IP Office 9.0.3

Using IP Office Customer Call Reporter

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Chapter 1. Introduction

1. Introduction

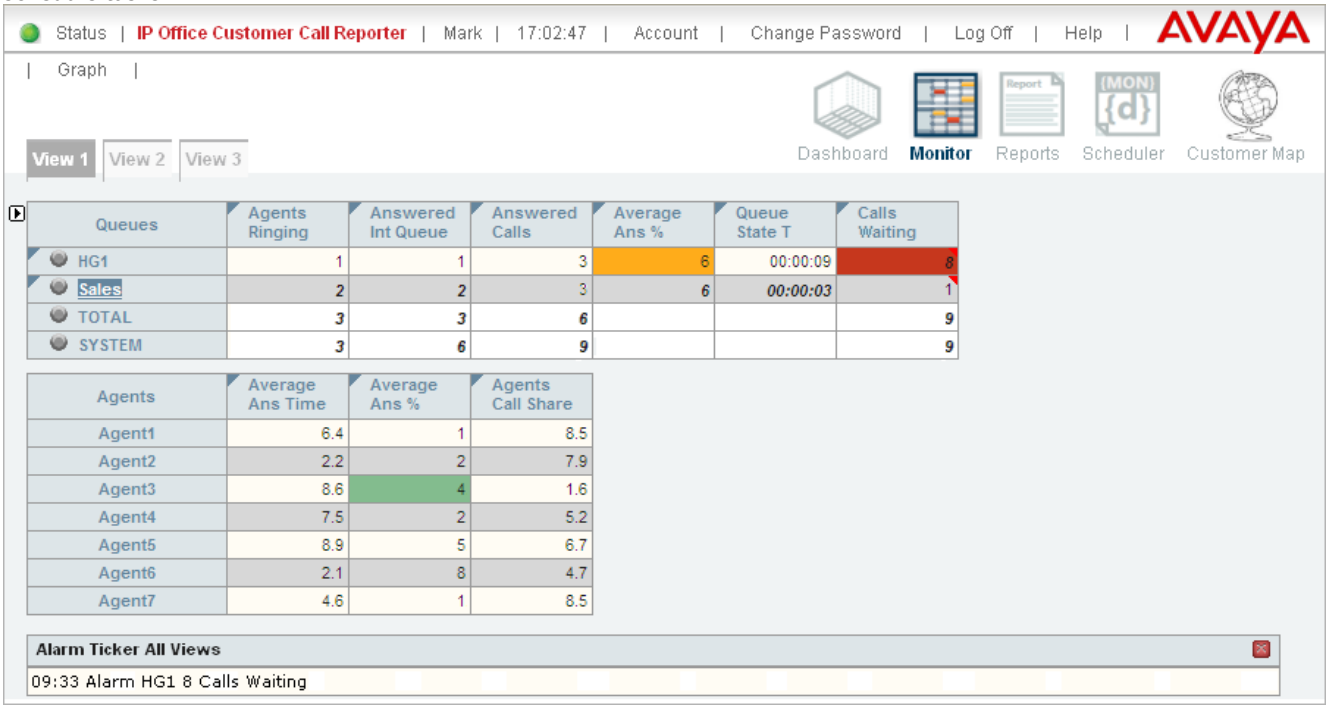
IP Office Customer Call Reporter is a call center reporting application for use with Avaya IP Office telephone systems. IP Office Customer Call Reporter can report on both individual call center 'agents' and on the queues (hunt groups) of which those agents are members. IP Office Customer Call Reporter provides both current and historical reports.

This document covers IP Office Customer Call Reporter version 9.0.

IP Office Customer Call Reporter is accessed through a web browser using a name and password to login. Those login details determine whether the IP Office Customer Call Reporter web client runs in agent, supervisor, administrator or wallboard mode.

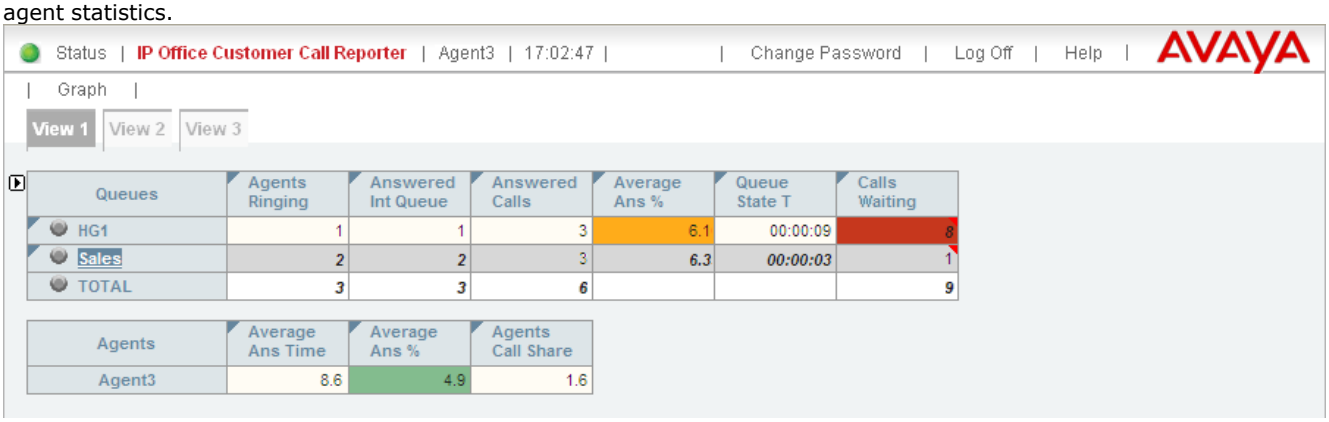
Supervisor Mode 23

This mode is used to create and manage 'views' of queue and agent statistics. Supervisors can also run reports and schedule tasks.



Agent Mode 133

This mode is used by individual agents. It displays their supervisor's view to them but adjusted to show only their own agent statistics.



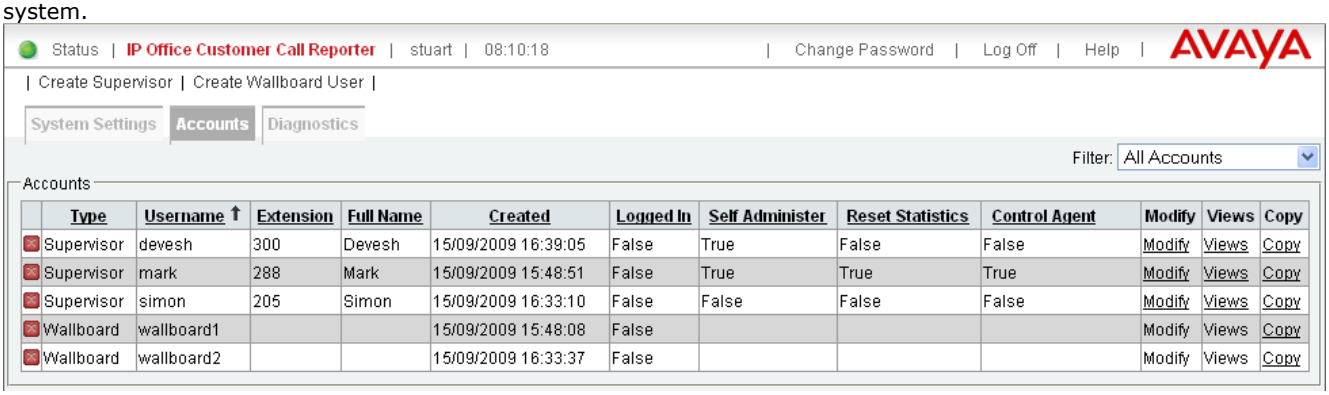
Wallboard Mode 147

This mode is used to display queue statistics as sets of values and graphs. It can also be used to display messages sent by supervisors and league tables of agent performance.



Administrator Mode 187

This mode is used by the IP Office Customer Call Reporter administrator to configure the IP Office Customer Call Reporter system.



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1.2 Key Terms

The following are the definitions for some of the key elements of IP Office Customer Call Reporter operation covered in this documentation. Additional definitions are included where appropriate. A full set of definitions is found in the Glossary/ Definitions 336 section.

Administrator

The administrator can amend IP Office Customer Call Reporter system preferences plus create and administer supervisor and wallboard accounts. That includes assigning which queues a supervisor can see or granting the supervisor self-administration rights to amend their own settings including queues.

The administrator does not have any views of call statistics. However they can setup and amend the views used by supervisors and their agents.

There is only one administrator account and only one person can log in as the administrator at any time.

Supervisor

Supervisors can create 105 and amend views 103 of the agent queues assigned to them. Those views are then viewable by the supervisor and the agents. Supervisors can also create reports 38 that they then either run manually 42 or that they schedule 45 to run automatically at regular intervals.

IP Office Customer Call Reporter supports up to 30 supervisors. However the maximum number of supervisors that can be logged in at any time is controlled by the number of available Supervisor licenses (each license enables a simultaneous Supervisor login and Wallboard login).

Agent

An agent is a user who handles calls to queues on the IP Office telephone system. Unlike general IP Office users they have been specifically configured as agents in the IP Office configuration. IP Office Customer Call Reporter supports up to 150 agents.

- To make and receive calls, the agent must login to a telephone on the IP Office telephone system. Note that T3 Series and T3 IP Series telephones are not currently supported.
- The agent's telephone status is recorded by IP Office Customer Call Reporter. For example when they logged in to a telephone, answer a call, log off, etc.
- The agents are also configured as members of queues and are then presented with call targeted to those queues. An agent can be a member of several queues.
- Using the web client, agents can see the same screen views as their supervisor. However, unlike the supervisor, the agents can only see their own statistics and for those queues to which they belong.

Queues

A queue is a hunt group configured for IP Office Customer Call Reporter operation. Calls to a queue are presented the first available agent 338 in the queue using a pattern set in the queue's configuration. If the call is not answered it is presented to the next available agent and so on until answered. The order in which the agents are used is set in it's configuration to one of the following orders: Collective 339, Collective Call Waiting 339, Sequential 345, Rotary 344, and Longest Waiting 340.

Statistics

IP Office Customer Call Reporter collects information about calls to queues and agents and stores this in its database. It also collects information about the current state of the queues and agents. Statistics based on this information are then used in web views and historical reports.

- Except where specifically indicated, usually by the term 'Non-Queue', all statistics relate to calls targeted to queues.
- Each statistic can only be added once within each view.
- Statistics are calculated values. They are affected by configurable settings on the particular view, wallboard or report such as whether to include or exclude internal calls. Those settings can be varied for each instance where a particular statistic is used.
  - The exception is statistics that use answer and lost calls thresholds values in their calculation. The same threshold values are used for all such statistics in the same view or wallboard display.
- The statistics value in views and wallboards can be manually reset when required by any supervisor for who the administrator 336 has enabled the Reset Statistics 111 option. Resetting the statistics affects the view and wallboard statistics for all supervisors and agents. It does not affect the statistics used for historical reports.
- The statistics in views are updated approximately every 2 seconds.

Monitor View

The term view is used for the first 3 tabs displayed to supervisors and agents. Each view consists of a table of queues and queue statistics. Clicking on any of the queue names will display an additional table of agent statistics for the agents in that queue. An alarm list or ticker can also be added to each view to show alarms and warnings for that view or all the supervisor's views. The views can be amended by the supervisor and administrator.

Agents are able to see the same views as their supervisor but cannot change the queues or statistics. The agent's version of the view will only show queues to which the agent belongs and their own agent details.

Wallboard

The IP Office Customer Call Reporter administrator can create wallboard accounts. When logged in with one of these accounts, the browser can be used to display queue statistics for any queues plus other information such as messages sent or scheduled by IP Office Customer Call Reporter supervisors.

IP Office Customer Call Reporter supports up to 30 wallboards. However the maximum number of wallboards that can be logged in at any time is controlled by the number of available Supervisor licenses (each license enables a simultaneous Supervisor login and Wallboard login).

1.3 Client Computer Requirements

Web Browser Requirements

IP Office Customer Call Reporter is designed and tested with the listed web browsers. If used with other any other browser a warning will be displayed but the access is allowed.

- **Google Chrome**
  To use Silverlight with Google Chrome additional options need to be enabled in the Chrome browser. If not enabled, Silverlight prompts for installation each time the browser is used. See Enabling Silverlight in Chrome 334.
- **Mozilla Firefox**
- **Internet Explorer 8 and 9**
- **Safari 6.0**

Operating System Requirements

Browser access for IP Office Customer Call Reporter is tested and supported on the following operating systems:

- **Windows XP Professional SP2**
- **Windows 7 Professional**
- **Windows 7 Enterprise**
- **Windows 7 Ultimate**

Note: Access from other operating systems is not precluded but has not been tested by Avaya and is therefore not supported by Avaya.

Required Browser Features

- JavaScript enabled.
- Pop-ups allowed. Required for graph and help windows.
- If audio for alarms has been enabled, an audio plug-in is required for user's browsers. Use Windows Media Player or Quick Time.
  - When using a browser other than Internet Explorer, the browser may require the addition of the Firefox Windows Media Play plug-in to support Windows Media Player. The Firefox Windows Media Play plug-in is available for download at http://port25.technet.com/pages/windows-media-player-firefox-plugin-download.aspx. Currently this plug-in can be used with the Google Chrome and Mozilla Firefox browsers.
- **Microsoft Silverlight**
  The IP Office Customer Call Reporter wallboard and customer map functions use Silverlight. When logging in at a computer without Silverlight installed, if the computer has access to the internet, you will be prompted to install Silverlight. If the computer does not have access to the internet, Silverlight must be installed manually. Full details of Silverlight and the browsers on which it is supported can be obtained at http://www.microsoft.com/silverlight.
  - **Chrome and Silverlight**
    To use Silverlight with Google Chrome additional options need to be enabled in the Chrome browser. If not enabled, Silverlight prompts for installation each time the browser is used. See Enabling Silverlight in Chrome 334.
  - For the display features to operate smoothly, especially when a large number of rapidly changing statistics are being displayed, use a dedicated graphics card in your computer rather than an integrated graphics card provided on the motherboard. The required minimum specification is a DirectX 9.0c or above compatible graphics card for GPU hardware acceleration via DirectDraw with 1GB or greater video memory. Support for 60Hz or greater refresh rate at the chosen resolution, for both card and monitor.

1.4 Account Settings

To login to IP Office Customer Call Reporter requires username, password, and e-mail address. The way these are assigned depends on the type of account.

Role	Username	Password	E-mail Address
Administrator	Created the first time IP Office Customer Call Reporter is run after installation.	Created the first time IP Office Customer Call Reporter is run after installation. You can then change it through the system settings 199 after logging in as administrator.	An address is entered during installation when the administrator account is first created. This address can be changed by after logging in by going to the System Settings 199 tab.
Supervisor	Created by the administrator when creating your supervisor account. If you also take calls on the telephone system, the administrator can configure it to match your IP Office username.	Set by the administrator when they create a supervisor account. The administrator can change supervisor passwords 191 if required. You can change it through your account details 129 after logging in.	Set by the administrator when they create your supervisor account. They can also change your address. You can change it through your account details 129 after logging in.
Agent	Your IP Office Customer Call Reporter username matches your username on the IP Office telephone system. This can be different from the name displayed on your telephone screen. Consult your supervisor, if you are unsure.	You will be requested to enter a password the first time you login. If you have an address already configured in the IP Office configuration that is shown as the default.	An address is requested by IP Office Customer Call Reporter when you first log in. If you already have an address set in the IP Office configuration, that address will be displayed by default.
Wallboard	Created by the administrator when they create the wallboard account.	Created by the administrator when they create the wallboard account.	No e-mail address is used for wallboard accounts.

1. E-mail addresses must be unique. IP Office Customer Call Reporter does not support two users having the same e-mail address. Users who have already logged in can set a new password using the Change Password 18 function. All users can request a new password by e-mail using the Forgotten Password 19 function if they have an e-mail address known to the IP Office Customer Call Reporter system.
2. Logging in multiple sessions using the same account will consume multiple licenses.
3. Usernames are not case sensitive. Passwords are case sensitive.

1.5 Logging In

This refers to logging in to the IP Office Customer Call Reporter web client, not to logging in to a telephone 138 to receive calls.

1. Using your browser, enter the path to the IP Office Customer Call Reporter web service - ***http://<server_path>/CCRWebClient***. The login window should be displayed.
2. Enter your **Username** and **Password**.
   - If you have forgotten your password but have an e-mail address set in IP Office Customer Call Reporter, click **Forgot Password** 19.
   - If you are an agent logging in for the first time leave the password field blank. You will be asked to set your password and e-mail address as part of the login.

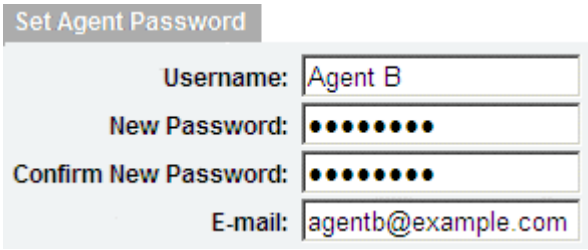


3. If you want the IP Office Customer Call Reporter web client to run in a different language, you can use the **Language** drop down to select a language from the list.

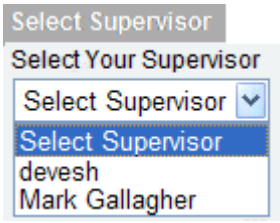
   Supported languages are ***Dutch***, ***English (UK)***, ***English (US)***, ***French***, ***German***, ***Italian***, ***Brazilian Portuguese***, ***Russian***, and ***Latin Spanish***. Some parts of customer call maps are third party components delivered over the internet and may run in different languages, for example, the zoom and pan controls.

4. Click **Login**.

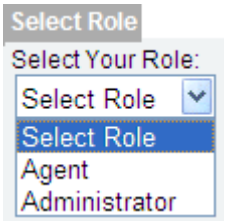
   - **Agent's First Time Login**
     If you are an agent logging in for the first time, the **Set Agent Password** window will be displayed. Enter a password of your choice and then click **OK**. Your unique e-mail address is also requested. Enter an e-mail address to be able to use the Forgot Password 19 feature.



   - **All Agent Logins**
     If multiple supervisors have been configured, agents need to indicate the supervisor they are working for.



   - **Multiple Role Login (Optional)**
     If your username is configured for more than one role 331, the **Select Role** window will be displayed. Select the required role and click **OK**.



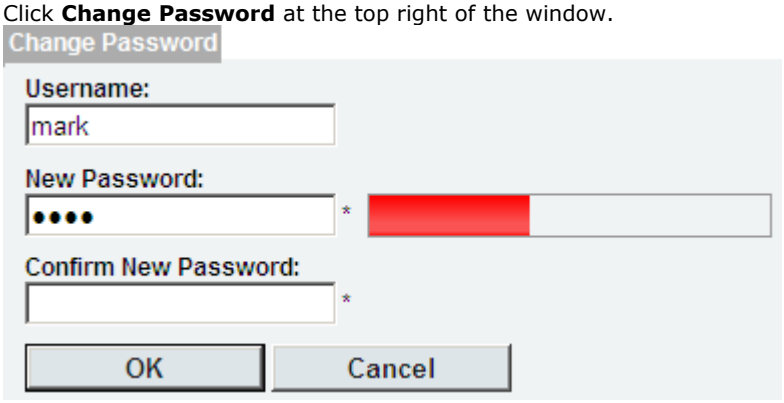
5. The web client will open in the appropriate mode: Agent 133, Supervisor 23 or Administrator 187.
   - You have three attempts to enter the correct password or username. If you fail to enter valid login details the login window will close and your account is locked for 5 minutes.
   - Logged in users who are inactive for more than a set time are automatically logged off. The default time is 30 minutes but this can be adjusted by the administrator.

1.6 Changing Your Password

The administrator, supervisors and agents who have logged in can select to change their password. This option is not available for wallboards.

To change your password

1. Log in to the client application using your current password.
2. Click **Change Password** at the top right of the window.



3. Enter your details:
   - **Username**
     The name you use when you login to the IP Office Customer Call Reporter web client. This cannot be changed.
   - **New Password**
     Enter your new password.
   - **Confirm New Password**
     Re-enter your new password. Remember that passwords are case sensitive.
4. Click **OK**. You have changed your password.
5. Click any of the tabs, including the current one, to return to normal viewing.

1.7 Forgotten Passwords

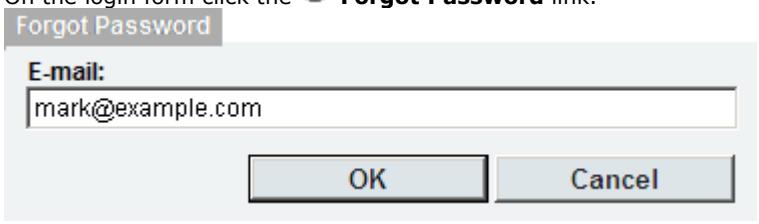
If you have forgotten your password, you can request a new password to be sent to you by e-mail. This option is not available for wallboards.

How is my e-mail address set for IP Office Customer Call Reporter?

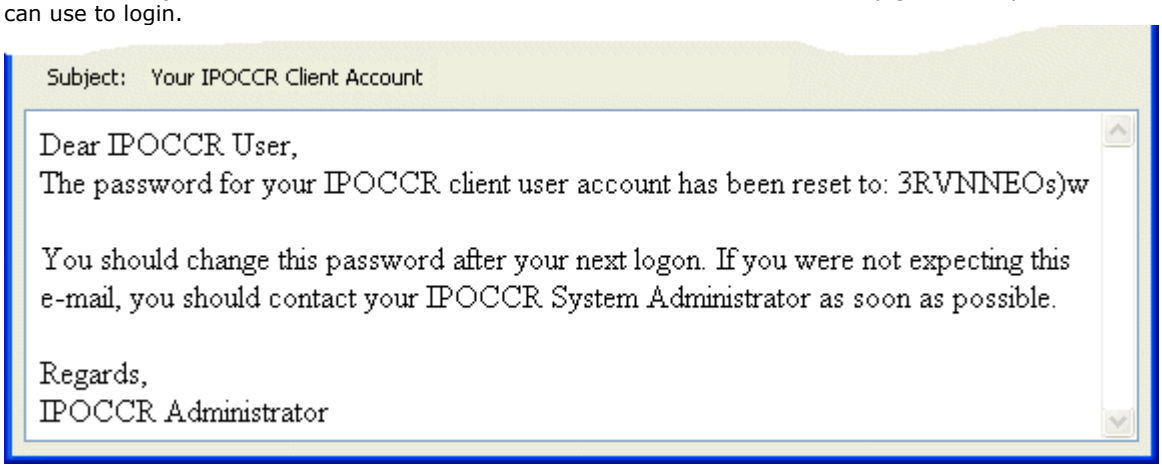
- **Agent** 336
  Your e-mail address is requested by IP Office Customer Call Reporter the first time you log in. If you already have an e-mail address set in the IP Office telephone system, that address is displayed by default.
- **Supervisor** 345
  When the administrator creates or amends a supervisor account 191 they can enter a unique e-mail address. Supervisors can also check and change their e-mail address when logged in by clicking on **Account** 129.
- **Administrator** 336
  The administrator's e-mail address is entered when IP Office Customer Call Reporter is first run. When logged in as the administrator, the e-mail address can be checked and changed through the **System Settings** 199 tab.

To request a new password

1. Using your web browser access the web address for your IP Office Customer Call Reporter system.
2. On the login form click the **Forgot Password** link.



3. Enter your e-mail address.
4. Click **OK** to request a new password e-mail. You are returned to the main IP Office Customer Call Reporter web client **Login Window** 17 and an e-mail is sent to your e-mail address.
5. The e-mail subject will be **Your IPOCCR Client Account**. It contains a randomly generated password that you can use to login.



Example of forgotten password email.

6. You can then use the **Change Password** 18 function after you have logged in.

1.8 Additional Help

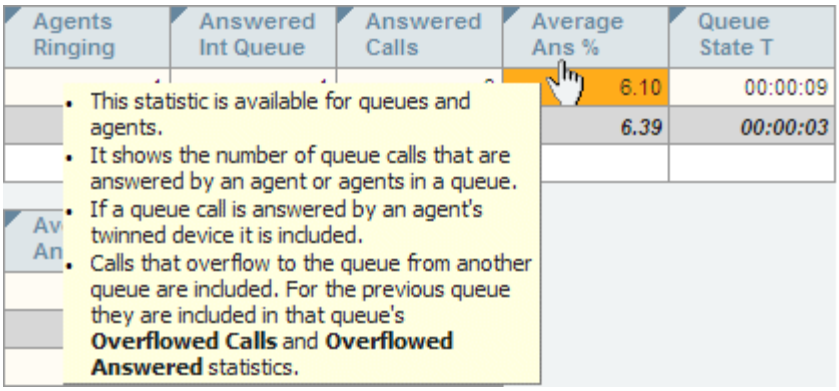
Except for wallboard views, the following methods can be used to access help:

Viewing Help

Click **Help** to access this document as embedded help from IP Office Customer Call Reporter. The help will open in a separate browser window. Help is supported in ***English***, ***French***, ***Italian***, ***German***, ***Russian***, ***Brazilian Portuguese***, and ***Latin Spanish***. For IP Office Customer Call Reporter running in any other languages, the help will be displayed in ***English***.

Popup Help Tooltips

For each of the different possible statistics, popup tooltip help is provided. To access this place the cursor over the statistic name (the cursor should change to a hand icon). After a short delay the popup help will be displayed. Help is supported in the ***English***, ***French***, ***Italian***, ***German***, ***Russian***, ***Brazilian Portuguese***, and ***Latin Spanish*** languages. For IP Office Customer Call Reporter running in any other languages, the help will be displayed in ***English***.



- The use of help tooltips is enabled or disabled through the **Help Tooltips Enabled** within the Supervisor account settings 129.

Statistic Help

In addition to the popup help above, more detailed help on each statistic is available. Click the statistic name at the top of the column and select **Help** from the menu that is displayed.

Additional Information

Additional help and information on IP Office Customer Call Reporter and IP Office can also be found at the Avaya support web site (http://support.avaya.com) and the IP Office Knowledge Base web site (http://marketingtools.avaya.com/knowledgebase).

1.9 Logging Off

Once you have started the IP Office Customer Call Reporter web client you can exit at any time. It is important that you exit correctly rather than just closing the web browser. If you try to log in using another computer without logging off from the current one, you will need to wait for the previous session to time out (during which time a supervisor or agent license will also continue to be in use).

IP Office Customer Call Reporter wallboards do not have a log off option. The wallboard account is logged off by closing the browser.

To exit

1. Click **Log Off** to log off from IP Office Customer Call Reporter. You are returned to the login 17 window.
   - If using the Customer Map, click .
2. This action logs you off the IP Office Customer Call Reporter. For agents, it does not log you off your current telephone extension. See Logging Out 140.

1.10 New in 9.0

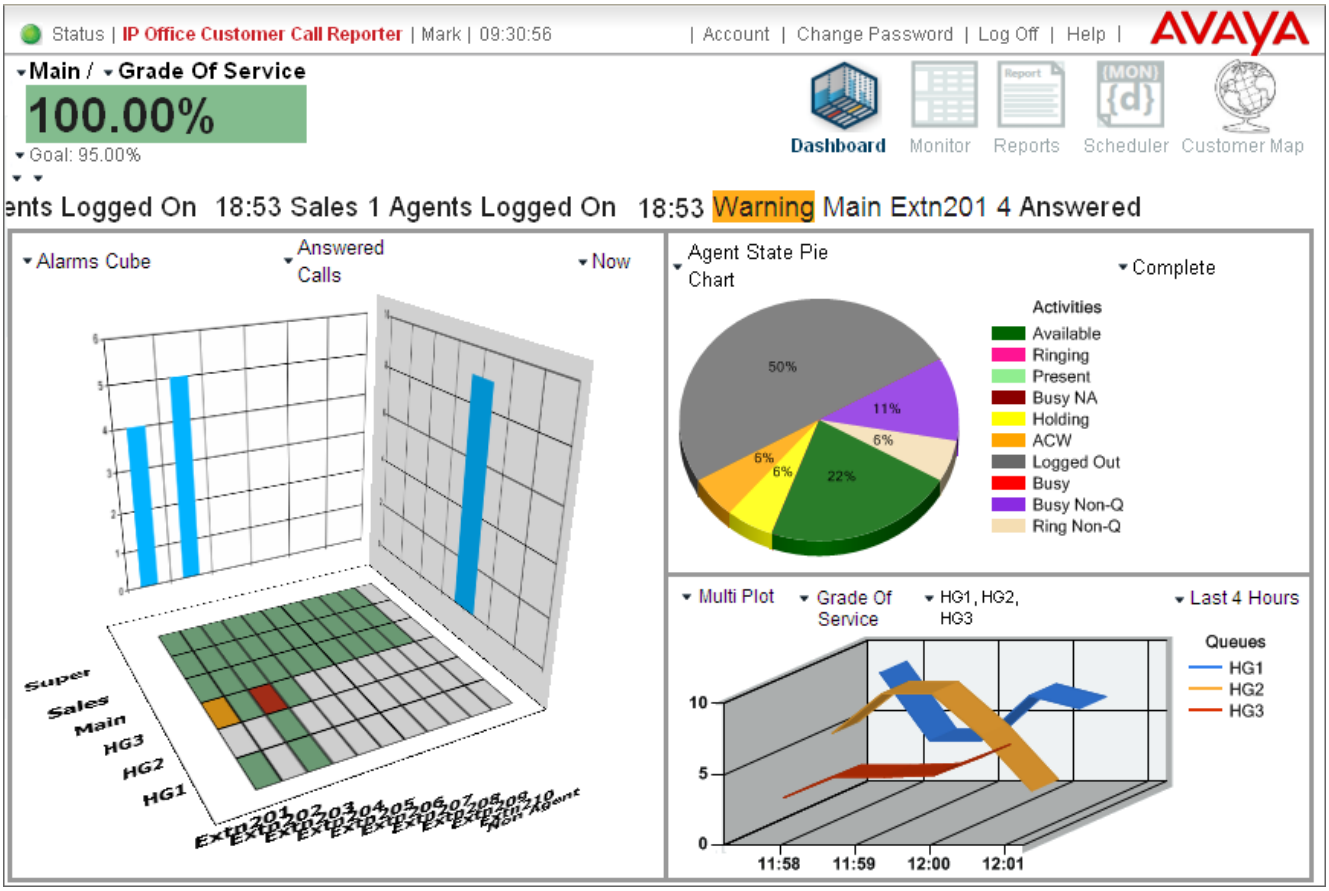
- **Changes to Call Summary Report**
  The Call Summary Report 59 is now divided into three sections. The first section displays the summary of the unique customer calls. The second section displays the summary of the handled calls and the sub-categories: answered calls, lost calls, overflowed answered, overflowed lost, routed to voicemail, and routed to other. The last section displays the summary of the transferred calls, no answer calls, average answer percentage, average answer time, average abandon time, and grade of service. The section-wise division is also visible in all the exported formats except for the ***Microsoft Excel (97-2003) Data-Only***, ***Microsoft Word (1997-2003) - Editable***, and ***XML*** formats.
  - A **Handled Calls** has been added. This displays the sum of **Answered Calls**, **Lost Calls**, **Overflowed Answered** , **Overflowed Lost**, **Routed To Voicemail**, and **Routed To Other**.
  - A **Routed To Other** column has been added. This displays the data captured in the **Routed to Other** real-time statistic.
  - A **Transferred Calls** column has been added. This displays the data captured in the **Transferred** real-time statistic.
- **Changes to Call Details Report**
  The **Lost** status has been renamed **Abandoned** to distinguish between the **Lost** calls and the **Overflowed Lost** calls for the report target **Agent**. The **Lost Calls** filter is correspondingly renamed **Abandoned**.
- **Changes to Trace Report**
  The **Incoming** event is renamed **Incoming External**. The **Queue Disabled** event is renamed **Disabled from Queue** .
- **Changes to Agent Time Card Report**
  The **Answered Ext Non-Q** field is added to the **Calls** row to display those calls that are direct calls to agents and are answered.
- **Changes to Statistics**
  The **Lost Calls** statistic now includes those direct calls to agents that are lost.
- **Custom Reporting Wizard**
  Now, you can use a wizard 69 included in IP Office Customer Call Reporter to create new custom report types and to edit the existing custom report types that are created using the wizard.
- **Wallboard Enhancements**
  - You can now enable different color schemes for statistic cells, grouped statistic cells, graph cells, agent monitor table, queue monitor table, message bar, and league tables by checking the **Per Cell** 169 check box.
  - You can now add an **Agent Monitor Table** that displays the agent states and the time spent in the current state. If you check the **Per Cell** 169 check box, the agent states are displayed using the same color scheme as on the dashboard.
  - The **Monitor Table** element is renamed **Queue Monitor Table** to distinguish it from the **Agent Monitor Table** element.

Chapter 2. Supervisor

2. Supervisor

Supervisors can create [105] and amend views [103] of the agent queues assigned to them. Those views are then viewable by the supervisor and the agents. Supervisors can also create reports [38] that they then either run manually [42] or that they schedule [45] to run automatically at regular intervals.

IP Office Customer Call Reporter supports up to 30 supervisors. However the maximum number of supervisors that can be logged in at any time is controlled by the number of available Supervisor licenses (each license enables a simultaneous Supervisor login and Wallboard login).





- **Dashboard** [26]
  This is the default page shown when a supervisor logs in. It shows information graphs for selected queues, agents and statistics.



- **Monitor** [105]
  Each supervisor has 3 information views, each showing a table of different of queue and agent statistics. These views are initially created by the administrator [195] but can be adjusted by the supervisor. By default the views are called ***View 1***, ***View 2*** and ***View 3*** but they can be renamed through the supervisor's account settings [129].



- **Reports** [38]
  Create and save report templates for both manual and automatic reports. For manual reports the report is run from this tab after having selected the required template.



- **Scheduler** [45]
  Schedule events such as saved reports, wallboard messages and general housekeeping tasks.



- **Customer Map** [113]
  The customer displays customer calls for a selected period on a map that plots the position of customers based on calling number information.

Comments on this document? infodev@avaya.com

As a Supervisor ...		
• View my account details 129	• Use the dashboard 26	• Backup the Database 123
Use Monitor Views		
• Edit my monitor views. 105 • Sort on a statistic 103 • Remove a queue from a view 103 • Change the column order 103	• Change the queue rows order 103 • View Agent details 103 • Understand the statistic colors 108 • Use alarms and warnings 109	• Change an agents status 110 • Reset the statistics manually 111 • Reset the statistics automatically 123 • Graph a statistic 112
Run Reports		
• Create a report template 38 • Run a manual report 42	• Schedule a report 45 • Copy a report template 47	• Delete a report 48 • Use custom reports 66
Schedule events		
• Schedule a report 125 • Reset the statistics automatically 123	• Backup the database 123	• Send Wallboard messages 127.
Use the Customer Map		
• View the customer map 113 • Understand the pin colors 115	• Select the map type 118 • Map historical calls 119	• Add a map overlay 120

The Status Bar

Status 199	This button indicates the overall status of IP Office Customer Call Reporter. Clicking on the icon displays a **System Settings** 199 tab which shows the status of the individual IP Office Customer Call Reporter components. • **Green:** IP Office Customer Call Reporter is running. • **Yellow:** Some parts of IP Office Customer Call Reporter are still in the process of starting. • **Red:** There may be a problem in IP Office Customer Call Reporter.
Change Password 18	While logged in to IP Office Customer Call Reporter, you can change your password.
Log Off 21	Close the IP Office Customer Call Reporter connection. It is important to close a connection using this control rather than just closing the browser or tab within the browser. Failing to use this button will cause a 5 minute delay before you can log in again on another computer.
Help 20	Access this documentation in online format. Where possible the appropriate page for the current IP Office Customer Call Reporter screen is displayed.
Account 129	This tab displays details of the supervisor's account. You can change these details that include the supervisor password and e-mail address.

2.1 Logging In

This refers to logging in to the IP Office Customer Call Reporter web client, not to logging in to a telephone 138 to receive calls.

1. Using your browser, enter the path to the IP Office Customer Call Reporter web service - ***http://<server_path>/CCRWebClient***. The login window should be displayed.
2. Enter your **Username** and **Password**.
   - If you have forgotten your password but have an e-mail address set in IP Office Customer Call Reporter, click **Forgot Password** 19.
   - If you are an agent logging in for the first time leave the password field blank. You will be asked to set your password and e-mail address as part of the login.

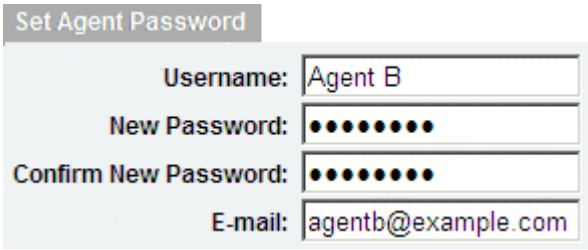


3. If you want the IP Office Customer Call Reporter web client to run in a different language, you can use the **Language** drop down to select a language from the list.

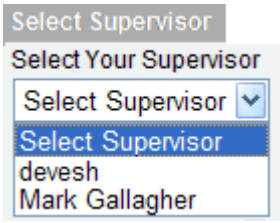
   Supported languages are ***Dutch***, ***English (UK)***, ***English (US)***, ***French***, ***German***, ***Italian***, ***Brazilian Portuguese***, ***Russian***, and ***Latin Spanish***. Some parts of customer call maps are third party components delivered over the internet and may run in different languages, for example, the zoom and pan controls.

4. Click **Login**.

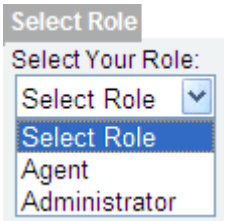
   - **Agent's First Time Login**
     If you are an agent logging in for the first time, the **Set Agent Password** window will be displayed. Enter a password of your choice and then click **OK**. Your unique e-mail address is also requested. Enter an e-mail address to be able to use the Forgot Password 19 feature.



   - **All Agent Logins**
     If multiple supervisors have been configured, agents need to indicate the supervisor they are working for.



   - **Multiple Role Login (Optional)**
     If your username is configured for more than one role 331, the **Select Role** window will be displayed. Select the required role and click **OK**.

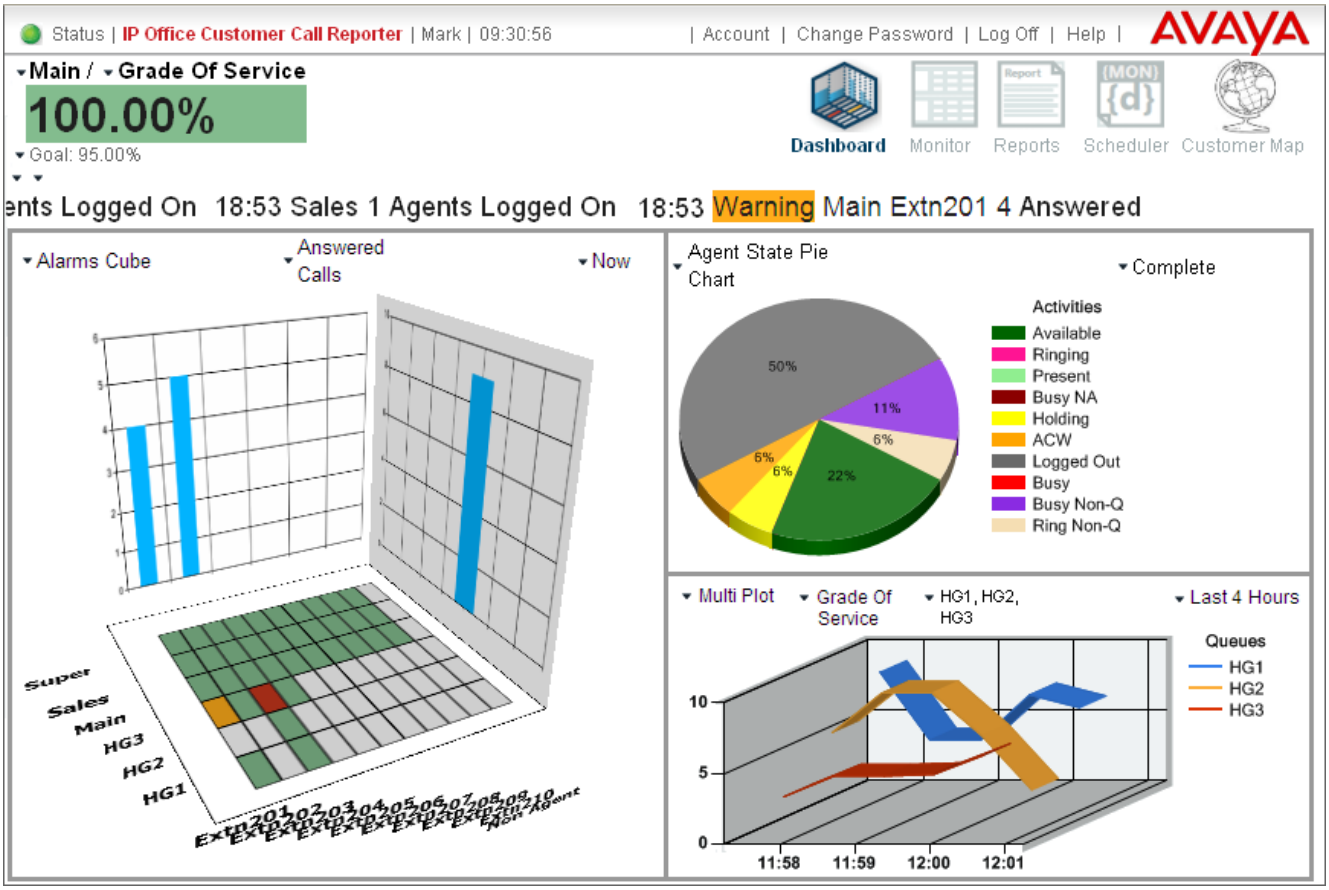


5. The web client will open in the appropriate mode: Agent 133, Supervisor 23 or Administrator 187.
   - You have three attempts to enter the correct password or username. If you fail to enter valid login details the login window will close and your account is locked for 5 minutes.
   - Logged in users who are inactive for more than a set time are automatically logged off. The default time is 30 minutes but this can be adjusted by the administrator.

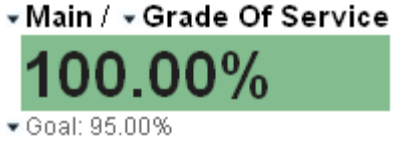
2.2 Dashboard

For a supervisor account, this is the default page shown after logging in. It consists of a number of adjust information elements; a dashboard goal, a statistics information ticker and a set of graph display panels. The elements are described below.

Items in the dashboard are updated approximately every 10 seconds.



Dashboard Goal

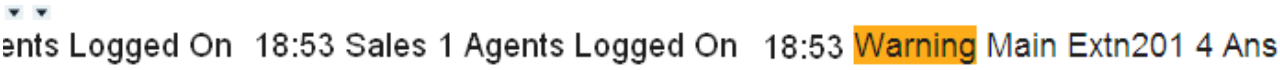


This is displayed at the top left of the dashboard. The goal is based on a selected queue and either its **Average Speed of Answer**, **Grade of Service** or **Agent Productivity** statistic. Instead of a specific queue, ***SYSTEM*** can be selected for all queues. The background color of the goal is changed from red to green when the goal target is met or exceeded.

By clicking on the ▼ icons next to each part of the dashboard goal, you can select the queue or ***SYSTEM***, the queue statistic and the target value.

Dashboard Warnings, Alarms and Information Ticker

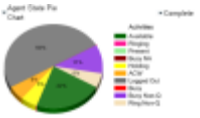
The area just above the display panels is used to show an all views alarms and warnings ticker. You can also configure it to show statistics information for selected queues and queue statistics. The option ***SYSTEM*** can be selected to show values for the whole system.



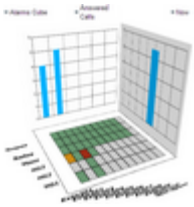
The alarms and warnings in the ticker match those configured in your monitor views. The general information included in the ticker can be adjusted by clicking on the ▼ icons. Use these to select which queues and queue statistics are to be included.

Dashboard Plot Panels

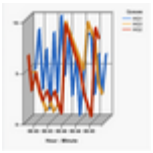
The main part of the dashboard is divided into a large display panel and two small display panels. Each panel has a header row of ▼ icons which can be clicked to select the type of item displayed in the panel and to then adjust its settings. The options are:



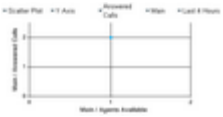
- **Agent State Pie Chart** 28
  This is a 3D effect pie chart of the agent states for all agents on the system. It can be set to show either the current states or it can summarize the time in each state for a selected historical time period.



- **Alarms Cube** 29
  This is a 3D cube that plots a selected statistic value for the system queues on one wall, for the agents in those queues on the other wall and for agent alarms and warnings on the base.



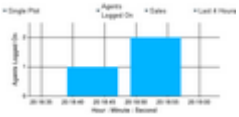
- **Multi Plot Graph** 30
  This is a 3D plot of a queue statistic over time for multiple selected queues.



- **Scatter Plot** 31
  This 2D graph plots two statistics for two queues over a period of time. Points are plotted using one statistic for the X axis value and the other statistic for the Y-axis value.



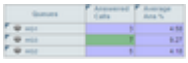
- **Single Pie** 32
  This pie chart shows each queue's share of the total for a selected queue statistic.



- **Single Plot Graph** 33
  This is a 2D graph of a single queue statistic for a selected queue over time.



- **Statistics Cube** 34
  This is a 3D plot of 3 statistics against each other. It can plot either points representing combinations of the values or a plane joining the value combinations.



- **Statistics Table** 35
  This is the queue statistics table repeating the queues and queue statistics settings from one of the monitor views. The table cannot be adjusted directly, that must be done through the matching monitor view.

Dashboard Queues

The queues available for display in the dashboard are those allocated in your supervisor account settings 129. In addition, you can select **SYSTEM** with many features for an overall view of all queues, not just your own. However some statistics 206 do not have a SYSTEM value and will return a zero value if selected in combination with **SYSTEM** rather than an individual queue.

Dashboard Statistics

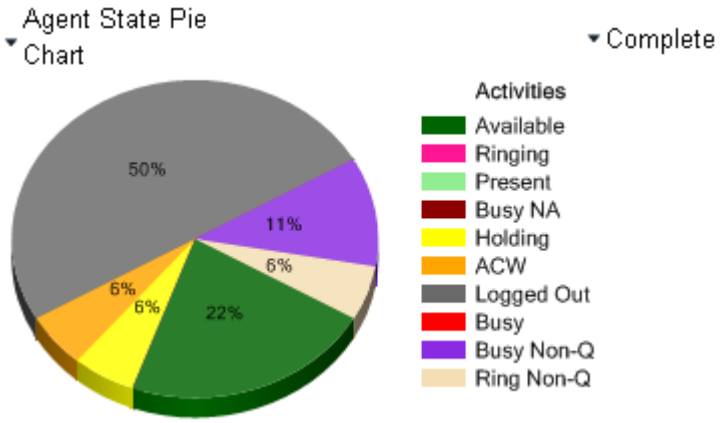
Use the panels to select statistics that each item displays. For all statistics, the call scope includes both internal and external calls. This cannot be changed.

If a statistic that relies on thresholds for its calculation is selected for display (Agent Productivity 210, Average Answer % 229 or Grade of Service 238), the thresholds is taken from those of the same statistic in the supervisor's first view. The thresholds cannot be changed through the dashboard.

The time period selectable for each display is ***Now***, ***Last 4 Hours***, ***Last Day***, ***Last 2 Days***, ***Last 3 Days***, ***Last Week***, ***Last 2 Weeks***, ***Last Month***, or ***Complete***. However, for some items, the selectable time is limited to ***Now*** and ***Complete***. ***Complete*** displays the proportion of time that the agents spent in that state since the dashboard view was started.

- Note that the dashboard uses realtime statistics, so any data before the last manual reset 111 or automatic reset 123 of realtime statistics are not shown regardless of the time range setting.

2.2.1 Agent State Pie

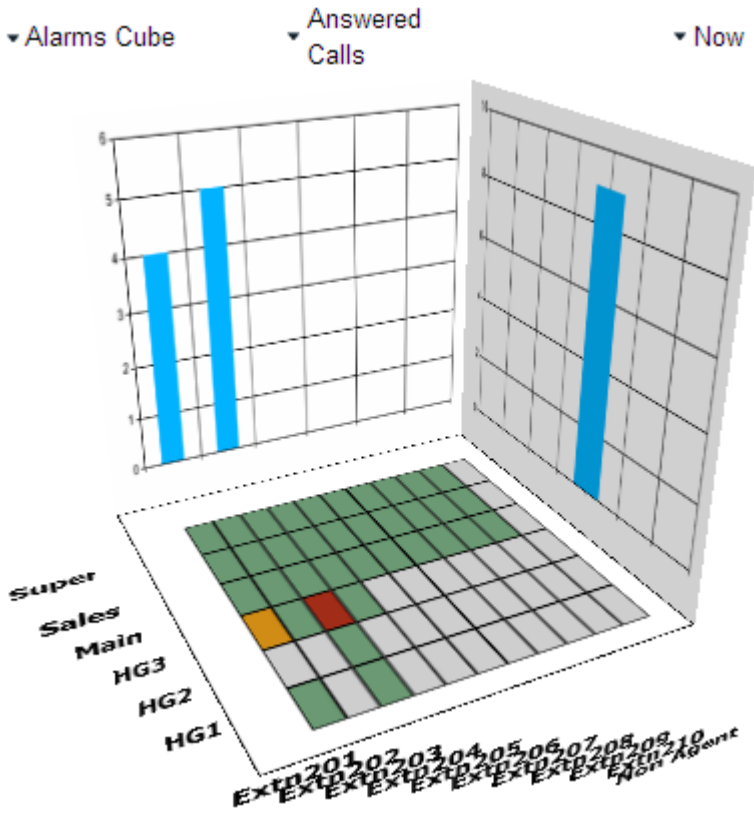


This is a pie chart of the agent states for all agents (equivalent to the Agent Stat (System) 215 statistic). It can be set to show either the current states or it can summarize the time in each state since dashboard was displayed.

- **Type: *Agent State Pie***
- **Time Range**
  Either ***Now*** or ***Complete***. ***Complete*** show the proportion of time the agents spent in that state since the dashboard view was started.

2.2.2 Alarms Cube

This is a 3D cube that plots a selected statistic value for all the system queues and agents. You can select only those statistics that support alarms and are supported by both queues and agents.



The statistic values for the queues are shown on the right hand wall. The statistic values for the agents are shown on the left hand wall. The base is used to shows agent alarms and warnings for the statistic.



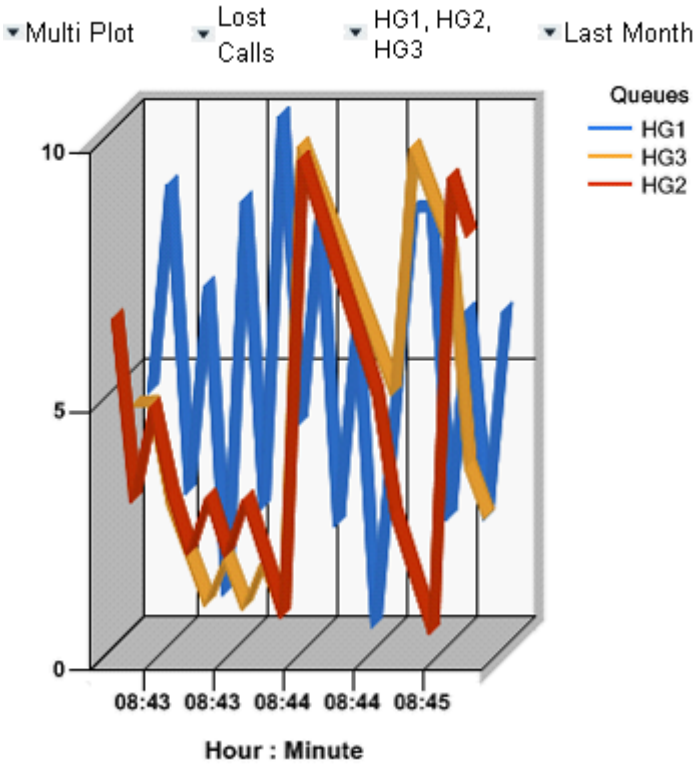
The alarms and warnings use the settings as configured through the first monitor view. They cannot be configured through the alarm cube. The colors used on the base of the alarms cube are shown below. The alarm, warning and acknowledged colors are removed when the statistic value returns to below the threshold.

Enabled / Cleared (Green)	**Warning** (Orange)	**Alarm** (Red)	**Acknowledged** (Blue)

- **Type: *Alarms Cube***
- **Statistic**
  The statistic to plot. This is limited to only those statistics that support alarms and are supported by both queues and agents.
  Agent Productivity 210, Answered Calls 224, Answered Internal (Queue) 228, Average Answer % 229, Average Answer Time 231, Lost Calls 243, No Answer 246, Presented Calls 253, Routed to Other 257, Routed to Voicemail 258, Talk Average 259, Talk Outbound Average 264, and Transferred 266.
  - Note that the dashboard uses realtime statistics, so any data before the last manual reset 111 or automatic reset 123 of realtime statistics are not shown regardless of the time range setting.
- **Time Range**
  The time period is fixed to **Now**.

2.2.3 Multi Plot Graph

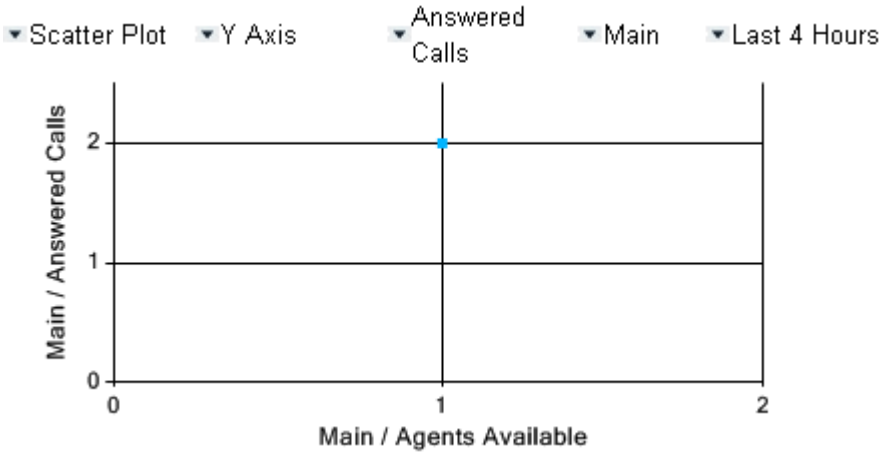
This is a 3D plots of a selected queue statistic over time for multiple selected queues. By default the first 2 queues are shown but you can select which queues to include. To change the type of graph, click the current graph. The options are: straight line graph, curved line graph and point graph.



- **Type:** ***Multi Plot***
- **Statistic**
  The queue statistic to plot for the selected queues.
  Agent Productivity 210, Agents ACW 218, Agents Available 219, Agents Logged On 221, Agents Present 222, Agents Ringing 223, Answered Calls 224, Answered Internal (Queue) 228, Average Answer % 229, Average Answer Time 231, Average Wait Time 233, Busy Not Available 234, Call Waiting 235, Current Wait Time 237, Grade of Service 238, Longest Wait Time 241, Lost Calls 243, New Messages 245, No Answer 246, Overflowed Answered 249, Overflowed Calls 247, Overflowed Calls Waiting 250, Overflowed Lost 252, Presented Calls 253, Routed to Other 257, Routed to Voicemail 258, Talk Average 259, Talk Inbound 260, Talk Inbound Average 261, Talk Internal 262, Talk Outbound 263, Talk Outbound Average 264, Talk Total 265 and Transferred 266.
  - Note that the dashboard uses realtime statistics, so any data before the last manual reset 111 or automatic reset 123 of realtime statistics are not shown regardless of the time range setting.
- **Queue**
  Use to select which queues to display. ***SYSTEM*** can be selected for all queues.
- **Time Range**
  The options are ***Last 4 Hours***, ***Last Day***, ***Last 2 Days***, ***Last 3 Days***, ***Last Week***, ***Last 2 Weeks*** or ***Last Month***. Note that the dashboard uses realtime statistics, so any data before the last reset 111 is not shown.

2.2.4 Scatter Plot

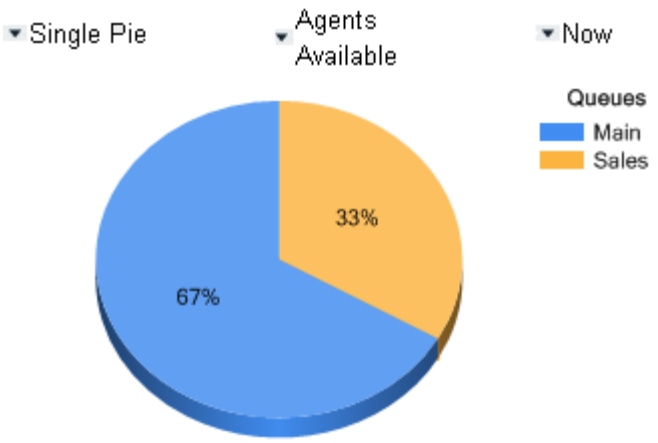
This 2D graph plots two statistics for two queues over a period of time. Points are plotted using one statistic for the X axis value and the other statistic for the Y-axis value.



- **Type: *Scatter Plot***
- **Axis**
  Select ***X Axis*** or ***Y Axis*** to then adjust which queue and queue statistic is plotted on that axis.
- **Statistic**
  The queue statistic to plot on the currently selected axis.
  Agent Productivity 210, Agents ACW 218, Agents Available 219, Agents Logged On 221, Agents Present 222, Agents Ringing 223, Answered Calls 224, Answered Internal (Queue) 228, Average Answer % 229, Average Answer Time 231, Average Wait Time 233, Busy Not Available 234, Call Waiting 235, Current Wait Time 237, Grade of Service 238, Longest Wait Time 241, Lost Calls 243, New Messages 245, No Answer 246, Overflowed Answered 249, Overflowed Calls 247, Overflowed Calls Waiting 250, Overflowed Lost 252, Presented Calls 253, Routed to Other 257, Routed to Voicemail 258, Talk Average 259, Talk Inbound 260, Talk Inbound Average 261, Talk Internal 262, Talk Outbound 263, Talk Outbound Average 264, Talk Total 265 and Transferred 266.
  - Note that the dashboard uses realtime statistics, so any data before the last manual reset 111 or automatic reset 123 of realtime statistics are not shown regardless of the time range setting.
- **Queue**
  The queue for which the statistic is being plotted on the currently selected axis. ***SYSTEM*** can be selected for all queues.
- **Time Range**
  The options are ***Last 4 Hours***, ***Last Day***, ***Last 2 Days***, ***Last 3 Days***, ***Last Week***, ***Last 2 Weeks*** or ***Last Month***. Note that the dashboard uses realtime statistics, so any data before the last reset 111 is not shown.

2.2.5 Single Pie

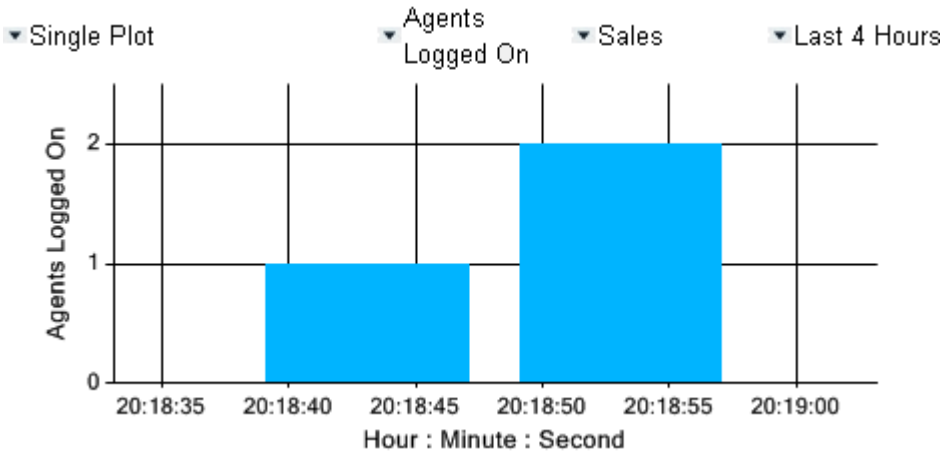
This is a 3D effect pie chart which shows each queue's share of the total for a selected queue statistic.



- **Type: *Single Pie***
- **Statistic**
  The queue statistic used for the comparison.
  Agent Productivity 216, Agents ACW 218, Agents Available 219, Agents Logged On 221, Agents Present 222, Agents Ringing 223, Answered Calls 224, Answered Internal (Queue) 228, Average Answer % 229, Average Answer Time 231, Average Wait Time 233, Busy Not Available 234, Call Waiting 235, Current Wait Time 237, Grade of Service 238, Longest Wait Time 241, Lost Calls 243, New Messages 245, No Answer 246, Overflowed Answered 249, Overflowed Calls 247, Overflowed Calls Waiting 250, Overflowed Lost 252, Presented Calls 253, Routed to Other 257, Routed to Voicemail 258, Talk Average 259, Talk Inbound 260, Talk Inbound Average 261, Talk Internal 262, Talk Outbound 263, Talk Outbound Average 264, Talk Total 265 and Transferred 266.
  - Note that the dashboard uses realtime statistics, so any data before the last manual reset 111 or automatic reset 123 of realtime statistics are not shown regardless of the time range setting.
- **Time Range**
  The time period is fixed to **Now**.

2.2.6 Single Plot Graph

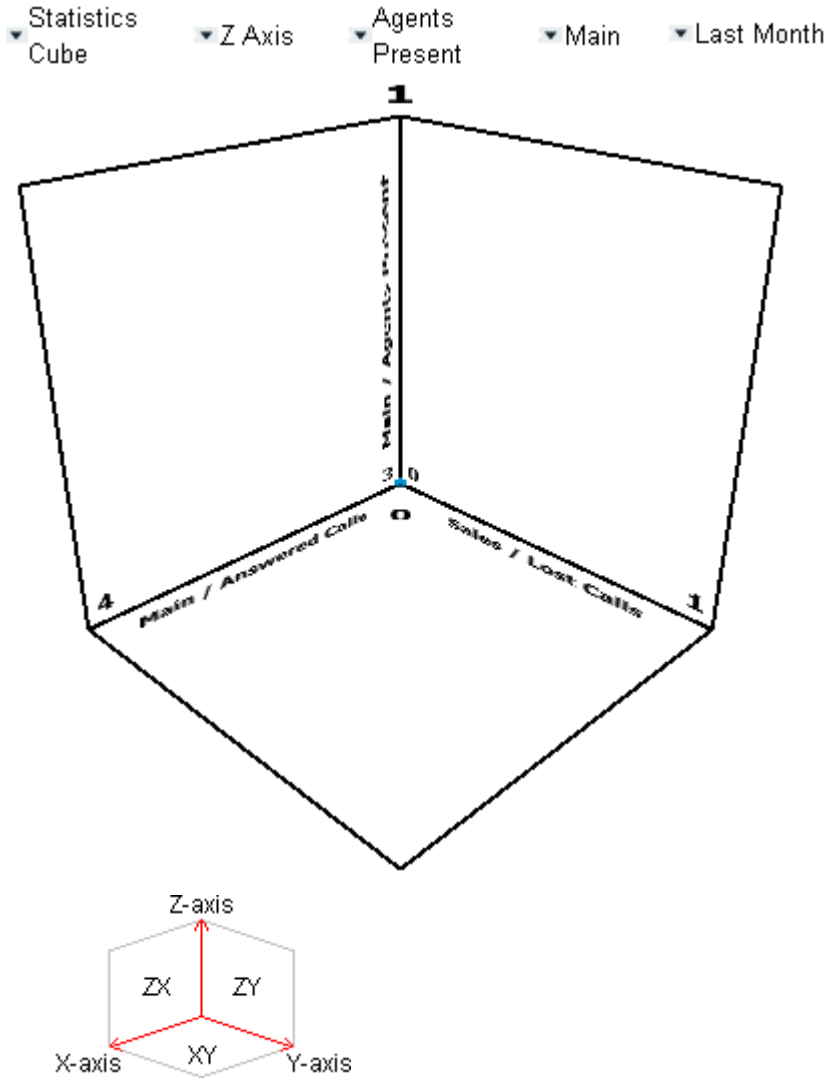
This is a 2D graph of a single queue statistic for a selected queue over time. To change the type of graph, click the current graph. The options are: column bar graph, row bar graph, straight line graph, area graph, curved line graph and point graph.



- **Type: *Single Plot Graph***
- **Statistic**
  The queue statistic to plot. Supported statistics are:
  Agent Productivity 210, Agents ACW 218, Agents Available 219, Agents Logged On 221, Agents Present 222, Agents Ringing 223, Answered Calls 224, Answered Internal (Queue) 228, Average Answer % 229, Average Answer Time 231, Average Wait Time 233, Busy Not Available 234, Call Waiting 235, Current Wait Time 237, Grade of Service 238, Longest Wait Time 241, Lost Calls 243, New Messages 245, No Answer 246, Overflowed Answered 249, Overflowed Calls 247, Overflowed Calls Waiting 250, Overflowed Lost 252, Presented Calls 253, Routed to Other 257, Routed to Voicemail 258, Talk Average 259, Talk Inbound 260, Talk Inbound Average 261, Talk Internal 262, Talk Outbound 263, Talk Outbound Average 264, Talk Total 265 and Transferred 266.
  - Note that the dashboard uses realtime statistics, so any data before the last manual reset 111 or automatic reset 123 of realtime statistics are not shown regardless of the time range setting.
- **Queue**
  The queue for which the statistic is plotted. ***SYSTEM*** can be selected for all queues.
- **Time Range**
  The options are ***Last 4 Hours***, ***Last Day***, ***Last 2 Days***, ***Last 3 Days***, ***Last Week***, ***Last 2 Weeks*** or ***Last Month***. Note that the dashboard uses realtime statistics, so any data before the last reset 111 is not shown.

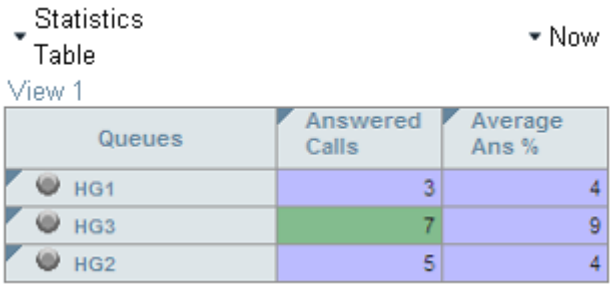
2.2.7 Statistics Cube

This is a 3D cube that plots the values of three numeric statistics, each configurable for a different queue and queue statistic. The points formed by each value pair (xy, xz, zy) are used to plots either a set of points or a plane. To switch between the two display modes, click the graph.



- **Type: *Statistics Cube***
- **Axis**
  Select ***X Axis***, ***Y Axis*** or ***Z Axis*** to then adjust which queue and queue statistic are plotted on that axis.
- **Statistic**
  The queue statistic to plot on the currently selected axis.
  Agent Productivity 216, Agents ACW 218, Agents Available 219, Agents Logged On 221, Agents Present 222, Agents Ringing 223, Answered Calls 224, Answered Internal (Queue) 228, Average Answer % 229, Average Answer Time 231, Average Wait Time 233, Busy Not Available 234, Call Waiting 235, Current Wait Time 237, Grade of Service 238, Longest Wait Time 241, Lost Calls 243, New Messages 245, No Answer 246, Overflowed Answered 249, Overflowed Calls 247, Overflowed Calls Waiting 250, Overflowed Lost 252, Presented Calls 253, Routed to Other 257, Routed to Voicemail 258, Talk Average 259, Talk Inbound 260, Talk Inbound Average 261, Talk Internal 262, Talk Outbound 263, Talk Outbound Average 264, Talk Total 265 and Transferred 266.
  - Note that the dashboard uses realtime statistics, so any data before the last manual reset 111 or automatic reset 123 of realtime statistics are not shown regardless of the time range setting.
- **Queue**
  The queue for which the statistic is being plotted on the currently selected axis. ***SYSTEM*** can be selected for all queues.
- **Time Range**
  The options are ***Last 4 Hours***, ***Last Day***, ***Last 2 Days***, ***Last 3 Days***, ***Last Week***, ***Last 2 Weeks*** or ***Last Month*** . Note that the dashboard uses realtime statistics, so any data before the last reset 111 is not shown.

2.2.8 Statistics Table



This is the queue statistics table repeating the queues and statistics settings from one of your monitor views 102. To switch to another view, click the view name shown above the table.

The table cannot be adjusted directly, that must be done through the matching view 105. However you can click a statistic to acknowledge an alarm or warning.

Scroll bars are shown if the table does not fit the display panel. Typically up to 4 queue statistics fit horizontally without the need of the scroll bar. Vertically the display panel can show approximately 10 queues.

2.3 Reports



This section describes how supervisors can configure, view, and save reports on IP Office Customer Call Reporter. Those reports can be run when required or can be scheduled to run automatically at preset intervals.

- Manually run reports are first viewed on screen in a browser window. From there they can be printed and/or exported to a range of formats including Adobe PDF, Word, Excel, and Crystal Reports.
- Automatically scheduled reports are sent either to a network printer or to an e-mail address as an attachment in Adobe PDF, Word, Excel, or Crystal Reports format.

Supported languages are ***Dutch***, ***English (UK)***, ***English (US)***, ***French***, ***German***, ***Italian***, ***Brazilian Portuguese***, ***Russian***, and ***Latin Spanish***. Some parts of customer call maps are third party components delivered over the internet and may run in different languages, for example, the zoom and pan controls.

Run Reports		
• Create a report template 38 • Run a manual report 42	• Schedule a report 45 • Copy a report template 47	• Delete a report 48 • Use custom reports 66

Standard Report Types

You can use IP Office Customer Call Reporter to generate reports of the following standard types:

Report	Description
Agent Summary Report 52	Depending on the target that you select, this report details the call activities of the specified agents or of all the member agents in the specified queues or views. An agent can be performing two or more activities at the same time, but the system processes only the single current active state of the agent for this report. For example, if an agent places a queue call on hold and makes a concurrent internal call, the system processes only the states involved in making the internal call, for the report.
Agent Time Card Report 53	This report summarizes an agent's performance, including time logged in, talk time, time in various states, calls made and answered, and agent performance. It includes queue calls and direct calls to agent extension. However, it does not include internal calls.
Alarm Report 55	This report lists the warning and alarms that have occurred.
Call Details Report 56	This report details the individual calls for the selected target or targets. For internal calls, the report only reflects the call data for the receiving end, not for the originator. External calls are accounted and shown for the extension making the outbound call.
Call Summary Report 59	The Call Summary Report displays a summary of the calls that are presented to the specified target. The report is divided into three sections. The first section displays the summary of the unique customer calls. The second section displays the summary of the handled calls and the sub-categories: answered calls, lost calls, overflowed answered, overflowed lost, routed to voicemail, and routed to other. The last section displays the summary of the transferred calls, no answer calls, average answer percentage, average answer time, average abandon time, and grade of service.
Trace Report 62	This report lists in chronological order all the events for the selected target or targets within the selected period.
Voicemail Report 64	Reports based on the Voicemail Report template of IP Office Customer Call Reporter can be used to track the usage of customized call flows that have been added to Voicemail Pro. The reporting is not automatic, only specific labels that have been assigned to call flow actions are reported on.

Using a report type, you can create a personalized report template by editing the settings and then saving. You can create multiple report templates from a given report type.

Custom Report Types

In addition to the standard report types, you can create personalized report templates from custom report types. In IP Office Customer Call Reporter, you can create custom report types using Custom Reporting Wizard. You can also create custom report types using the Microsoft Report Builder tool. Alternatively, you can contact your administrator to get the custom report type files.

Standard Report Options

- You can use all reports as manual or automatic reports and specify the **Report Date Range** and **Working Hours**.

Supported languages are ***Dutch***, ***English (UK)***, ***English (US)***, ***French***, ***German***, ***Italian***, ***Brazilian Portuguese***, ***Russian***, and ***Latin Spanish***. Some parts of customer call maps are third party components delivered over the internet and may run in different languages, for example, the zoom and pan controls.

Report Options\Report		Agent Summary	Agent Time Card	Alarm Report	Call Details	Call Summary	Trace Report	Voicemail Report
Targets	**Agents**	✓	✓	–	✓	✓	✓	–
	Queues	✓	–	–	✓	✓	–	–
	Views	✓	–	✓[1]	✓	✓	–	–
	DDIs	–	–	–	✓	✓	–	–
	CLIs	–	–	–	✓	✓	✓	–
	Account Codes	–	–	–	✓	✓	–	–
	Call References	–	–	–	–	–	✓	–
	Voicemail	–	–	–	–	–	–	✓[1]
Include	**Include Internal**	✓[1]	–	✓[1]	✓	✓	✓[1]	✓[1]
	Date Range	✓	✓	✓	✓	✓	✓	✓
	Working Hours	✓	✓	✓	✓	✓	✓	✓
	Include Saturdays	✓	✓	✓	✓	✓	✓	✓
	Include Sundays	✓	✓	✓	✓	✓	✓	✓
Group result by	**Ungrouped**	–	–	✓[1]	✓	✓	✓[1]	✓
	15 minutes	–	–	–	✓	✓	–	–
	30 minutes	–	–	–	✓	✓	–	–
	Hour	–	–	–	✓	✓	–	✓
	Day	–	✓	–	✓	✓	–	✓
	Week	–	✓	–	✓	✓	–	✓
	Queue	✓[1]	–	–	✓	✓	–	–
	Agent	–	✓	–	✓	✓	–	–
	CLI	–	–	–	✓	✓	–	✓
	DDI	–	–	–	✓	✓	–	✓
	Account Code	–	–	–	✓	✓	–	–

1. Fixed non-adjustable setting. When this is the case the control for the setting is not displayed in the report configuration settings.

Grouped Reports

- When a report is grouped, each set of grouped records will have its own summary except when there is only one record in the group.
- Records that do not match the grouping being used will be grouped at the start of the report. For example, in a report grouped by CLI, records that have no associated CLI will be displayed at the start of the report.
- The grouped records will still contain data appropriate for the selected report targets. For example, in a Call summary report targeted on a queue but grouped by agents, each report record will still detail how the queue handled the call even though the records will be grouped against the answering agents. Therefore, the average answer time for the call will be how long the call was in the queue to get answered by any member of the queue, and not by just the agent who did answer.
- Following the same logic as hour grouping, if **15 minutes grouping** is selected, the call records will get grouped in 15-minute slabs. For example, xx:00 to xx:14, xx:15 to xx:29, xx:30 to xx:44 and xx:45 to xx:59. Similarly, if **30 minutes** grouping is selected, then call records will get grouped in 30-minute slabs.

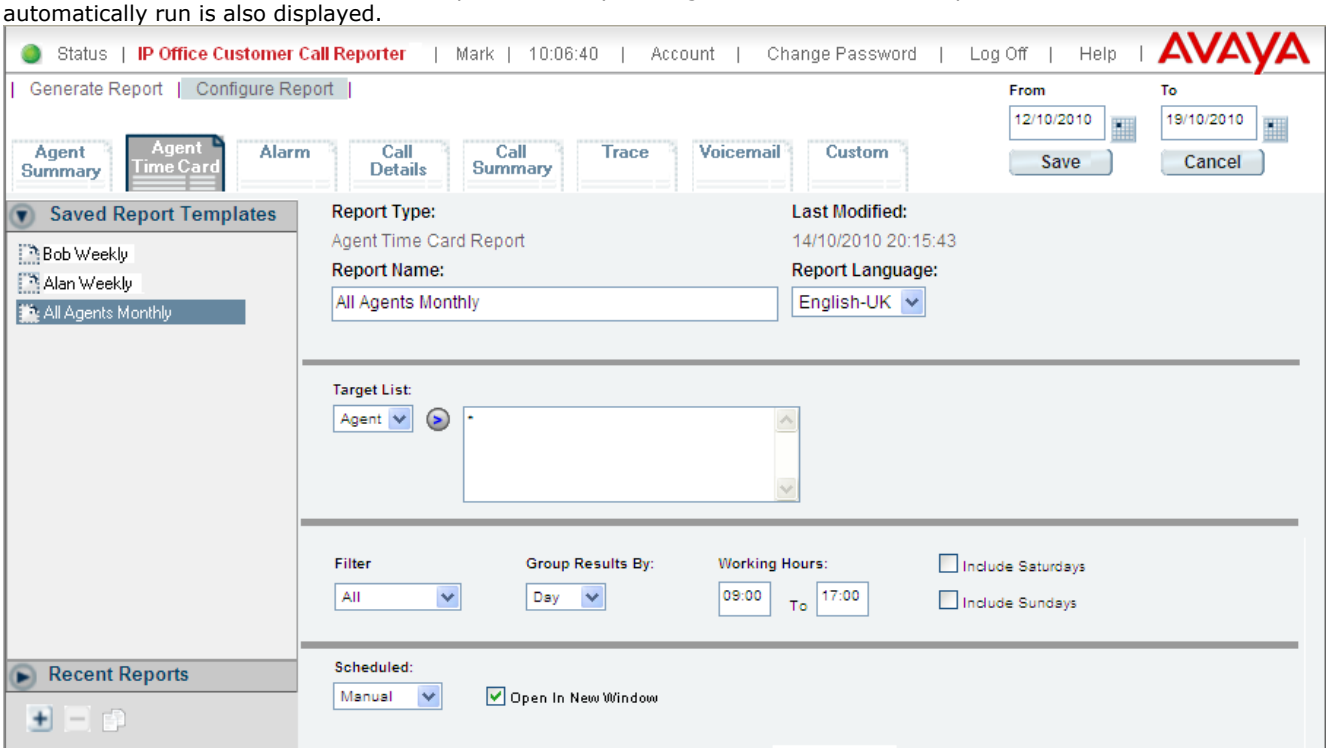
Non-IP Office Customer Call Reporter Agent and Queue Reporting

Reports can include values for calls that involved hunt groups or hunt group members not configured for IP Office Customer Call Reporter. These are reported as **Non Hunt Group** and **Non Agent**. Only a single set of values is reported, not separate values for each hunt group or agent.

2.3.1 Creating/Editing Report Templates

Use the process below to enter the settings for a report template. That report template can then be run immediately or saved for later use. Saved report templates can also be configured for use as automatic scheduled reports.

1. Click the **Reports** icon.
2. Click the tab for the type of report required: **Agent Summary** 52, **Agent Time Card** 53, **Alarm** 55, **Call Details** 56, **Call Summary** 59, **Trace** 62, or **Voicemail** 64.
   - To use a custom report, click the **Custom** tab. The page will list the Custom Reports 66 available to you. Click the icon of the custom report type that you require.
3. Select the action that you want to perform:
   - To create an entirely new report template, click .
   - To edit an existing template or use it as the base for a new template, drag it to the right hand panel.
     - If the selected template is a manual report, **Generate Report** is selected by default. The option **Generate Report** is used to manually view reports 42 when the template settings are completed. Click **Configure Report** to change to editing the template.
     - If the selected template is set as a scheduled report, **Configure Report** is selected by default.
4. With **Configure Report** selected (top left), the report settings are displayed. Details about when the template was last modified and last run are shown. If the report is already a being used as a scheduled report, when it will next be automatically run is also displayed.



   - The example above shows settings where the report template is **Scheduled** as ***Manual***. For this type of template the date and time fields are shown at the top right. If the **Scheduled** option is set to ***Automatic***, for use with the IP Office Customer Call Reporter scheduler 45, the date range fields are hidden.
5. Enter a **Report Name**. This will be shown at the top of the report. It needs to be unique, it cannot be the same as another report.
6. Use the **Target List** drop-down to select the types of targets of the report, for example queue or agents.
   - Select the type of target required. Enter the target numbers or names, separating each by a comma.
   - For some target types (not account codes and DDI numbers), you can click to display a list from which you can select targets.
   - The wildcard * can be used to specify match all targets of the type selected in the **Target List** drop-down. When * is used, the report may include entries for **Non Hunt Group** and **Non Agent** if some IP Office Customer Call Reporter calls have been handled by non-IP Office Customer Call Reporter parties.

   Note: The Target List option **is not available** for custom report types.

7. **Other Settings**
The range and type of settings will vary according to the type of report.

- **Report Language**
Select the language to be used for the report. By default, the language that is being used for the web client is selected.
Supported languages are ***Dutch***, ***English (UK)***, ***English (US)***, ***French***, ***German***, ***Italian***, ***Brazilian Portuguese***, ***Russian***, and ***Latin Spanish***. Some parts of customer call maps are third party components delivered over the internet and may run in different languages, for example, the zoom and pan controls.

- **Include Internal**
For reports based on the ***Call Details Report*** 56 and ***Call Summary Report*** 59 templates, select whether the report should include internal calls.

Note: This option is always selectable for custom report types. It will have no effects on custom reports not reporting on calls.

- **Group Results By**
By default the records in a report are shown in alphabetic or time order (depending on the report type and target). For reports based on the ***Call Details Report*** 56, ***Call Summary Report*** 59 and ***Voicemail Report*** 64 templates, the records output in the report can be grouped by a common factor such as account code.
  - Reports based on the Agent Summary Report 52 template are automatically grouped by queue. Reports based on the Alarm Report 55 and Trace Report 62 templates cannot be grouped, they show events in time order.
  - When a report is grouped, each set of grouped records will have its own summary except when there is only one record in the group.
  - Records that do not match the grouping being used will be grouped at the start of the report. For example, in a report grouped by CLI, records that have no associated CLI will be displayed at the start of the report.
  - The grouped records will still contain data appropriate for the selected report targets. For example, in a Call summary report targeted on a queue but grouped by agents, each report record will still detail how the queue handled the call even though the records will be grouped against the answering agents. Therefore, the average answer time for the call will be how long the call was in the queue to get answered by any member of the queue, and not by just the agent who did answer.
  - Following the same logic as hour grouping, if **15 minutes grouping** is selected, the call records will get grouped in 15-minute slabs. For example, xx:00 to xx:14, xx:15 to xx:29, xx:30 to xx:44 and xx:45 to xx:59. Similarly, if **30 minutes** grouping is selected, then call records will get grouped in 30-minute slabs.

Note: The Group Results By option **is not available** for custom report types.

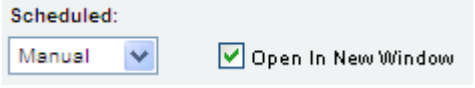
- **Thresholds**
Use thresholds to calculate performance statistics like Agent Productivity Factor (APF) and Grade of Services (GOS). Thresholds can be used only for ***Agent Time Card*** 53, ***Call Summary Report*** 59, and ***Custom Reports*** 66 - the reports that include performance statistics.

- **Working Hours**
Set the time frame for calls to be included in the report. By default the hours are set to 09:00 to 17:00.

- **Include Saturdays/Include Sundays**
Select whether calls occurring on these days should be included in the report.

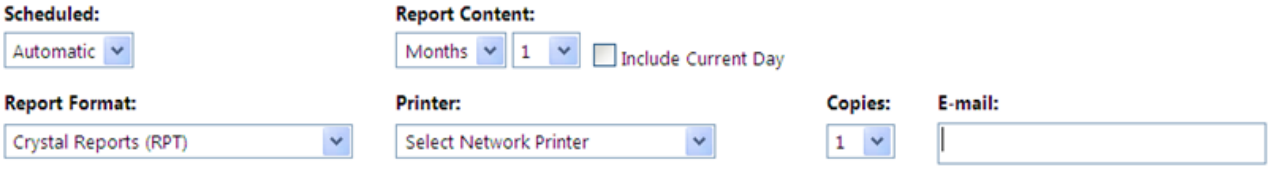
- **Filter**
This option is only available for ***Call Details*** 56 and ***Agent Time Card*** 53 type reports.
  - **Call Details Report Filter Options**
Use the filter to select which calls are to be included in the report based on the end state of the calls: ***All***, ***Connected***, ***Enquiry Answered***, ***Holding***, ***New Call***, ***No Answer***, ***Not Answered***, ***Overflowed Lost***, ***Overflowed Answered***, ***Transferred***, ***Abandoned***, or ***Routed to Voicemail***. The options ***Overflowed Lost*** and ***Overflowed Answered*** are not available if the report target is an agent or agents. ***Overflowed Lost*** and ***Overflowed Answered*** are only included in reports on the queue from which the call overflowed.
  - **Agent Time Card Report Filter Options**
The filter field is used to select which fields are included in the report: ***All***, ***Shifts***, ***Lunch***, ***Breaks***, ***Calls***, ***Talk Time*** and ***Performance***.

8. **Set when the report should occur**
The **Scheduled** field can be set to either ***Manual*** or ***Automatic***.
- **Manual**
Use this setting for reports that are only run when you select it. The system displays the report configuration settings that you can change, if required, before the report runs. The report is displayed in a browser window but can then be exported or printed. See Running Manual Reports 42.



- Use the **Open in New Window** setting as follows. If selected, manually run reports are opened in separate pop-up windows, and you can open multiple reports at the same time. However, it requires the browser to be configured to allow popup windows. If not selected, reports are opened in the right-hand panel of the IP Office Customer Call Reporter window. The default value of this setting is set in the supervisor account settings 129 and is also used for recent reports viewing.
- Use the **Report Range** to specify the period that should be covered by the report.
- If you do not want to save the report as a template for future use click **Generate Report** to run the report now. The report is displayed in a browser window 42 from which you can print it or save it in a number of file formats.
- Even for reports that you are planning to schedule as **Automatic**, first run the report manually to confirm that it contains the required data and targets.

- **Automatic**
  Use this setting for reports that will run automatically at regular intervals, that is, 'scheduled reports'. When selected, the report settings change from those used for ***Manual*** (above) to those listed below. Note that these settings are different from the scheduling of when and how frequently the report is run 45.



  - **Report Content:**
    These fields set the range of data to include in the report. Select ***Days***, ***Weeks***, or ***Months***.
    - The number of days or weeks is counted back from the day previous to the day that the report actually runs on. For example, if you select ***Days 1***, the report includes data captured for the previous day. If you select ***Weeks 2***, the report includes data captured for the previous 2 weeks counting back from the previous day.
    - If you select **Months**, the report includes data captured for the previous month or months. For example, if you select ***Months 2*** for a report that is scheduled to run on a day in April, the report includes data captured for the previous two months, that is, March and February.
    - If you check the **Include Current Day** checkbox, the report also includes data captured for the day that the report runs on. If the report runs during the working hours, the report includes the data captured till the time that the report runs at. So, if you check the **Include Current Day** checkbox, do not schedule a report to run during the time slot entered in **Working Hours**, as it may cause the report to include some statistics that are incomplete. By default, the **Include Current Day** checkbox is not checked.
    - **Example Scenarios**
      - **Working Hours** = 09:00 to 17:00, **Days 1** is selected, **Include Current Day** is not checked,
        Report is run at 18:00 on 02/18/2012
        Report includes data captured between 09:00 and 17:00 on 02/17/2012.
      - **Working Hours** = 09:00 to 17:00, **Days 1** is selected, **Include Current Day** is not checked,
        Report is run at 12:00 on 02/18/2012
        Report includes data captured between 09:00 and 17:00 on 02/17/2012.
      - **Working Hours** = 09:00 to 17:00, **Days 1** is selected, **Include Current Day** is checked, Report is run at 18:00 on 02/18/2012
        Report includes data captured between 09:00 and 17:00 on 02/18/2012.
      - **Working Hours** = 09:00 to 17:00, **Days 1** is selected, **Include Current Day** is checked, Report is run at 12:00 on 02/18/2012
        Report includes data captured between 09:00 and 12:00 on 02/18/2012.
      - **Working Hours** = 09:00 to 17:00, **Weeks 1** is selected, **Include Current Day** is not checked,
        Report is run at 18:00 on 02/18/2012
        Report includes data captured between 09:00 and 17:00 from 02/11/2012 to 02/17/2012.
      - **Working Hours** = 09:00 to 17:00, **Weeks 1** is selected, **Include Current Day** is not checked,
        Report is run at 12:00 on 02/18/2012
        Report includes data captured between 09:00 and 17:00 from 02/11/2012 to 02/17/2012.
      - **Working Hours** = 09:00 to 17:00, **Weeks 1** is selected, **Include Current Day** is checked, Report is run at 18:00 on 02/18/2012
        Report includes data captured between 09:00 and 17:00 from 02/12/2012 to 02/18/2012.
      - **Working Hours** = 09:00 to 17:00, **Weeks 1** is selected, **Include Current Day** is checked, Report is run at 12:00 on 02/18/2012
        Report includes data captured between 09:00 and 17:00 from 02/12/2012 to 02/17/2012 and between 9:00 and 12:00 on 02/18/2012.

- **Working Hours** = 09:00 to 17:00, **Months 1** is selected, **Include Current Day** is not checked, Report is run at 18:00 on 02/18/2012
  Report includes data captured between 09:00 and 17:00 from 01/01/2012 to 01/31/2012.
- **Working Hours** = 09:00 to 17:00, **Months 1** is selected, **Include Current Day** is not checked, Report is run at 12:00 on 02/18/2012
  Report includes data captured between 09:00 and 17:00 from 01/01/2012 to 01/31/2012.
- **Working Hours** = 09:00 to 17:00, **Months 1** is selected, **Include Current Day** is checked, Report is run at 18:00 on 02/18/2012
  Report includes data captured between 09:00 and 17:00 from 02/01/2012 to 02/18/2012.
- **Working Hours** = 09:00 to 17:00, **Months 1** is selected, **Include Current Day** is checked, Report is run at 12:00 on 02/18/2012
  Report includes data captured between 09:00 and 17:00 from 02/01/2012 to 02/17/2012 and between 9:00 and 12:00 on 02/18/2012.

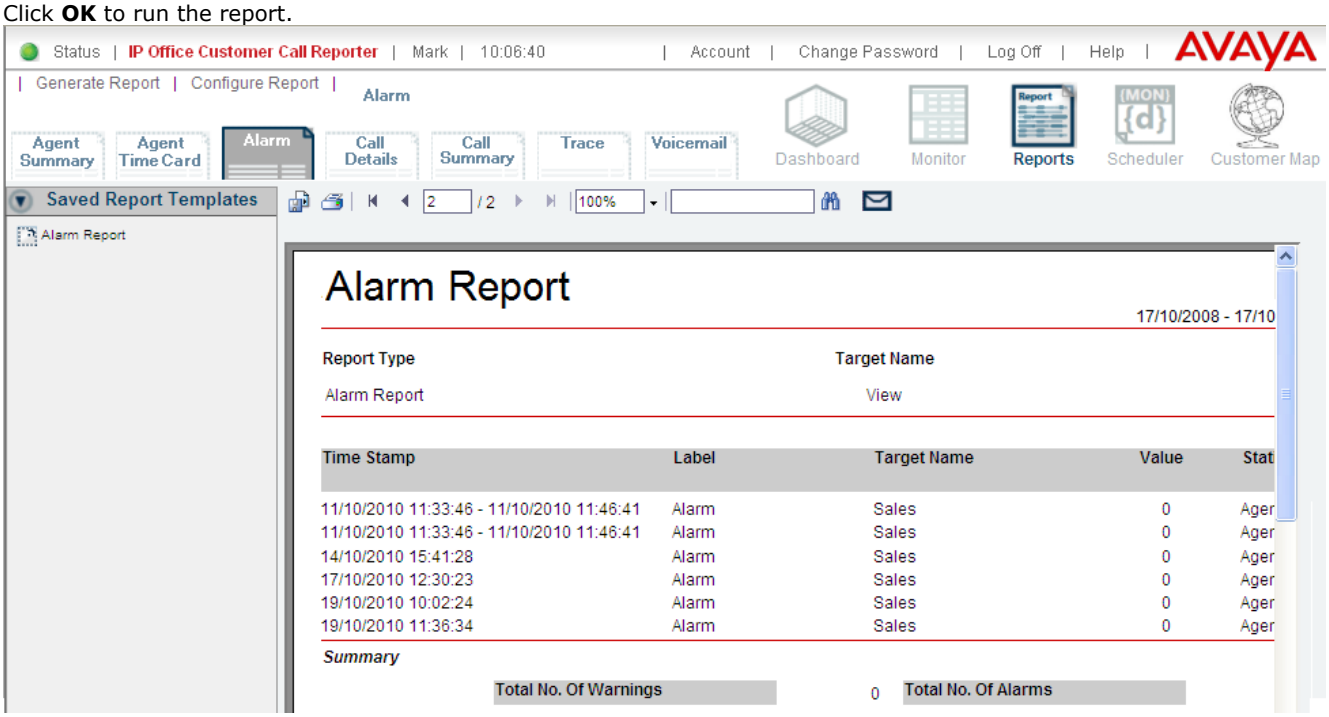
- **Report Format**
  Select the format that the report is to be produced in. The options available depend on whether the report was based on one of the standard report types supplied with IP Office Customer Call Reporter or on a custom report type added later. Note that for schedule reports sent in ***Excel*** format, no formatting is applied to the report data.
  - **Formats available for Standard Reports**
    PDF (Adobe Acrobat .pdf), ***Microsoft Word*** (.doc), ***Microsoft Excel***, (.xls), ***Rich Text Format*** (.rtf), ***Crystal Reports*** (.rpt), ***XML***, ***Comma Delimited*** (.csv), ***HTML*** or ***Text***.
  - **Formats available for Custom Reports**
    PDF (Adobe Acrobat .pdf), ***Microsoft Word*** (.doc), ***Microsoft Excel***, (.xls) or ***TIFF Image*** (.tiff).
- **Printer**
  Select the printer that the report should be sent to if you want it to be printed automatically. Only printers available to the IP Office Customer Call Reporter server computer are displayed in this list.
- **Copies**
  Select the number of copies of the report that should be produced. You can select between 1 and 10, the default number being 1.
- **E-mail Address**
  Enter an e-mail address if you want the report to be sent to an e-mail account.

9. When the report settings are as required click **Save**. The report will be saved under **Saved Report Templates**. There is no limit to the number of reports that you can save. If you try to save a report with a name that already exists you will receive a warning. You can select to overwrite the existing report or to return to editing the new report where you can change its name.
10. When the report has been saved a message window opens stating that the report was saved successfully. Click **OK** to continue.
11. Reports **Scheduled** as ***Automatic*** still need to be added to the **Scheduler** 45 list to run.

2.3.2 Running Manual Reports

For those reports templates where you set the Schedule as Manual, you can manually run a report at any time. The report results are displayed in a browser window. You can then select to print the report or save it to a number of file formats.

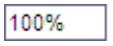
1. Click the **Reports** icon.
2. Click the tab for the type of report required: **Agent Summary** 52, **Agent Time Card** 53, **Alarm** 55, **Call Details** 56, **Call Summary** 59, **Trace** 62, or **Voicemail** 64.
   - To use a custom report, click the **Custom** tab. The page will list the Custom Reports 66 available to you. Click the icon of the custom report type that you require.
3. Drag the saved report template that you want to run over to the right hand panel or click to create a new report 38.
4. Change the **Scheduled** option to ***Manual***.
5. Check the current settings. Set the date range settings and the report target as required.
6. The **Open in New Window** setting controls where the report will be displayed. If selected, manually run reports are opened in separate pop-up windows, and you can open multiple reports at the same time. However, it requires your browser to be configured to allow popup windows. If not selected, reports are opened in the right-hand panel of the IP Office Customer Call Reporter client window.
7. Click **Generate Report** (top left).
8. Click **OK** to run the report.



9. The following options are available for the generated report:

- **For Standard reports**
  - **Export**
    1. Click .
    2. In the pop-up window, select the report file format. The available formats are: ***Crystal Reports*** (.rpt), ***PDF*** (Adobe Acrobat .pdf), ***Microsoft Excel*** (.xls), ***Microsoft Word*** (.doc), ***Rich Text Format*** (.rtf), and ***XML*** (.xml).
    3. Select the page range for the report.
    4. Click the **Export** button.
  - **Print**
    1. Click .

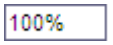
2. In the pop-up window, select the page range for the report.
3. Click the **Export** button to create a Adobe Acrobat PDF file which you can view as a print preview. You then either print that file or save it. This requires your computer to have Acrobat Reader or a similar application that can display PDF files.

-  **Page Forward/Page Back**
  You can use these controls to select the page of the report that is currently displayed.
-  **Zoom**
  Select the zoom level applied to the report view. You can either enter a value in the text box or use the drop-down to select a value.
-  **Search**
  Search the report using the name or number specified in the preceding field.
-  **E-mail**
  Click to e-mail the report. Before e-mailing the report, you can specify the destination address or addresses and the report format. The available formats are: ***PDF*** (Adobe Acrobat .pdf), ***Microsoft Word*** (.doc), ***Microsoft Excel*** (.xls), **Comma delimited** (.csv), ***Rich Text Format*** (.rtf), ***Crystal Reports*** (.rpt), **XML** (.xml), ***Web page*** (.htm), and ***Text*** (.txt).

- **For Custom reports**
  -  **Export**
    1. Click .
    2. From the drop-down menu, select the file format for exporting the report. The available file formats are: ***PDF*** (Adobe Acrobat .pdf), ***Microsoft Word*** (.doc), ***Microsoft Excel*** (.xls), and ***TIFF Image*** (.tiff).

    Note: The system does not retain tooltips when you export a custom report. Also, formatting is not applied to the report data that you export in the Excel format.

  -  **Print**

    The print function creates a Adobe Acrobat PDF file as a print preview. You can then either print the file or save it. This requires your computer to have Acrobat Reader or a similar application that can display PDF files.
  -  **Page Forward/Page Back**
    You can use these controls to select the page of the report that is currently displayed.
  -  **Zoom**
    Select the zoom level applied to the report view. You can use the drop down to display and select a value.

    Note: The zoom function is supported only in Internet Explorer. However, for other browsers you can use the browser's own zoom functions. For example, when using Firefox, you can zoom in (Ctrl +), zoom out (Ctrl -), and reset the zoom (Ctrl 0)
  -  **Search**
    Search the report using the name or number specified in the preceding field.
  -  **E-mail**
    Click to e-mail the report. Before e-mailing the report, you can specify the destination address or addresses and the report format. The available formats are: ***PDF*** (Adobe Acrobat .pdf), ***Microsoft Word*** (.doc), ***Microsoft Excel*** (.xls), and ***TIFF Image*** (.tiff).

10. The report is also added to the **Recent Reports** section, with the time and date added to the report name. You can use that copy to view the report results again 49.

Document Map

A document map, which can be used to navigate through the report, is seen in the online display of reports **based on custom report types**.

This feature is not available for reports based on standard report types or in export reports.

Communication Failure Report

IP Office Customer Call Reporter records details of any times when it was unable to communicate with the IP Office telephone system. For reports based on standard report types, if the report covers a time period that includes any such events, details of the communication failure are included at the start of the report. This is not used for reports based on custom report types.

Note: The following report is available for standard reports only.

Note : The following IP Offices experienced communication failure with CCR for the periods stated, report data during these periods may be incomplete.

IP Office Name	IP Address	Connection Lost	Connection Restored
Simulation1	135.64.185.202	09/07/2009 12:24:44	09/07/2009 12:30:14

Example Communication Failure Report Prefix

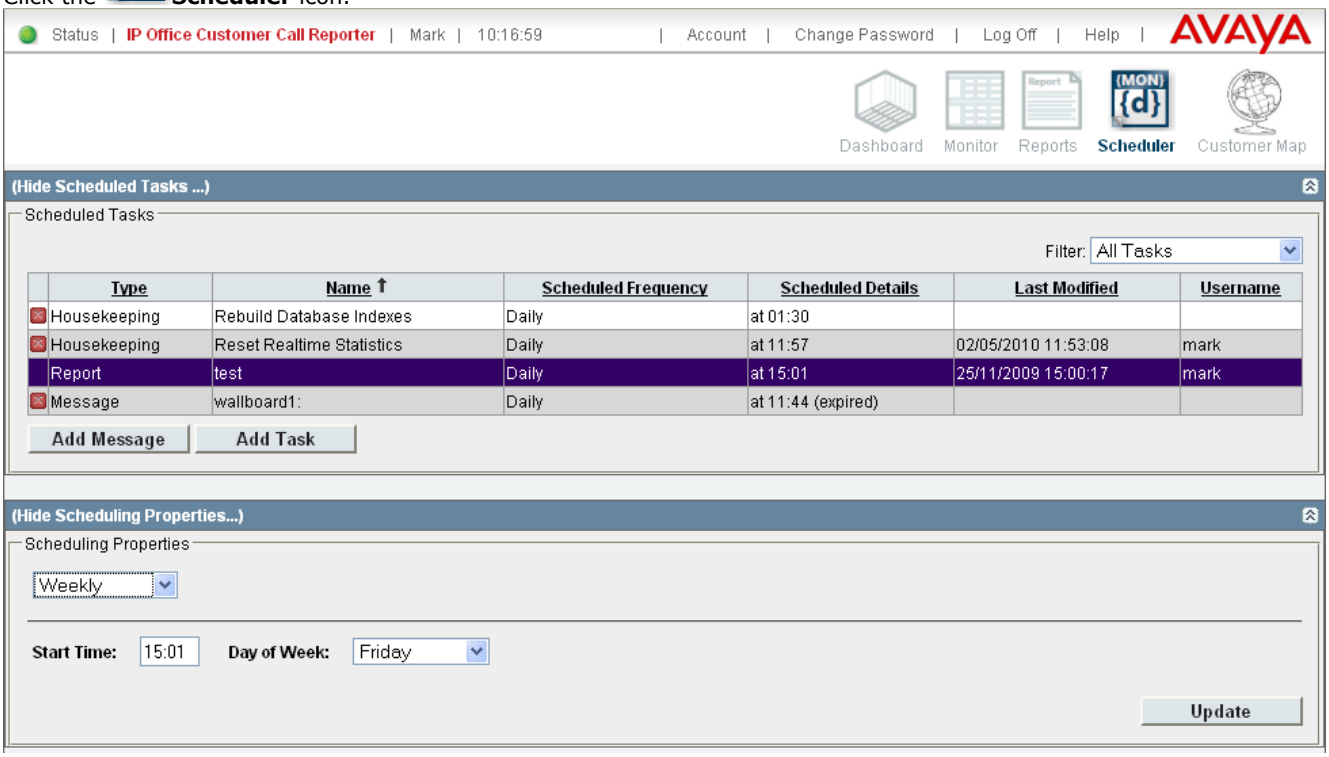
Non-IP Office Customer Call Reporter Agent and Queue Reporting

Reports can include values for calls that involved hunt groups or hunt group members not configured for IP Office Customer Call Reporter. These are reported as **Non Hunt Group** and **Non Agent**. Only a single set of values is reported, not separate values for each hunt group or agent.

2.3.3 Scheduling Reports

The **Scheduler** tab shows tasks including any reports you have created 38 that have been saved with their **Scheduled** setting set to ***Automatic***.

1. Create a report 38 as required and set its **Scheduled** option to ***Automatic***. The report destination, format and time range that it covers are set when creating and editing the report.
2. Click the **Scheduler** icon.

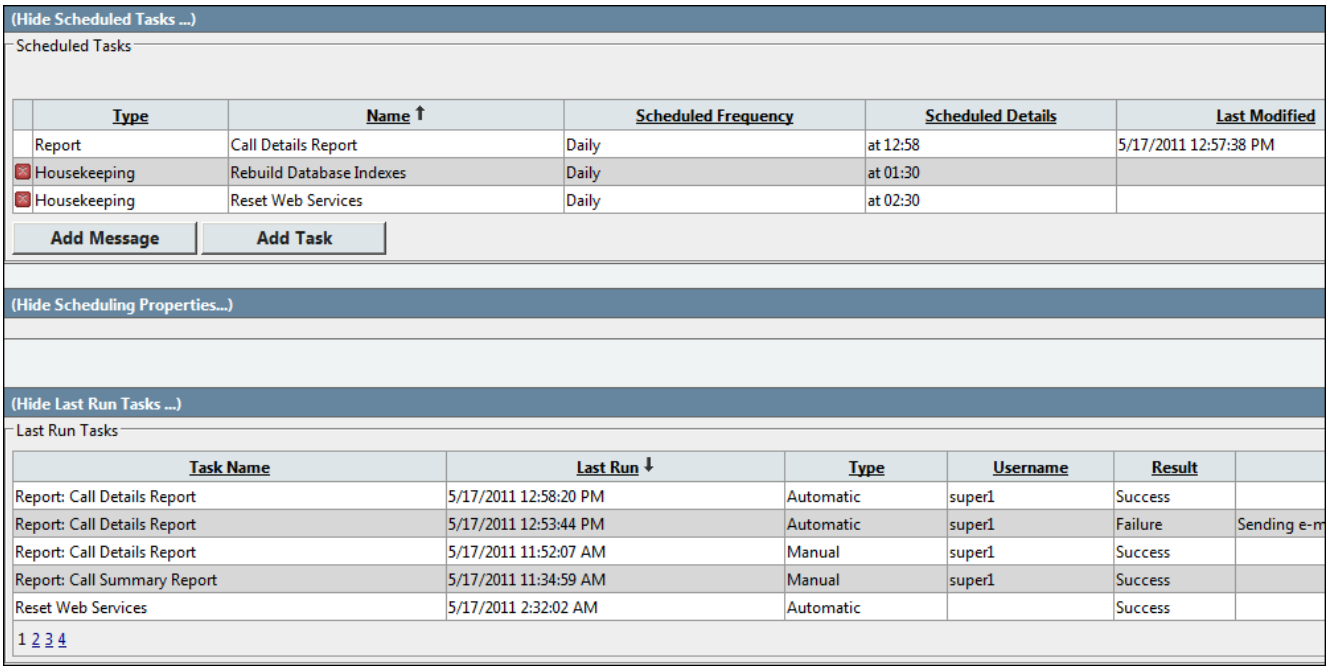


3. To schedule a report or to change the schedule, click the report to be amended in the **Scheduled Tasks** section.
4. Select the required option in the **Scheduling Properties**. Amend the report properties as required.

   - **Daily**
     If selected, you can then set a **Start Time** for when the report should be run each day. The default is ***09:00***. The option Include Weekends should be selected if you also want the report to run at weekends (Saturdays and Sundays).
   - **Weekly**
     If selected, you can then set a **Start Time** and **Day of Week** for when the report should be run each week. The default is ***9:00 Sunday***.
   - **Monthly**
     If selected, you can then choose either a day such as the last Friday of the month or a specific date within a month. If you select a date that exceeds the number of days in the month, the report gets scheduled for the last calendar day of the month. For example, if you select the report to be run on the 31st day of a month, the report will run on the 30th day of a month if there are only 30 days in the month.
   - **Unscheduled**
     Stop running the report on an automatic schedule.

5. Click **Update** to save your changes.

The system displays the recently run reports in the **Last Run Tasks** section. The **Result** column will display success if the report has been generated successfully or "failure" if the report does not generate.

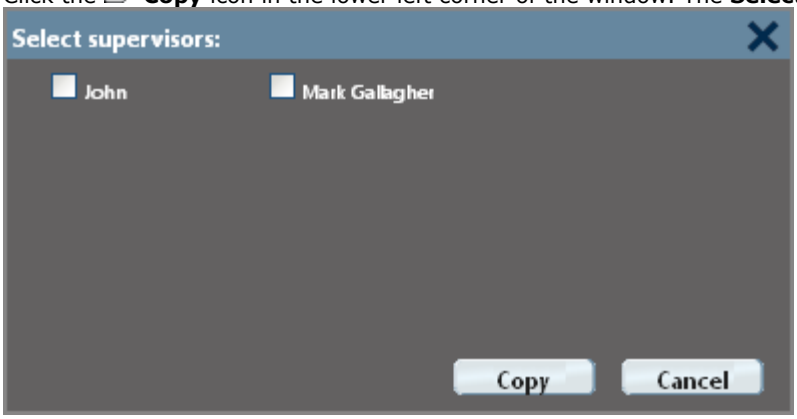


2.3.4 Copying a Template to Another Supervisor

You can copy any of your saved report templates to another supervisor or supervisors. If you copy a report that is based on a custom report type 66, the source file for the custom report type is also copied.

To Copy a Saved Report Template to Another Supervisor:

1. Click the **Reports** icon.
2. Click the tab for the type of report required: **Agent Summary** 52, **Agent Time Card** 53, **Alarm** 55, **Call Details** 56, **Call Summary** 59, **Trace** 62, or **Voicemail** 64.
   - To use a custom report, click the **Custom** tab. The page will list the Custom Reports 66 available to you. Click the icon of the custom report type that you require.
3. Select the report that you want to copy in the list of **Saved Report Templates**.
4. Click the **Copy** icon in the lower left corner of the window. The **Select Supervisor** menu is displayed.



5. Select the supervisors who you want to share the saved report template with. If the supervisor already has a copy, a new copy is created with a new name.

   Note: When you are using copy function with custom reports and a custom report file exists at the target destination with the same name, IP Office Customer Call Reporter will create a duplicate custom report file with the originating supervisor name appended to the file. If a custom report file already exists with the supervisor name appended, then it is overwritten.

6. Click **Copy**.
7. The report is now available to the other supervisors in their own **Saved Report Templates** lists.

2.3.5 Deleting a Report

1. Click the **Reports** icon.
2. Click the tab for the type of report required: **Agent Summary** 52, **Agent Time Card** 53, **Alarm** 55, **Call Details** 56, **Call Summary** 59, **Trace** 62, or **Voicemail** 64.
   - To use a custom report, click the **Custom** tab. The page will list the Custom Reports 66 available to you. Click the icon of the custom report type that you require.
3. Select the report that you want to delete in either the **Saved Report Templates** or the **Recent Reports** list.
4. Click at the bottom of the report screen can be used to delete both saved report templates and recent reports.

2.3.6 Viewing Recent Reports

Copies of reports that you have previously run manually 42 are saved in the **Recent Reports** section along with their time and date. Note that the maximum duration for which recent reports are kept is part of your supervisor account settings 129 and can be changed by the administrator.

- The **Open in New Window** setting in the supervisor account settings 129 controls where recent reports are opened. If selected, manually run reports are opened in separate pop-up windows, and you can open multiple reports at the same time. However, it requires the browser to be configured to allow popup windows. If not selected, reports are opened in the right-hand panel of the IP Office Customer Call Reporter client window.

1. Click the **Reports** icon.
2. Click the tab for the type of report required: **Agent Summary** 52, **Agent Time Card** 53, **Alarm** 55, **Call Details** 56, **Call Summary** 59, **Trace** 62, or **Voicemail** 64.
   - To use a custom report, click the **Custom** tab. The page will list the Custom Reports 66 available to you. Click the icon of the custom report type that you require.
3. Select **Recent Reports**.
4. Select the recent report that you want to view and drag it to the right pane.
5. If you select a Standard report, the following options are available for the generated report:
   - **Export**
     1. Click .
     2. In the pop-up window, select the report file format. The available formats are: ***Crystal Reports*** (.rpt), ***PDF*** (Adobe Acrobat .pdf), ***Microsoft Excel*** (.xls), ***Microsoft Word*** (.doc), ***Rich Text Format*** (.rtf), and ***XML*** (.xml).
     3. Select the page range for the report.
     4. Click the **Export** button.
   - **Print**
     1. Click .
     2. In the pop-up window, select the page range for the report.
     3. Click the **Export** button to create a Adobe Acrobat PDF file which you can view as a print preview. You then either print that file or save it. This requires your computer to have Acrobat Reader or a similar application that can display PDF files.
   - 2 / 2 **Page Forward/Page Back**
     You can use these controls to select the page of the report that is currently displayed.
   - 100% **Zoom**
     Select the zoom level applied to the report view. You can either enter a value in the text box or use the drop-down to select a value.
   - **Search**
     Search the report using the name or number specified in the preceding field.
   - **E-mail**
     Click to e-mail the report. Before e-mailing the report, you can specify the destination address or addresses and the report format. The available formats are: ***PDF*** (Adobe Acrobat .pdf), ***Microsoft Word*** (.doc), ***Microsoft Excel*** (.xls), **Comma delimited** (.csv), ***Rich Text Format*** (.rtf), ***Crystal Reports*** (.rpt), **XML** (.xml), ***Web page*** (.htm), and ***Text*** (.txt).
6. Custom reports are re-generated in the PDF file format. Therefore, to view recent custom reports you must have PDF file viewer installed on your computer. You can download PDF file viewer from http://get.adobe.com/reader.

Communication Failure Report

IP Office Customer Call Reporter records details of any times when it was unable to communicate with the IP Office telephone system. For reports based on standard report types, if the report covers a time period that includes any such events, details of the communication failure are included at the start of the report. This is not used for reports based on custom report types.

Note: The following report is available for standard reports only.

Note : The following IP Offices experienced communication failure with CCR for the periods stated, report data during these periods may be incomplete.

IP Office Name	IP Address	Connection Lost	Connection Restored
Simulation1	135.64.185.202	09/07/2009 12:24:44	09/07/2009 12:30:14

Example Communication Failure Report Prefix

Non-IP Office Customer Call Reporter Agent and Queue Reporting

Reports can include values for calls that involved hunt groups or hunt group members not configured for IP Office Customer Call Reporter. These are reported as **Non Hunt Group** and **Non Agent**. Only a single set of values is reported, not separate values for each hunt group or agent.

2.3.7 Standard Report Types

The following standard report types are provided with IP Office Customer Call Reporter:

Report	Description
Agent Summary Report 52	Depending on the target that you select, this report details the call activities of the specified agents or of all the member agents in the specified queues or views. An agent can be performing two or more activities at the same time, but the system processes only the single current active state of the agent for this report. For example, if an agent places a queue call on hold and makes a concurrent internal call, the system processes only the states involved in making the internal call, for the report.
Agent Time Card Report 53	This report summarizes an agent's performance, including time logged in, talk time, time in various states, calls made and answered, and agent performance. It includes queue calls and direct calls to agent extension. However, it does not include internal calls.
Alarm Report 55	This report lists the warning and alarms that have occurred.
Call Details Report 56	This report details the individual calls for the selected target or targets. For internal calls, the report only reflects the call data for the receiving end, not for the originator. External calls are accounted and shown for the extension making the outbound call.
Call Summary Report 59	The Call Summary Report displays a summary of the calls that are presented to the specified target. The report is divided into three sections. The first section displays the summary of the unique customer calls. The second section displays the summary of the handled calls and the sub-categories: answered calls, lost calls, overflowed answered, overflowed lost, routed to voicemail, and routed to other. The last section displays the summary of the transferred calls, no answer calls, average answer percentage, average answer time, average abandon time, and grade of service.
Trace Report 62	This report lists in chronological order all the events for the selected target or targets within the selected period.
Voicemail Report 64	Reports based on the Voicemail Report template of IP Office Customer Call Reporter can be used to track the usage of customized call flows that have been added to Voicemail Pro. The reporting is not automatic, only specific labels that have been assigned to call flow actions are reported on.

Communication Failure Report

IP Office Customer Call Reporter records details of any times when it was unable to communicate with the IP Office telephone system. For reports based on standard report types, if the report covers a time period that includes any such events, details of the communication failure are included at the start of the report. This is not used for reports based on custom report types.

Note: The following report is available for standard reports only.

Note : The following IP Offices experienced communication failure with CCR for the periods stated, report data during these periods may be incomplete.

IP Office Name	IP Address	Connection Lost	Connection Restored
Simulation1	135.64.185.202	09/07/2009 12:24:44	09/07/2009 12:30:14

Example Communication Failure Report Prefix

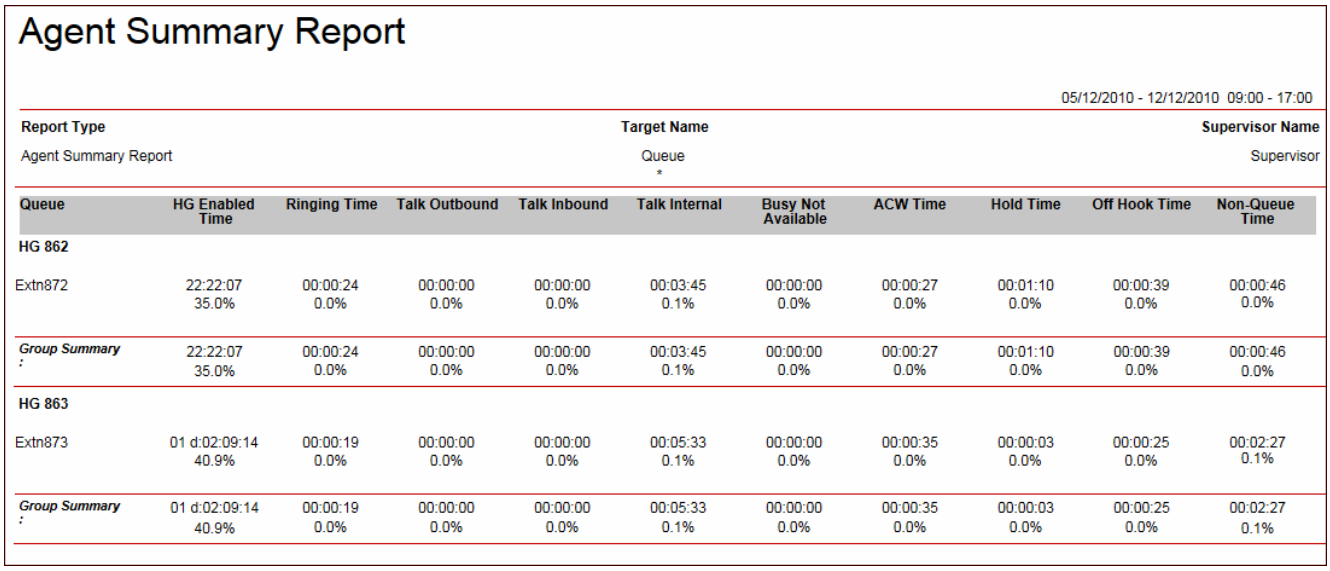
Non-IP Office Customer Call Reporter Agent and Queue Reporting

Reports can include values for calls that involved hunt groups or hunt group members not configured for IP Office Customer Call Reporter. These are reported as **Non Hunt Group** and **Non Agent**. Only a single set of values is reported, not separate values for each hunt group or agent.

2.3.7.1 Agent Summary Report

Depending on the target that you select, this report details the call activities of the specified agents or of all the member agents in the specified queues or views. An agent can be performing two or more activities at the same time, but the system processes only the single current active state of the agent for this report. For example, if an agent places a queue call on hold and makes a concurrent internal call, the system processes only the states involved in making the internal call, for the report.

- **Target options: *Queue*, *View,*** or ***Agent***.
  Use to select the agent or the set of agents that you want to generate the report on.
- **Group by: *Queue*** *(Fixed)*



Agent Summary Report

05/12/2010 - 12/12/2010 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Agent Summary Report	Queue *	Supervisor

Queue	HG Enabled Time	Ringing Time	Talk Outbound	Talk Inbound	Talk Internal	Busy Not Available	ACW Time	Hold Time	Off Hook Time	Non-Queue Time
HG 862										
Extn872	22:22:07 35.0%	00:00:24 0.0%	00:00:00 0.0%	00:00:00 0.0%	00:03:45 0.1%	00:00:00 0.0%	00:00:27 0.0%	00:01:10 0.0%	00:00:39 0.0%	00:00:46 0.0%
Group Summary :	22:22:07 35.0%	00:00:24 0.0%	00:00:00 0.0%	00:00:00 0.0%	00:03:45 0.1%	00:00:00 0.0%	00:00:27 0.0%	00:01:10 0.0%	00:00:39 0.0%	00:00:46 0.0%
HG 863										
Extn873	01 d:02:09:14 40.9%	00:00:19 0.0%	00:00:00 0.0%	00:00:00 0.0%	00:05:33 0.1%	00:00:00 0.0%	00:00:35 0.0%	00:00:03 0.0%	00:00:25 0.0%	00:02:27 0.1%
Group Summary :	01 d:02:09:14 40.9%	00:00:19 0.0%	00:00:00 0.0%	00:00:00 0.0%	00:05:33 0.1%	00:00:00 0.0%	00:00:35 0.0%	00:00:03 0.0%	00:00:25 0.0%	00:02:27 0.1%

For the report period, the report displays the following information for each target. The report displays the actual time and its percentage to the total time that the target was active for during the report period.

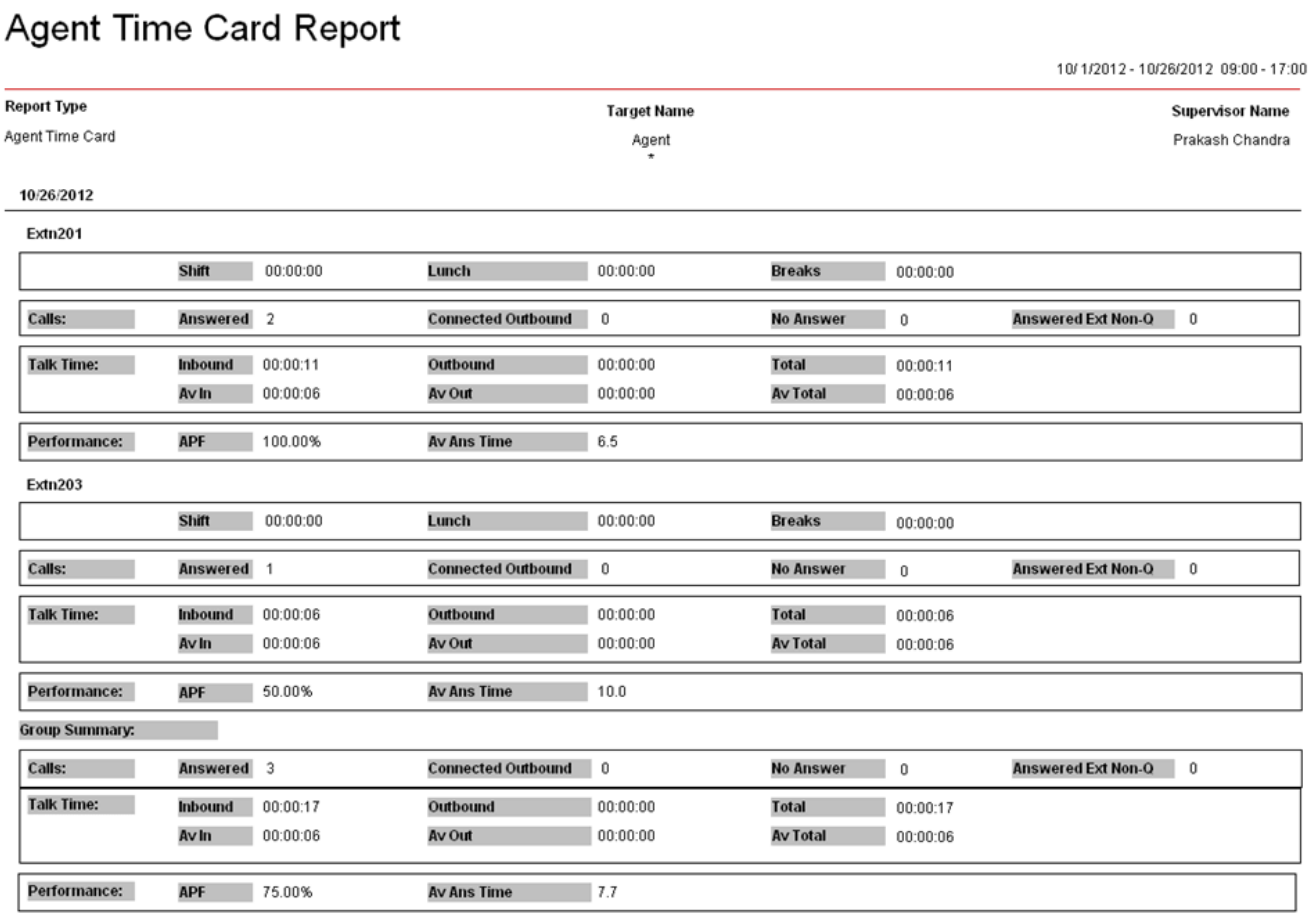
- **Hunt Group Enabled Time**
  The total concurrent time for which an agent is logged in and has the membership enabled for the queue that you generate the report on.
- **Ringing Time**
  The total time that an agent takes to answer incoming queue calls after they are presented to the agent extension.
- **Talk Outbound**
  The total time that an agent spends on connected outbound calls.
- **Talk Inbound**
  The total time that an agent spends on connected external queue calls.
- **Talk Internal**
  The total time that an agent spends on connected internal calls (incoming queue calls or outgoing calls).
- **Busy Not Available Time**
  The total time that an agent is in the Busy Not Available 338 state while no other concurrent activity is in progress. For example, if an agent is in the Busy Not Available state and makes an internal call, the reported **Busy Not Available Time** does not include the concurrent time that is included in **Off Hook Time** and **Talk Internal**.
- **ACW Time**
  The total time that an agent is in the After Call Work 336 state. It also includes the **Busy Wrap Up** time for the agent.
- **Hold Time**
  The total time for which an agent parks the queue calls or places the queue calls on hold while no other concurrent activity is in progress. For example, if an agent places a queue call on hold and makes an internal call, the reported **Hold Time** does not include the concurrent time that is included in **Off Hook Time** and **Talk Internal**.
- **Off Hook Time**
  The total time for which an agent extension is Off Hook 342 but is not connected to any trunk. Off hook time includes the ring time and the time spent in picking up handset and in dialing numbers. For an external trunk, it is the time until the trunk is seized.
- **Non-Queue Time**
  The total time that the agent spends on the direct calls to agent extension (internal and external).

You can group the report by queue. For each queue, the report displays the total of each of the values as group summary.

Note: If an agent is a member of multiple queues, then the statistics of the agent is reported for all the queues that the agent is a member of.

2.3.7.2 Agent Time Card Report

This report summarizes an agent's performance, including time logged in, talk time, time in various states, calls made and answered, and agent performance. It includes queue calls and direct calls to agent extension. However, it does not include internal calls.



Agent Time Card Report

10/1/2012 - 10/26/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Agent Time Card	Agent *	Prakash Chandra

10/26/2012

Extn201

	Shift	00:00:00	Lunch	00:00:00	Breaks	00:00:00		
Calls:	Answered	2	Connected Outbound	0	No Answer	0	Answered Ext Non-Q	0
Talk Time:	Inbound	00:00:11	Outbound	00:00:00	Total	00:00:11		
	Av In	00:00:06	Av Out	00:00:00	Av Total	00:00:06		
Performance:	APF	100.00%	Av Ans Time	6.5				

Extn203

	Shift	00:00:00	Lunch	00:00:00	Breaks	00:00:00		
Calls:	Answered	1	Connected Outbound	0	No Answer	0	Answered Ext Non-Q	0
Talk Time:	Inbound	00:00:06	Outbound	00:00:00	Total	00:00:06		
	Av In	00:00:06	Av Out	00:00:00	Av Total	00:00:06		
Performance:	APF	50.00%	Av Ans Time	10.0				

Group Summary:

Calls:	Answered	3	Connected Outbound	0	No Answer	0	Answered Ext Non-Q	0
Talk Time:	Inbound	00:00:17	Outbound	00:00:00	Total	00:00:17		
	Av In	00:00:06	Av Out	00:00:00	Av Total	00:00:06		
Performance:	APF	75.00%	Av Ans Time	7.7				

- **Target options: *Agent***.
- **Filter:**
  The report template supports a number of filters which control what information is included in the report.
  - ***Shifts***
    If selected, the report includes the times each agent logged in and out and total logged in time.
  - ***Lunch***
    If selected, the report includes the time each agent went into and came out of Busy Not Available 338 state using reason code 344 1.
  - ***Breaks***
    If selected, the report includes the time each agent went into and came out of other Busy Not Available 338 states other than reason code 344 1.
  - ***Calls***
    If selected, the report includes the **Answered Calls**, **Connected Outbound Calls**, **No Answer**, and **Answered Ext Non-Q** call counts for each agent.
  - ***Talk Time***
    If selected, the report includes the **Talk Inbound**, **Talk Outbound**, **Talk Total**, **Talk Inbound Average**, **Talk Outbound Average**, and **Talk Average** statistics for each agent.
  - ***Performance***
    If selected, the report includes the **Average Answer Time** statistics and the **Agent Productivity Factor** for each agent.
    - **Average Answer Time**
      IP Office Customer Call Reporter uses the straight average method to calculate the average answer time.

      Note: The Average Answer Time in the Agent Time Card includes direct calls to agents (like supervised transfers) and that causes the Average Answer Time in this report to be different than the one in the Monitor or the Call Summary Report. Since this report is Agent-centric and not Queue-centric, Agent Time Card includes direct calls in the calculation of Average Answer Time.
    - **Agent Productivity Factor**

An agent's productivity is measured by the parameters for **Lost Calls**, **Answered Calls**, **Minimum talk time**, and **Maximum talk time**. Any deviation from the set parameters has an effect on the total productivity of an agent.

The following parameter settings are available for the Agent Productivity factor calculation:

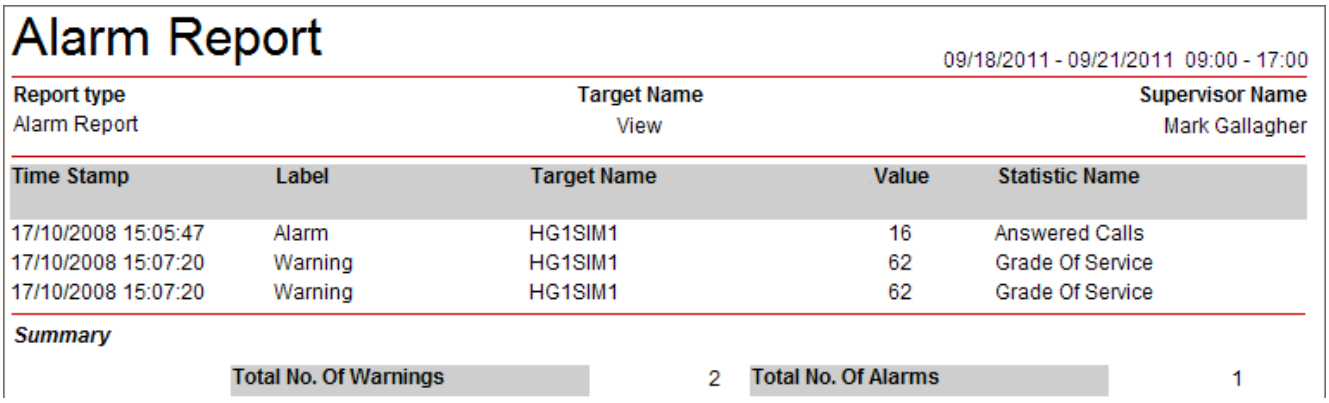
Parameters	Range	Default
Lost calls threshold	1 to 600 seconds	5 seconds
Answered calls	1 to 600 seconds	20 seconds
Minimum talk time	1 to 3600 seconds	1 second
Maximum talk time	1 to 3600 seconds	600 seconds

- **Group Result by: *Agent***, ***Day*** or ***Week***.
  The start and end time for shifts, breaks and lunch are only displayed when the report is grouped by Agent. All groupings show total time for these fields.

2.3.7.3 Alarm Report

This report lists the warning and alarms that have occurred.

- **Target options: *View*** *(fixed)*.
- **Group Result by: *Ungrouped*** *(fixed)*.



Alarm Report

09/18/2011 - 09/21/2011 09:00 - 17:00

Report type	Target Name	Supervisor Name
Alarm Report	View	Mark Gallagher

Time Stamp	Label	Target Name	Value	Statistic Name
17/10/2008 15:05:47	Alarm	HG1SIM1	16	Answered Calls
17/10/2008 15:07:20	Warning	HG1SIM1	62	Grade Of Service
17/10/2008 15:07:20	Warning	HG1SIM1	62	Grade Of Service

Summary

Total No. Of Warnings	2	Total No. Of Alarms	1

The following information is shown for each alarm or warning:

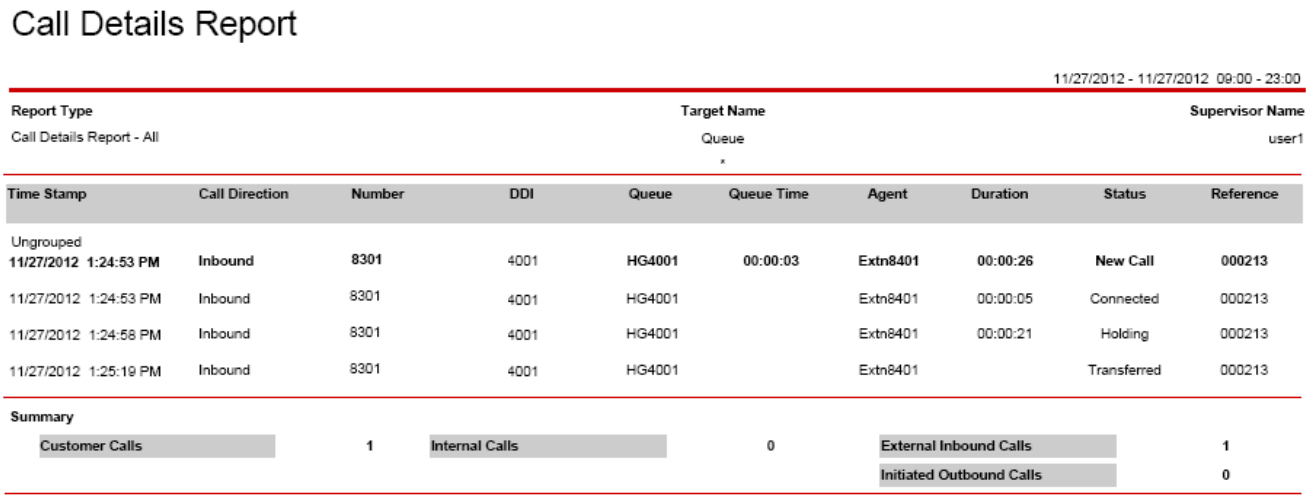
- **Time Stamp**
  The date and time the alarm or warning was triggered and, for alarms that have been cleared, the date and time the alarm or warning was cleared.
- **Label**
  Whether it was an alarm or a warning.
- **Target Name**
  The hunt group or agent that triggered the warning.
- **Value**
  The value of the statistic when the alarm or warning occurred.
- **Statistic Name**
  The statistic name. For agent and queue state alarms the state is included in the name, along with the reason code for a **Busy Not Available** alarm.

The summary at the end of the report details the total number of warnings and alarms included in the report period.

2.3.7.4 Call Details Report

This report details the individual calls for the selected target or targets. For internal calls, the report only reflects the call data for the receiving end, not for the originator. External calls are accounted and shown for the extension making the outbound call.

- **Target options: *Agent***, ***Queue***, ***View***, ***CLI***, ***DDI***, or ***Account Code***.
- **Filter: *All***, ***No Answer***, ***Overflowed Lost***, ***Overflowed Answered***, ***Transferred***, ***Abandoned***, ***Routed to Voicemail***, ***New Call***, ***Holding***, ***Enquiry Answered***, ***Not Answered***, or ***Connected***.
  - The ***Overflowed Lost*** and ***Overflowed Answered*** options are not available if the report target is an agent or agents.
  - ***Overflowed Lost*** and ***Overflowed Answered*** are only included in reports on the queue from which the call overflowed.
  - ***Routed to Voicemail*** is not included in the report if a call to a hunt group is routed to voicemail and the report target is an agent or agents.
- **Group Result by: *Ungrouped***, ***15 minutes, 30 minutes***, ***Hour***, ***Day***, ***Week***, ***Queue***, ***Agent***, ***CLI***, ***DDI***, or ***Account Code***.
  - When a report is grouped, each set of grouped records will have its own summary except when there is only one record in the group.
  - Records that do not match the grouping being used will be grouped at the start of the report. For example, in a report grouped by CLI, records that have no associated CLI will be displayed at the start of the report.
  - The grouped records will still contain data appropriate for the selected report targets. For example, in a Call summary report targeted on a queue but grouped by agents, each report record will still detail how the queue handled the call even though the records will be grouped against the answering agents. Therefore, the average answer time for the call will be how long the call was in the queue to get answered by any member of the queue, and not by just the agent who did answer.
  - Following the same logic as hour grouping, if **15 minutes grouping** is selected, the call records will get grouped in 15-minute slabs. For example, xx:00 to xx:14, xx:15 to xx:29, xx:30 to xx:44 and xx:45 to xx:59. Similarly, if **30 minutes** grouping is selected, then call records will get grouped in 30-minute slabs.
- **Optional:** Whether the report includes internal calls is an option.



Call Details Report

11/27/2012 - 11/27/2012 09:00 - 23:00

Report Type	Target Name	Supervisor Name
Call Details Report - All	Queue *	user1

Time Stamp	Call Direction	Number	DDI	Queue	Queue Time	Agent	Duration	Status	Reference
Ungrouped									
11/27/2012 1:24:53 PM	**Inbound**	**8301**	4001	**HG4001**	**00:00:03**	**Extn8401**	**00:00:26**	**New Call**	**000213**
11/27/2012 1:24:53 PM	Inbound	8301	4001	HG4001		Extn8401	00:00:05	Connected	000213
11/27/2012 1:24:58 PM	Inbound	8301	4001	HG4001		Extn8401	00:00:21	Holding	000213
11/27/2012 1:25:19 PM	Inbound	8301	4001	HG4001		Extn8401		Transferred	000213

Summary					
Customer Calls	1	Internal Calls	0	External Inbound Calls	1
				Initiated Outbound Calls	0

The following information is shown for each target:

- **Time Stamp**
  The date and time at which the call entered into the corresponding state.
- **Call Direction**
  Inbound or ***Outbound*** for external calls. ***Internal*** for internal calls.
- **Number**
  For inbound calls, this is the CLI of the caller. For outbound calls, this is the number dialed by the agent. For outgoing external calls, the system can partially mask the number.
- **DDI**
  For incoming calls, the destination number received.
- **Queue**
  The queue to which the call was targeted.
- **Queue Time**
  The duration between the time at which the call entered the queue and the time at which the call was answered, lost, or overflowed. For details on queue time for the respective states, see Status 57.

- **Agent**
  If answered, the agent who answered the call.
- **Duration**
  The duration for which the call was in the corresponding state. Duration for overflowed answered calls is shown only if the report is run using the ***Overflowed Answered*** filter. For details on duration for the respective states, see Status 57.
- **Status**
  - **Connected:** The agent was on the call with the caller. If an agent answers a ringing call, removes a call from hold, or picks up a parked call, the status of the call changes to **Connected**. No queue time is associated with the **Connected** status.
  - **Enquiry Answered:** The agent answered the internal enquiry call from another agent for a supervised call transfer. The queue time associated with the **Enquiry Answered** status is the total queue time for all queues that the call went through. No duration is associated with the **Enquiry Answered** status.
  - **Holding:** The agent put the call on hold. No queue time is associated with the **Holding** status.
  - **Abandoned:** The caller hung up while the call was ringing at the first queue that the call entered. If the target for the report is ***Agent***, the **Abandoned** status is also displayed for the direct calls to the agent and for the **Overflowed Lost** queue calls to show which agent was ringing when the call was lost. The queue time associated with the **Abandoned** status is the total queue time for all queues that the call went through. No duration is associated with the **Abandoned** status.
  - **New Call:** The incoming call - queue call, enquiry call, overflowed call, or direct call - was answered. The queue time associated with the **New Call** status is the total queue time for all queues that the call went through. The duration associated with the **New Call** status is the duration between the time at which the call was answered and the time at which the call was either transferred or disconnected.
    Note: The number of **New Call** status is not the same as **Answered Calls** of Agent Time Card Report and Call Summary Report since the **New Call** status is also reported for the **Enquiry Answered** calls.
  - **No Answer:** The agent did not answer a ringing call within the No Answer Timeout defined for the queue. The queue time associated with the **No Answer** status is the total queue time for all queues that the call went through. No duration is associated with the **No Answer** status.
  - **Not Answered:** The agent disconnected an outgoing call while the call was still ringing at the other end. No queue time or duration is associated with the **Not Answered** status. The **Not Answered** status is not displayed if the report is targeted for queues.
  - **Overflowed Answered:** The call was answered at a queue that it was presented to after overflowing. The queue time associated with the **Overflowed Answered** status is the total queue time for all queues that the call went through. No duration is associated with the **Overflowed Answered** status.
  - **Overflowed Lost:** The caller hung up while the call was ringing at a queue that it was presented to after overflowing. The queue time associated with the **Overflowed Lost** status is the total queue time for all queues that the call went through. No duration is associated with the **Overflowed Lost** status.
  - **Routed to Voicemail:** The call was redirected to voicemail. The queue time associated with the **Routed to Voicemail** status is the total queue time for all queues that the call went through. No duration is associated with the **Routed to Voicemail** status.
  - **Transferred:** The transfer of the call was completed by the transferor. A call that undergoes a transfer shows this status irrespective of whether it is answered or not. No queue time or duration is associated with the **Transferred** status.
- **Reference**
  The unique reference 344 number for a particular call. This number is also reported in reports based on the **Trace Reports** 62 template and can be used as the target for a trace report.

A summary is provided for each item on which the report has been grouped. An additional summary is included at the end of the report for the whole report. The summary details:

- **Customer Calls**
  The total number of unique incoming calls. **Customer Calls** is the sum of **Internal Calls** and **External Inbound Calls**. For the same set of parameters, the value of **Customer Calls** in the report summary of Call Details Report matches the value of **Customer Calls** in the report summary of Call Summary Report.
- **Internal Calls**
  The total number of internal calls.
- **External Inbound Calls**
  The total number of unique external calls received.
- **Initiated Outbound Calls**
  The total number of external calls that are initiated by the agent. An outbound call is counted even if it does not get connected.

Call Details Report and Transferred Calls

For the agent doing the transfer:
For the queue/agent that the call is transferred from, the Call Details Report will detail the following call events:

Call Records	Details included
Answered Call	As per a normal call.
Holding Call	• The **Call Reference**, **Direction**, **Agent**, **Number** and **Queue** are those of the answered call. • The **Date/Time** are when the call was held. • The **Duration** is the time from the call being held to the transfer being completed. • The **DDI** is that of the original call. • The **Queue Time** is blank. • The **Status** is ***Holding***.
Transferred Call	Reports the same details as the original answered call except:- • The **Date/Time** are when the transfer was completed. • The **Queue Time** is blank. • The **Duration** is from the transfer initiation to the end of the transfer (ie. it includes the duration of the enquiry call).

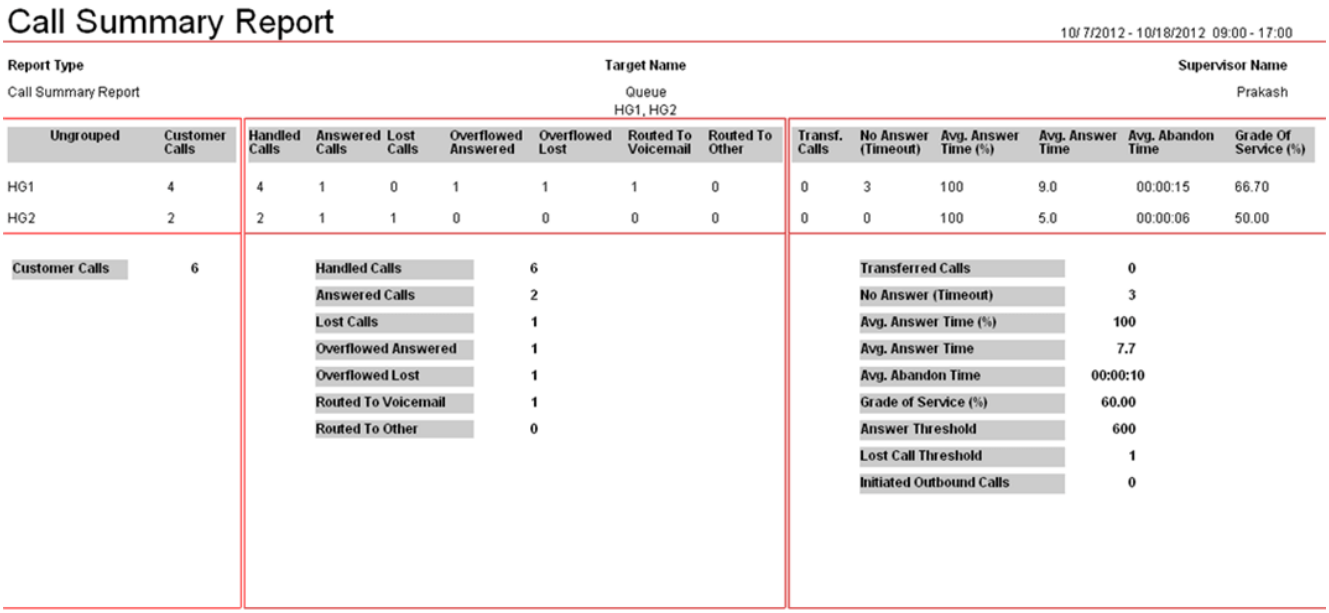
For the queue/agent receiving the transfer:
A call detail report run against the Queue/Agent, that receives a transfer, will detail:

Call Records	Details included
Enquiry Answered	Note that this record is not present for unsupervised transfers. • **Date/Time** is the point ringing is heard. • **Call direction** is internal. • **Number** is the calling parties' number. • **DDI** is the number dialed. • **Queue** is the target queue or blank if agent. • **Queue Time** is the ringing time of the enquiry call. • **Agent** is the agent answering the call. • **Duration** is from the agent answering to the transfer being completed. • **Status** is ***Enquiry Answered***. • **Call Reference** is a new call reference.
Answered Call	Reports the same details as the original transferred call except the following: • The **Date/Time** are when the transfer was completed. • The **Queue** is the target of the transfer. • The **Queue Time** is the time from the initial queuing at the transferee until the transfer is completed. • The **Duration** is from the transfer initiation to the end of the call leg (ie. it includes the duration of the enquiry call).

2.3.7.5 Call Summary Report

The Call Summary Report displays a summary of the calls that are presented to the specified target. The report is divided into three sections. The first section displays the summary of the unique customer calls. The second section displays the summary of the handled calls and the sub-categories: answered calls, lost calls, overflowed answered, overflowed lost, routed to voicemail, and routed to other. The last section displays the summary of the transferred calls, no answer calls, average answer percentage, average answer time, average abandon time, and grade of service.

- **Target options: *Agent***, ***Queue***, ***View***, ***CLI***, ***DDI***, or ***Account Code***.
- **Group Result by: *Ungrouped***, ***Hour, 15 minutes, 30 minutes, Day***, ***Week***, ***Queue***, ***Agent***, ***CLI***, ***DDI*** or ***Account Code***.
  - When a report is grouped, each set of grouped records will have its own summary except when there is only one record in the group.
  - Records that do not match the grouping being used will be grouped at the start of the report. For example, in a report grouped by CLI, records that have no associated CLI will be displayed at the start of the report.
  - The grouped records will still contain data appropriate for the selected report targets. For example, in a Call summary report targeted on a queue but grouped by agents, each report record will still detail how the queue handled the call even though the records will be grouped against the answering agents. Therefore, the average answer time for the call will be how long the call was in the queue to get answered by any member of the queue, and not by just the agent who did answer.
  - Following the same logic as hour grouping, if **15 minutes grouping** is selected, the call records will get grouped in 15-minute slabs. For example, xx:00 to xx:14, xx:15 to xx:29, xx:30 to xx:44 and xx:45 to xx:59. Similarly, if **30 minutes** grouping is selected, then call records will get grouped in 30-minute slabs.
- **Optional:** Whether the report includes internal calls is an option.



Call Summary Report

10/ 7/2012 - 10/18/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	Queue HG1, HG2	Prakash

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
HG1	4	4	1	0	1	1	1	0	0	3	100	9.0	00:00:15	66.70
HG2	2	2	1	1	0	0	0	0	0	0	100	5.0	00:00:06	50.00

Customer Calls	6	Handled Calls	6	Transferred Calls	0
		Answered Calls	2	No Answer (Timeout)	3
		Lost Calls	1	Avg. Answer Time (%)	100
		Overflowed Answered	1	Avg. Answer Time	7.7
		Overflowed Lost	1	Avg. Abandon Time	00:00:10
		Routed To Voicemail	1	Grade of Service (%)	60.00
		Routed To Other	0	Answer Threshold	600
				Lost Call Threshold	1
				Initiated Outbound Calls	0

The following information is shown for each target selected for the report:

- **Customer Calls**
  The total number of unique incoming calls. If you select the **Include Internal** check box, **Customer Calls** also includes internal calls.
- **Handled Calls**
  The total number of incoming calls. **Handled Calls** is the sum of **Answered Calls**, **Lost Calls**, **Overflowed Answered**, **Overflowed Lost**, **Routed To Voicemail**, and **Routed To Other**.
- **Answered Calls**
  The number of answered queue calls 343. If the report target is ***Agent*** or if the report is grouped by ***Agent***, the calls that are answered after overflowing and the direct calls to the agent extension are also included. To understand the varying behavior of this statistic in different scenarios, see CSR/CDR Behavior 313.
  Note: The direct calls to the agent extension are counted as **Answered External Non-Q** in real-time and Agent Time Card Report.
- **Lost Calls**
  The number of lost queue calls. The **Lost Call Threshold** setting does not impact this statistic (the setting is used for calculating Grade Of Service 60). If the report target is ***Agent*** or if the report is grouped by ***Agent***, the calls that are lost after overflowing and the direct calls to the agent are also included.
- **Overflowed Answered**
  The number of queue calls that are answered after overflowing. If the report target is ***Agent*** or if the report is grouped by ***Agent***, the value of **Overflowed Answered** is reported as 0.

- **Overflowed Lost**
  The number of queue calls that are lost after overflowing. Calls lost before the report's **Lost Call Threshold** are not counted. If the report target is ***Agent*** or if the report is grouped by ***Agent***, the value of **Overflowed Lost** is reported as 0.
- **Routed To Voicemail**
  The number of queue calls routed to voicemail.
- **Routed To Other**
  The number of queue calls that are not routed to voicemail and are answered by a party that is neither a member of the original queue nor a member of the queue that the call overflows to. If the report target is ***Agent*** or if the report is grouped by ***Agent***, the direct calls to the agent are also included.
- **Transferred Calls**
  The number of queue calls that are successfully transferred. That is, an unsupervised transfer that is not answered is not counted. If the report target is ***Agent*** or if the report is grouped by ***Agent***, the calls that are direct calls to agents and are transferred are also included.
- **No Answer (Timeout)**
  The number of times a call was presented to an agent and not answered before being presented to another agent.
- **Average Answer Time**
  The sum of the answer time for queue calls answered divided by the number of queue calls answered.

  The Call Summary Report displays the average answer time value in seconds.

  The Average Answer Time is independent of the Average Answer Time threshold. The system includes all the calls received by a particular agent or a queue irrespective of the threshold setting that you have set for Call Summary Report. IP Office Customer Call Reporter calculates the average answer time for all the calls received within the time interval set in the **Working Hours** field.

The Call Summary Report displays the following values unless the report target is an agent (for which the values are blank).

- **Average Answer Time (%)**
  The number of calls answered within the report's specified answer threshold time, divided by the total number of calls answered.
- **Average Abandon Time**
  For lost queue calls, this is the average time from when the calls were received by the IP Office system till they were lost. This value is 0 when the report target is ***Agent***.
- **Grade of Service (%)**
  The number of queue calls answered within the report's answer threshold as a percentage of all calls presented. Calls lost before the report's **Lost Call Threshold** are not included in the calculation. This value is reported for queues but is not reported for agents.

The report summary totals the individual values for all the targets included in the report with the following differences:

- **Lost Call Threshold:** *Default = 1, Range = 1 to 600.*
  The value in seconds used by the report for calculating the **Grade of Service** values. Calls lost before this time are not included in the calculation.
- **Answer Threshold:** *Default = 1, Range = 1 to 600.*
  The value in seconds used by the report for calculating the **Grade of Service** values and **Average Answer %** values.
- **Initiated Outbound Calls**
  The count of outbound calls initiated by any of the target agents. An outbound call is counted even if it does not get connected. If the report target is ***Queue***, the count is 0.
- **Customer Calls**
  The total number of unique calls from a system-wide point of view. It is not necessarily the sum of the target customer calls. For example, a call transferred between agents would show as a unique call for each agent (2 calls total) but in the summary section it shows as a single system call. Another example would be where a call spans 2 time grouping. It would show as a unique call for each of the time group (2 calls total) but in the summary section it would show as a single system call.

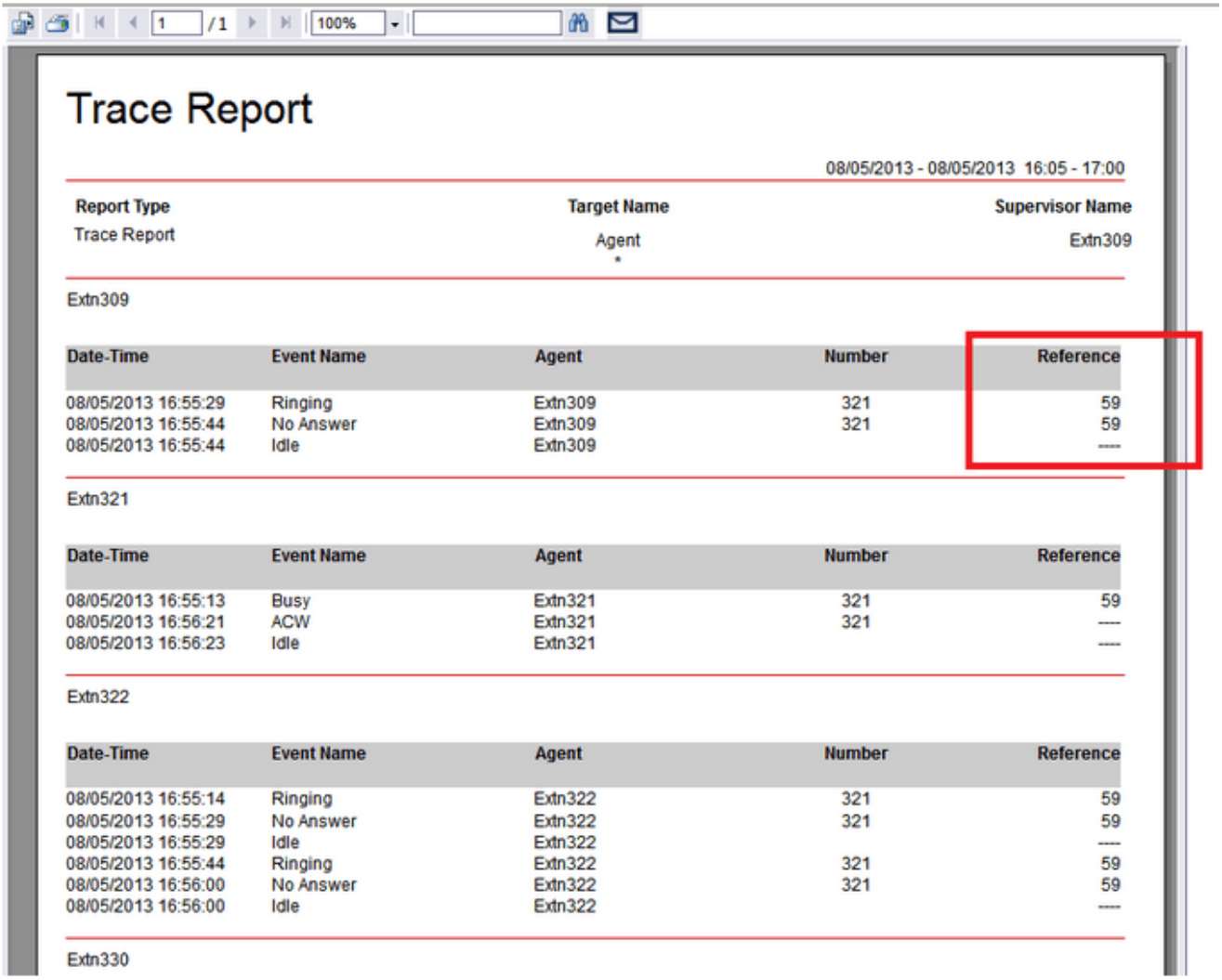
  For the same set of parameters, the value of **Customer Calls** in the report summary of Call Summary Report matches the value of **Customer Calls** in the report summary of Call Details Report.
- **Handled Calls**
  The total number of calls from a system-wide point of view. **Handled Calls** is the sum of **Answered Calls**, **Lost Calls**, **Overflowed Answered**, **Overflowed Lost**, **Routed To Voicemail**, and **Routed To Other**.

Note: Routed To Voicemail, **Routed To Other, Overflowed Lost**, and **Overflowed Answered** are reported against the respective queues from which the calls overflowed.

2.3.7.6 Trace Report

This report lists in chronological order all the events for the selected target or targets within the selected period.

- **Target options:** ***Agent*** 336, ***CLI*** 339, or ***Call Reference*** 344.
  - The call reference for individual calls can be obtained from reports based on the **Call Details** 56 report template.
- **Group Result by:** ***Ungrouped*** *(fixed)*.



Trace Report

08/05/2013 - 08/05/2013 16:05 - 17:00

Report Type	Target Name	Supervisor Name
Trace Report	Agent *	Extn309

Extn309

Date-Time	Event Name	Agent	Number	Reference
08/05/2013 16:55:29	Ringing	Extn309	321	59
08/05/2013 16:55:44	No Answer	Extn309	321	59
08/05/2013 16:55:44	Idle	Extn309		----

Extn321

Date-Time	Event Name	Agent	Number	Reference
08/05/2013 16:55:13	Busy	Extn321	321	59
08/05/2013 16:56:21	ACW	Extn321	321	----
08/05/2013 16:56:23	Idle	Extn321		----

Extn322

Date-Time	Event Name	Agent	Number	Reference
08/05/2013 16:55:14	Ringing	Extn322	321	59
08/05/2013 16:55:29	No Answer	Extn322	321	59
08/05/2013 16:55:29	Idle	Extn322		----
08/05/2013 16:55:44	Ringing	Extn322	321	59
08/05/2013 16:56:00	No Answer	Extn322	321	59
08/05/2013 16:56:00	Idle	Extn322		----

Extn330

For a selected target, the trace report lists all the events that result from a change in the state of the target.

- **Date - Time**
  The date and time of the event.
- **Event Name**
  - **ACW:** The agent went into the After Call Work state.
  - **Available:** The agent was logged in or enabled in a hunt group and could be offered queue calls. If an agent is a member of multiple queues, the trace report lists the **Available** event for each of the queues that the agent is a member of.
  - **Busy:** The agent went off hook.
  - **Busy Not Available:** The agent entered the Busy Not Available state.
  - **Holding:** The agent put a call on hold or parked a call.
  - **Idle:** The agent was idle and could be offered another call.
  - **Incoming External:** The agent received an incoming external call.
  - **Internal Made:** The agent made an internal call that was connected or reconnected.
  - **Internal Received:** The agent received an internal call.
  - **Logged In:** The agent logged in.

- **Logged Off:** The agent logged off.
- **Lost:** The caller disconnected before the agent answered the call.
- **No Answer:** The agent did not answer the call when the call was presented.
- **Outgoing:** The agent made an outgoing external call that was answered.
- **Disabled from Queue:** The agent either logged out or the membership of a queue was disabled for the agent. If an agent who is a member of multiple queues logs out, the trace report lists the **Disabled from Queue** event for each of the queues that the agent is a member of.
- **Ringing:** The agent received an alert for an incoming queue call.
- **Routed To VoiceMail**: The received call was redirected to Voicemail.

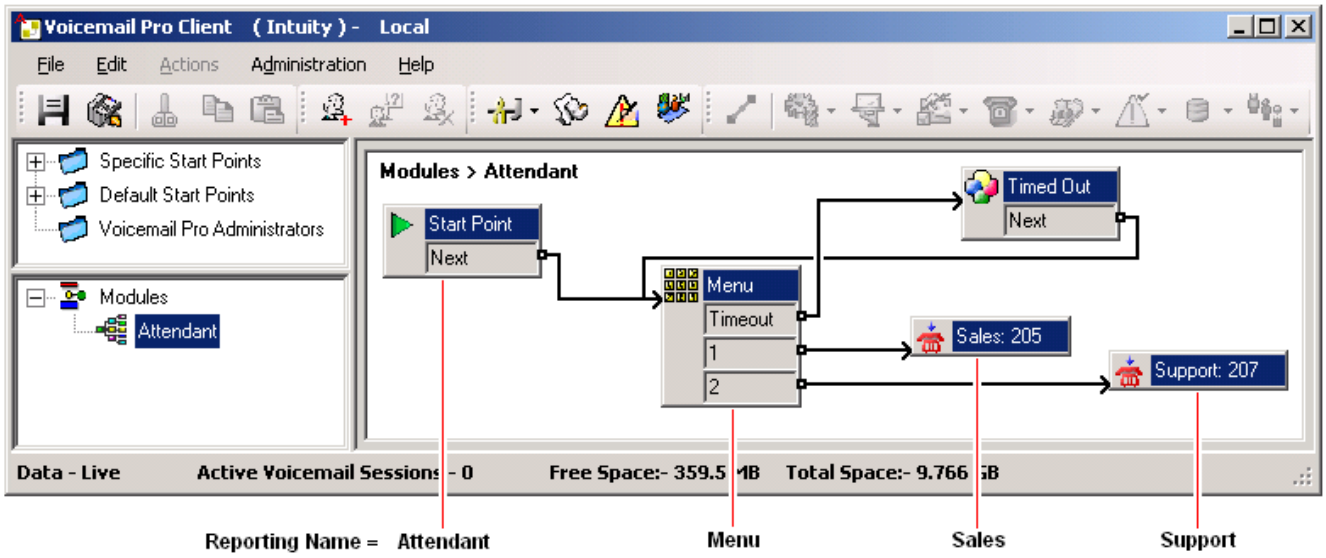
- **Agent**
  The agent to which the event applies.
- **Number**
  For call events, on incoming calls the CLI received with the call, on outgoing calls the number dialed. For outgoing external calls, the system can partially mask the number.
- **Reference**
  The unique call reference 344 number of the call. Shown for events that involve a call, otherwise ***Null***.

2.3.7.7 Voicemail Report

Reports based on the Voicemail Report template of IP Office Customer Call Reporter can be used to track the usage of customized call flows that have been added to Voicemail Pro. The reporting is not automatic, only specific labels that have been assigned to call flow actions are reported on.

- **Target options: *Voicemail*** *(fixed)*.
- **Report on: *All calls*** *(fixed)*.
- **Group Result by: *Ungrouped***, ***Hour***, ***Day***, ***Week***, ***CLI***, or ***DDI***.
  - When a report is grouped, each set of grouped records will have its own summary except when there is only one record in the group.
  - Records which do not match the grouping being used will be grouped at the start of the report. For example, in a report grouped by CLI, records that have no associated CLI will be displayed at the start of the report.
  - The grouped records will still contain data appropriate for the selected report targets. For example, in a Call summary report targeted on a queue but grouped by agents, each report record will still detail how the queue handled the call even though the records will be grouped against the answering agents. Therefore, the average answer time for the call will be how long the call was in the queue to get answered by any member of the queue, and not by just the agent who did answer.

The example Voicemail Pro call flow below is a simple auto attendant that lets callers select to be transferred to either sales or support.



Reporting names have been assigned to some of the actions in the call flow. For example, the **Start Point** action has been given the name ***Attendant*** (see Adding a Name to an Action 65 below). The names are used in IP Office Customer Call Reporter reports based on the Voicemail Report template.

VoicemailReport

14/01/2009 - 14/01/2009 07:44 - 17:00

Report Type	Target Name	Supervisor Name
Voicemail Report	Voicemail	Mark Gallagher

Name	No. of Calls	No.Lost Calls	No. of Times triggered
Attendant	7	0	7
Menu	5	3	8
Sales	2	0	2
Support	2	0	2
Summary	7	3	20

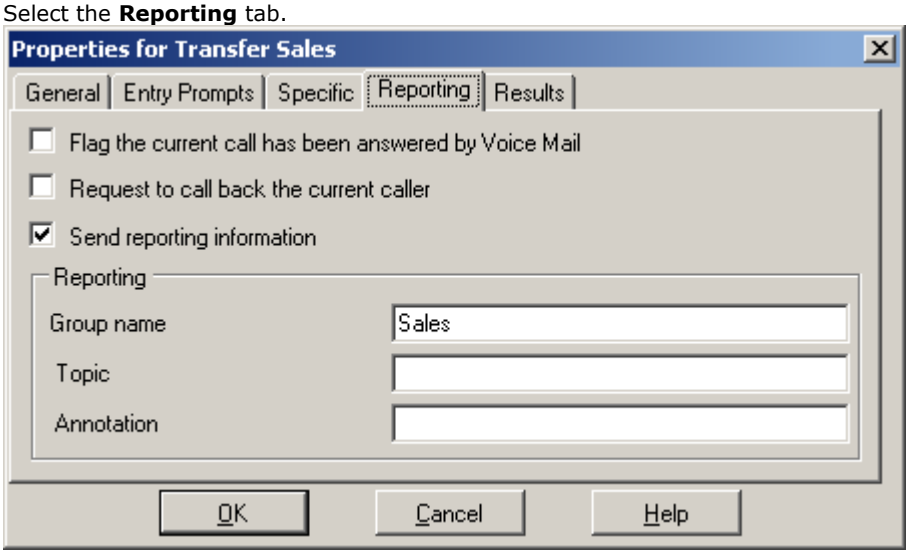
Total calls Answered	7	Total calls Lost	3

- **Name**
  This is the text name assigned to an action or actions in Voicemail Pro customized call flows.
  - The same name can be assigned to several actions in the same call flow and to actions in different call flows. For example, if you have several call flows with actions that transfer calls to your Sales team, you can name all those actions as "Sales". This will result in a single reporting line in the Voicemail report for calls that went from voicemail to sales, independent of the actual call flow used.

- **No. of Calls**
  When a call reaches a named action it is counted as an answered call for that name.
- **No. Lost Calls**
  If, having reached a named action, the call is disconnected by the caller or by the voicemail server before it reaches another named action, it is counted as lost.
- **No. of Times Triggered**
  Each time a call reaches a named action, the call is counted as having triggered that name. The same call can be counted as triggering the same action more than once if the call flow loops. Note however that the call must go via another named action rather than simply looping from one of the named actions own result.

Adding a Reporting Name to a Voicemail Action

1. Double-click the action.
2. Select the **Reporting** tab.



3. Select **Send reporting information**.
4. In the **Group name** field enter the name to associate with the action. This is the name that will be used in reports based on the Voicemail Report template. None of the other fields are used by IP Office Customer Call Reporter.
5. Click **OK**.

2.3.8 Custom Report Types

In addition to the standard report types, you can create personalized report templates from custom report types. In IP Office Customer Call Reporter, you can create custom report types using Custom Reporting Wizard. Alternatively, you can contact your administrator to get the custom report type files.

To make a custom report type available for use, proceed in one of the following ways:

- **Create a new custom report type** 69
  Use Custom Reporting Wizard to create a new custom report type.
- **Upload a custom report type file** 68
  Upload a custom report type file, a **.rdl** file, to your IP Office Customer Call Reporter supervisor account. You can get a **.rdl** file from your administrator or from another supervisor. You can also create a new **.rdl** file using the Microsoft Report Builder tool.
- **Copy a report template based on a custom report type** 47
  Copy a report template based on a custom report type from another supervisor to your IP Office Customer Call Reporter supervisor account. The system copies the associated custom report type file to your IP Office Customer Call Reporter supervisor account automatically.

If you select a custom report type from the list of available report types, you can access the same functions as for the standard report types. For details, see Using Custom Report Types 67.

Microsoft Report Builder

Microsoft Report Builder is the application that you use to create and edit the **.rdl** files for use with IP Office Customer Call Reporter. You can then upload the **.rdl** files to IP Office Customer Call Reporter for use as custom report types.

Microsoft Report Builder is installed on the IP Office Customer Call Reporter server as part of the IP Office Customer Call Reporter installation. Use the links displayed in your IP Office Customer Call Reporter supervisor account to run Microsoft Report Builder 68.

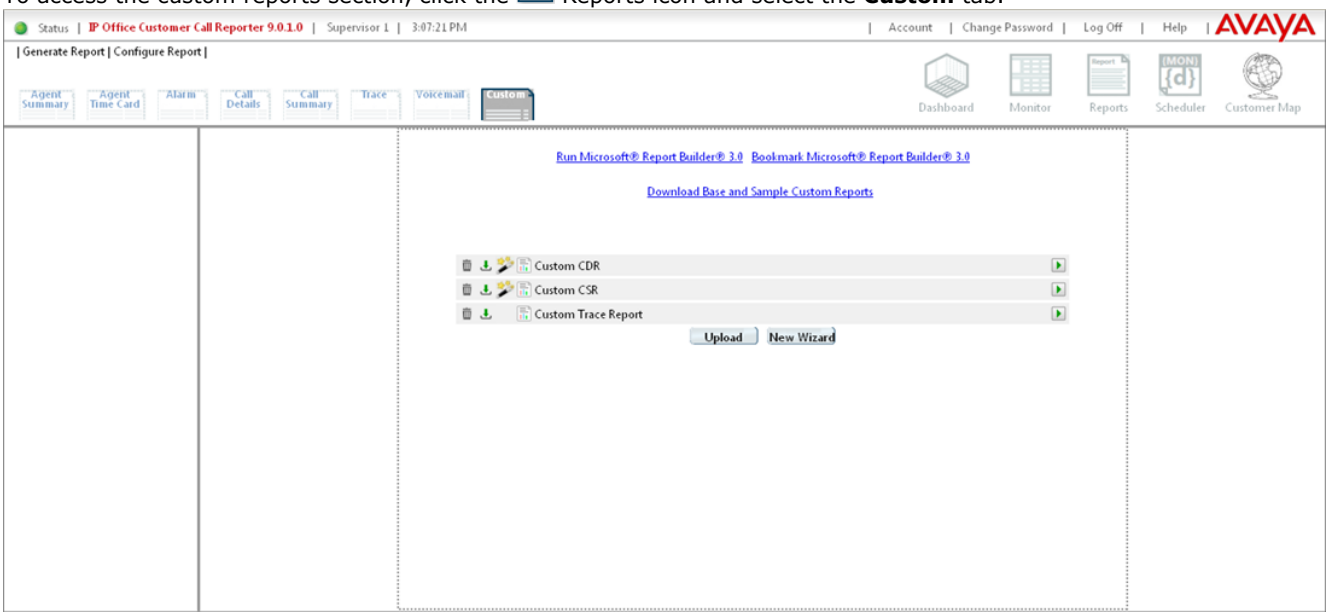
- If the system does not display the links, it may indicate that the Microsoft Report Builder configuration on the IP Office Customer Call Reporter server is not complete. Contact your system maintainer for the configuration.

After you install Microsoft Report Builder application on your computer, you can also open the application using the **Start** menu or a desktop shortcut on your computer.

For details on using Microsoft Report Builder to create custom report types, see the *Avaya IP Office IP Office Customer Call Reporter Custom Reporting* and *Avaya IP Office Custom Report Walkthrough* manuals. Also a range of information is available on the Microsoft support site.

2.3.8.1 Accessing Custom Report Types

To access the custom reports section, click the Reports icon and select the **Custom** tab.



The system displays the list of available custom report types along with the controls to perform various operations on the report types. The system also displays the links to run and bookmark Microsoft Report Builder.

- If the system does not display the links, it may indicate that the Microsoft Report Builder configuration on the IP Office Customer Call Reporter server is not complete. Contact your system maintainer for the configuration.

To delete a custom report type

1. Click next to the custom report type that you want to delete.

- **! WARNING**
  Deleting a custom report type also deletes any saved report templates and recent reports that are based on the deleted custom report type.

2. Click **Yes** to confirm the deletion.

To download a custom report type

In the list of available custom report types, click next to the report type that you want to download.

To use a custom report type

In the list of available custom report types, click next to the report type that you want to use.

The system displays the **Save Report Template** and **Recent Reports** lists for the selected custom report type in the left pane. You can then access the same functions as for the standard report types:

- **Creating a Report Template** 38.
- **Running a Manual Report** 42.
- **Deleting a Report** 48.
- **Viewing Recent Reports** 49.

To edit a custom report type

In the list of available custom report types, click  next to the report type that you want to edit.

Note: The  icon is available only for the custom report types that are created using Custom Reporting Wizard (irrespective of the supervisor account and the CCR server used to create the report type). To edit a custom report type that is not created using Custom Reporting Wizard, you must download the report type and edit the report file using Microsoft Report Builder. For details, see *Avaya IP Office IP Office Customer Call Reporter Custom Report Walkthrough*.

To upload a custom report type

1. Click **Upload**.
   The system displays the **Report Name** and **Select File** fields.
2. In the **Report Name** field, enter a name for the report.
3. Click **Browse** and locate the custom report type file (**.rdl** file) that you want to upload.
   The system displays the file path in the **Select File** field.
4. Click **OK**.
   The system lists the new custom report type in the list of available custom report types.

To create a new custom report type

Click **New Wizard**.

The system opens the Custom Reporting Wizard 69.

Note: You can also create a new custom report type using Microsoft Report Builder. For details on using Microsoft Report Builder to create a custom report file, see *Avaya IP Office IP Office Customer Call Reporter Custom Report Walkthrough.*

To run Microsoft Report Builder

1. Click the **Run Microsoft® Report Builder® 3.0** link.
2. If you get the prompt, enter a name and password to access the IP Office Customer Call Reporter server.
   Note: If Microsoft Report Builder is not installed on your system, follow the prompts to download and install the application.

For details on using Microsoft Report Builder to create a custom report file, see *Avaya IP Office IP Office Customer Call Reporter Custom Report Walkthrough.*

To bookmark Microsoft Report Builder

Click the **Bookmark Microsoft® Report Builder® 3.0** link.

To download sample custom report types

Click the **Download Base and Sample Custom Reports** link.

2.3.8.2 Creating a Custom Report Type

Using Custom Reporting Wizard in simple mode

1. Click the Reports icon and select the **Custom** tab.
2. Click **New Wizard**.
   The system displays the **Create Custom Report** screen of Custom Reporting Wizard.
3. Enter a name for the custom report type in the **Enter a report name for the title** field, and set the available options 71.
4. Click **Next**.
5. Select the **Data Type** for the custom report type. For example, to base the report type on call data, select **Calls**.
6. Click **Next**.
7. Select the **Table Fields** for the custom report type.

- Drag and drop an item from the left box (list of available data fields) to the right box (list of selected data fields) to select the item.
- Drag and drop an item from the right box (list of selected data fields) to the left box (list of available data fields) to remove the item.
- Drag and drop an item within the right box to reorder the item in the list. You can also click an item in the right box to swap it with the item that follows it in the list.
- Set the available options for table fields 72.

  Note: The data fields that you select appear as columns in the report table in the same order in which you list the fields in the right box. Though you can add any number of available fields to the right box, add only an optimum number of fields to avoid a poor layout of the table.

8. Click **Next**.
   The system displays a summary of the chosen settings.
9. Click **Create**.
   The system creates the custom report type and displays the list of available custom report types highlighting the new report type.

Using Custom Reporting Wizard in advanced mode

1. Click the Reports icon and select the **Custom** tab.
2. Click **New Wizard**.
   The system displays the **Create Custom Report** screen of Custom Reporting Wizard.
3. In the left pane, select the **Use Advanced Mode** check box.
4. Enter a name for the custom report type in the **Enter a report name for the title** field, and set the available options 71.
5. Click **Next**.
6. (Optional) Enter a name for the table object in the **Enter an object name** field, and set the available options 71.
7. Click **Next**.
8. Select the **Data Type** for the custom report type. For example, to base the report type on call data, select **Calls**.
9. Click **Next**.
10. Select the **Table Fields** for the custom report type.

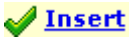
- Drag and drop an item from the left box (list of available data fields) to the right box (list of selected data fields) to select the item.
- Drag and drop an item from the right box (list of selected data fields) to the left box (list of available data fields) to remove the item.
- Drag and drop an item within the right box to reorder the item in the list. You can also click an item in the right box to swap it with the item that follows it in the list.
- Set the available options for table fields 72.

  Note: The data fields that you select appear as columns in the report table in the same order in which you list the fields in the right box. Though you can add any number of available fields to the right box, add only an optimum number of fields to avoid a poor layout of the table.

11. Click **Next**.
12. (Optional) Add summary items to the report as follows:

i. Click **New** to add a new summary item.

ii. Set the available table summary options 73 for the summary item.

iii. Click  on the context menu to insert the summary item.

iv. Set the Items per page 73 and Add the number of table rows 73 options as you require.

Note: To edit or delete an added summary item, click  or  respectively, and follow the prompts.

13. Click **Next**.

14. (Optional) Set the available options for table styling 74.

15. Click **Next**.

16. The system displays a summary of the chosen settings.

17. Click **Create**.
    The system creates the custom report type and displays the list of available custom report types highlighting the new report type.

Using Microsoft Report Builder

For details on using Microsoft Report Builder to create custom report types, see the *Avaya IP Office IP Office Customer Call Reporter Custom Reporting* and *Avaya IP Office Custom Report Walkthrough* manuals. Also a range of information is available on the Microsoft support site.

2.3.8.3 Custom Reporting Wizard options - Generic

Option	Description
Title color	Use this option to set the color in which you want the report title or an object title to appear. See the box next to the  icon to view the currently set color.  - Displays the palette from which you can choose a color. The default color is black.
Paper size and print orientation	Use this option to set the paper size and print orientation for printing the report. You can select one of the following as the paper size: • **A4** (*default*) • **Letter** • **Legal** You can select one of the following as the print orientation: • **Landscape** • **Portrait** (*default*)
Layout	Use this option to select the number of objects and the layout for the report. You can select one of the following as the layout: •  (*default*) •  •  • 
Logo image	Use this option to select an image for the system to display a logo in the report. Click **Browse** to locate an image file in the **.jpg**, **.jpeg**, **.png**, **.bmp**, or **.gif** format on the local drive or a network drive and click **Select** to set the image as the logo. You can select one of the following as the position of the logo relative to the title: • **Left** (*default*) • **Right** By default, the system does not display a logo.
Language for prompts and messages	Use this option to set the language that the system uses to display prompts and messages. Note that setting this option does not affect captions displayed in the report, for example, table headers. The system displays captions in English. You can select one of the following as the language that the system uses to display prompts and messages: • **Deutsch** • **English-UK** • **English-US** • **Español** • **Français** • **Italiano** • **Nederlands** • **Português (Brasil)** • **Русский-Россия** The language that you select at the login 25 is the default language.

2.3.8.4 Custom Reporting Wizard options - Table fields

Option	Description
Group table rows by	Use this option to select the field by which you want to group the table rows. If you select the default **[None]**, the system does not group the table rows. This option might be unavailable depending on the **Data Type** that you select for the custom report type. Also note that only those fields that you select to include in the table are available to you in the **Group table rows by** drop-down list.
Expand group by default	Use this option to set whether the groups in a report are expanded by default when the system generates the report. Note that irrespective of how you set this option, all groups in a scheduled report or a recent custom report are expanded by default. This option is unavailable if the **Group table rows by** field is set to **[None]**.
Filter table rows by	Use this option to select a filter available for the **Data Type** that you select for the custom report type. If you select the default **All**, the system does not apply any filter. This option might be unavailable depending on the **Data Type** that you select for the custom report type.
Sort table rows first by	Use this option to select the first sort criteria field to sort the table rows in the report. If you select the default **[Default]**, the system sorts the table rows by the default field for the selected data type. Select one of the following to set the corresponding sort order, ascending or descending: • **Asc** • **Desc**
Sort table rows second by	Use this option to select the second sort criteria field to sort the table rows in the report. The default is **[None]**. Select one of the following to set the corresponding sort order, ascending or descending: • **Asc** • **Desc**

Notes:

- The **Sort table rows first by** and **Sort table rows second by** are not available in the simple mode.
- Fields that begin with the same name or aggregated name as data type will have specific field values occurring per row of the table, other fields may be summary values. For example, if the selected data type is **Calls**, then all the call-related table fields will be specific to each row and all other fields such as agent fields will be specific to the summary row.
- If you choose to group the table rows, the number of rows in the report does not change, but only the manner in which the rows are grouped changes. To be able to understand the report better, include the columns that help you distinguish the data in one row from that in the others. For example, for the **Calls** data type, the **Call Status** field can help you distinguish the data in the table rows better.

2.3.8.5 Custom Reporting Wizard options - Table summary

Option	Description
Caption Text	Use this option to enter the text that the system displays as the summary item caption.
Field	Use this option to select the field from those available in the data set. **Note:** If you are editing a report, the **Field** and **Function** fields may show different but equivalent fields (taken together) than what you select when creating the report. For example, if you select **Agent Hold Time** in the **Field** field and **Sum** in the **Function** field when creating the report, you see **Agent Total Hold Time** in the **Field** field and **None** in the **Function** field when editing the report.
Function	Use this option to select the aggregate function that the system applies to the field to calculate the summary item value. You can select one of the following as the summary item function: • **Sum** (*default*) • **Mean Average** • **Maximum** • **Minimum** • **Count** • **Distinct Count** • **First** • **Last** • **Standard Deviation** • **Variance** If you select a field that is already aggregated (for example, the **Queue Total Presented Calls** field in the **Queues** data type), the above listed functions become unavailable and **None** is selected by default. **None** is unavailable otherwise. **Note:** If you are editing a report, the **Field** and **Function** fields may show different but equivalent fields (taken together) than what you select when creating the report. For example, if you select **Agent Hold Time** in the **Field** field and **Sum** in the **Function** field when creating the report, you see **Agent Total Hold Time** in the **Field** field and **None** in the **Function** field when editing the report.
Location	Use this option to set the location that the system displays the summary item in. You can select one of the following as the location for the summary item: • **Group:** The system displays the summary item in the group summary only. • **Table:** The system displays the summary item in the report summary only. • **Both:** The system displays the summary item in the group summary and the report summary. **Group** and **Both** are unavailable if the **Group table rows by** field in the table field options 72 is set to **[None]**.
Items per page	Use this option to set the number of summary items that Custom Reporting Wizard displays on one page when you are adding summary items. If the number of items that you add exceeds this value, the system displays paging controls that enable you to move between the pages. This option is unavailable if you add no summary items.
Add the number of table rows	Use this option to add the number of rows as a summary item. If you select the **Select to add the number of table rows** check box, the system displays the number of rows in a group in the respective group summary (depending on whether a group field is selected) and the number of table rows in the report summary.

2.3.8.6 Custom Reporting Wizard options - Table styling

Option	Description
Apply checkerboard effect to the table rows	Use this option to apply checkerboard effect to the rows of the table.
Include row numbers for the table	Use this option to include a column to display row numbers in the table.
Show only group and report summary	Use this option for the system to display only group and report summary in the report. If you select this option, the system does not display any data rows.
Table row background color	Use this option to set the background color of the rows in the table. See the box next to the  icon to view the currently set color.  - Displays the palette from which you can choose a color. The default color is white.
Table row text color	Use this option to set the color of the text displayed in the rows of the table. See the box next to the  icon to view the currently set color.  - Displays the palette from which you can choose a color. The default color is black.
Table header background color	Use this option to set the background color of the header row in the table. See the box next to the  icon to view the currently set color.  - Displays the palette from which you can choose a color. The default color is blue.
Table header text color	Use this option to set the color of the text displayed in the header row of the table. See the box next to the  icon to view the currently set color.  - Displays the palette from which you can choose a color. The default color is white.

2.3.8.7 Table Filter Definitions (Custom Reporting Wizard)

The following table lists the fields that you can use in Custom Reporting Wizard to filter table rows. Most of the types are self-explanatory. Those that are type **Condition** (Boolean values) take the value 0 or 1.

Field Name	Definition
Abandoned Status Only	Includes calls with abandoned status only.
Active Agents Only	Includes only agents that are current CCR agents in the IP Office configuration.
Active Queues Only	Includes only queues that are current CCR agents in the IP Office configuration.
After Call Work Events Only	Includes after call work (ACW) events only.
Agent Alarms Only	Includes only critical alarms targeted at agents.
Agent and Queue State Alarms Only	Includes only agent state or queue state based critical alarms.
Agent and Queue State Only	Includes only agent state or queue state based alarms.
Agent and Queue State Warnings Only	Includes only agent state or queue state based warning alarms.
Agent Only	Includes only alarms targeted at agents.
Agent State Alarms Only	Includes only agent state based critical alarms.
Agent State Only	Includes only agent state based alarms.
Agent State Warnings Only	Includes only agent state based warning alarms.
Agent Warnings Only	Includes only warning alarms targeted at agents.
Alarms Only	Includes only critical alarms.
Answered Only	Includes voicemail calls that were answered.
Available Events Only	Includes available events only.
Busy All Events Only	Includes all types of busy events only.
Busy Alt-Q Events Only	Includes busy alternative queue events only.
Busy Non-Q Events Only	Includes busy non queue events only.
Busy Not Available Events Only	Includes busy not available (BNA) events only.
Call Events Only	Includes only events related to calls.
Cleared Agent Alarms Only	Includes only cleared (non-active) critical alarms targeted at agents.
Cleared Agent Only	Includes only cleared (non-active) alarms targeted at agents.
Cleared Agent Warnings Only	Includes only cleared (non-active) warning alarms targeted at agents.
Cleared Alarms Only	Includes only cleared (non-active) critical alarms.
Cleared Only	Includes only cleared (non-active) alarms.
Cleared Downtimes Only	Includes downtimes that are cleared (non-active) only.
Cleared Queue Alarms Only	Includes only cleared (non-active) critical alarms targeted at queues.
Cleared Queue Only	Includes only cleared (non-active) alarms targeted at queues.
Cleared Queue Warnings Only	Includes only cleared (non-active) warning alarms targeted at queues.
Cleared Warnings Only	Includes only cleared (non-active) warning alarms.
Clearing Events Only	Includes clearing events only.
Connected Events Only	Includes call connected events only.
Connected Status Only	Includes calls with connected status only.
Empty Reason Descriptions Only	Includes only state based alarms with no reason description specified.
Empty Reason Description Events Only	Includes only events with no reason description specified.
Enquiry Answered Status Only	Includes calls with enquiry answered status only.
Exclusive Agent Events Only	Includes only events that are exclusive on the agent handset.
First Connected and No Outbound Connected Calls	Includes first connected event per-call and outbound connected events only.
First Connected and No Outbound Initiated Calls	Includes first connected event per-call and incoming or internal calls only.
First Connected Only	Includes first connected event per-call only.
Holding Events Only	Includes holding events only.
Holding Status Only	Includes calls with holding status only.
Idle Events Only	Includes idle events only.
Inactive Agents Only	Includes only agents that have been removed from the IP Office configuration.
Inactive Queues Only	Includes only queues that have been removed from the IP Office configuration.
Incoming Events Only	Includes incoming events only.
Internal Made Events Only	Includes internal made events only.
Internal Received Events Only	Includes internal received events only.
Logged In Events Only	Includes logged in events only.
Logged Off Events Only	Includes logged off events only.
Lost Events Only	Includes call lost events only.
Lost Only	Includes voicemail calls that were lost.
New Call Status Only	Includes calls with new call status only.

Field Name	Definition
No Outbound Connected Calls	Includes no outbound connected events.
No Outbound Initiated Calls	Includes incoming or internal calls.
Non-call Events Only	Includes only events not related to calls.
Non-cleared Agent Alarms Only	Includes only active (non-cleared) critical alarms targeted at agents.
Non-cleared Agent Only	Includes only active (non-cleared) alarms targeted at agents.
Non-cleared Agent Warnings Only	Includes only active (non-cleared) warning alarms targeted at agents.
Non-cleared Alarms Only	Includes only active (non-cleared) critical alarms.
Non-cleared Only	Includes only active (non-cleared) alarms.
Non-cleared Downtimes Only	Includes downtimes that are active (non-cleared) only.
Non-cleared Queue Alarms Only	Includes only active (non-cleared) critical alarms targeted at queues.
Non-cleared Queue Only	Includes only active (non-cleared) alarms targeted at queues.
Non-cleared Queue Warnings Only	Includes only active (non-cleared) warning alarms targeted at queues.
Non-cleared Warnings Only	Includes only active (non-cleared) warning alarms.
Non-empty Reason Descriptions Only	Includes only state based alarms with specified reason description.
Non-empty Reason Descriptions Only	Includes only events with specified reason description.
Non-exclusive Agent Events Only	Includes only events that are not exclusive on the agent handset.
Non-Queue and First Connected Calls Only	Includes non-queue calls and first connected event per-call only.
Non-Queue Calls Only	Includes non-queue calls only.
Non-Queue Only and No Outbound Connected Calls	Includes non-queue calls and no outbound connected events only.
Non-Queue Only and No Outbound Initiated Calls	Includes non-queue calls and incoming or internal calls only.
Non-Queue, First Connected Only and No Outgoing Connected Calls	Includes non-queue calls, first connected event per-call and no outbound connected events only.
Non-Queue, First Connected Only and No Outgoing Initiated Calls	Includes non-queue calls, first connected event per-call and incoming or internal calls only.
Not Answered Status Only	Includes calls with not answered status only.
Off Hook Events Only	Includes off hook events only.
Outbound Connected Calls Only	Includes outbound calls with connected status only.
Outbound Initiated Calls Only	Includes outbound calls.
Outgoing Events Only	Includes outgoing events only.
Overflow Answered Status Only	Includes calls with overflow answered status only.
Overflow Lost Status Only	Includes calls with overflow lost status only.
Queue Alarms Only	Includes only critical alarms targeted at queues.
Queue and First Connected Calls Only	Includes queue calls and first connected event per-call only.
Queue Disabled Events Only	Includes queue disabled events only.
Queue Only	Includes only alarms targeted at queues.
Queue Calls Only	Includes queue calls only.
Queue State Alarms Only	Includes only queue state based critical alarms.
Queue State Only	Includes only queue state based alarms.
Queue State Warnings Only	Includes only queue state based warning alarms.
Queue Warnings Only	Includes only warning alarms targeted at queues.
Refused Events Only	Includes call refused events only.
Refused Status Only	Includes calls with refused status only.
Ringing All Events Only	Includes all types of ringing events only.
Ringing Alt-Q Events Only	Includes ringing alternative queue events only.
Ringing Events Only	Includes ringing events only.
Ringing Non-Q Events Only	Includes ringing non queue events only.
Routed To Voicemail Events Only	Includes call routed to voicemail events only.
Routed To Voicemail Status Only	Includes calls with routed to voicemail status only.
Subsequent Connected Only	Includes subsequent (not first) connected event per-call only.
Transferred Status Only	Includes calls with transferred status only.
Warnings Only	Includes only warning alarms.

2.3.8.8 Dataset Definitions

The following table lists the fields that you can access for generating custom reports. Note that you can access these fields irrespective of whether you use Microsoft Report Builder or Custom Reporting Wizard.

Most of the types are self-explanatory. Those that are type **Condition** (Boolean values) take the value 0 or 1.

Field Name	Type	Definition
Agent_After_Call_Work_Time	Time duration	Total time for which the agent's extension is in the After Call Work (ACW) state. It is the sum of all the items that are displayed in the ACW Time column of Agent Summary Report and correspond to the ACW times in the queues that the agent is a member of. ACW state indicates that the agent is not available to receive queue calls while they perform some other call-related activity. ACW state is independent of queue memberships and enabled state and is typically used for activities such as creating call records and data entry that need to be completed before handling another call. A number of controls are available for ACW. Agents can be configured to be automatically put into the ACW state after a queue call or they can manually select to enter the state when required. **Note:** The ACW state is similar to busy wrap up of the CCC product.
Agent_Answered_Calls	Numeric	Number of queue calls that are answered by the agents. It is same as the item displayed in the Answered Calls column in Call Summary Report. It includes the calls that are displayed as routed to other in real-time. It does not include queue calls that are answered by non-queue members using methods such as call pickup, calls that go to voicemail, and direct calls answered by agents.
Agent_Answered_Outside_999_Seconds_Calls	Numeric	Number of queue calls that are answered by the agents, with a wait time of more than 999 seconds.
Agent_Answered_Within_10_Seconds_Calls	Numeric	Number of queue calls that are answered by the agents, with a wait time of less than 10 seconds.
Agent_Answered_Within_120_Seconds_Calls	Numeric	Number of queue calls that are answered by the agents, with a wait time of less than 120 seconds.
Agent_Answered_Within_20_Seconds_Calls	Numeric	Number of queue calls that are answered by the agents, with a wait time of less than 20 seconds.
Agent_Answered_Within_30_Seconds_Calls	Numeric	Number of queue calls that are answered by the agents, with a wait time of less than 30 seconds.
Agent_Answered_Within_60_Seconds_Calls	Numeric	Number of queue calls that are answered by the agents, with a wait time of less than 60 seconds.
Agent_Answered_Within_999_Seconds_Calls	Numeric	Number of queue calls that are answered by the agents, with a wait time of less than 999 seconds.
Agent_Average_Answer_Time_Seconds	Time span	Average answer time for an agent calculated as a simple, non-weighted mean of the call answer times. It is same as the item displayed in the Average Answer Time column in Call Summary Report. It is the sum of the answer times in seconds for answered queue calls divided by the number of answered queue calls. The system considers the calls received by a particular agent or a queue irrespective of the answer threshold setting. The average answer time for a call is measured from it arriving at the queue or agent, but there may be a delay between the time a call is presented to a queue and the time the call arrives to the agent. It does not include direct calls to the agent. For example, if an agent has only answered one queue call in 6 seconds and then a second queue call in 8 seconds, the average answer time is 7 seconds. If the agent has answered no calls, then the value is 0.
Agent_Average_Duration	Time duration	The average talk time for the agent, as displayed in the Av Total cell of the Agent Timecard Report. It includes queue calls and direct calls to agent extension. However, it does not include internal calls.
Agent_Average_Inbound_Duration	Time duration	The average inbound talk time for the agent, as displayed in the Av In cell of the Agent Timecard Report. It includes queue calls and direct calls to agent extension. However, it does not include internal calls.
Agent_Average_Outbound_Duration	Time duration	The average outbound talk time for the agent, as displayed in the Av Out cell of the Agent Timecard Report. It includes queue calls and direct calls to agent extension. However, it does not include internal calls.
Agent_Average_Speed_To_Answer_Percent	Numeric	Number of calls answered within the answer threshold time, divided by the total number of calls answered, expressed as a percentage. It shows the number of queue calls answered by the agent within the specified answer threshold time, divided by the total number of calls answered. For example, with an answer threshold of 30 seconds, 35 calls into an agent were answered within the target time, 5 calls were answered after 30 seconds. The calculation would be Answered Within Threshold / Answered = 35 / 40 = 0.875. The average speed to answer percentage (ASA%) therefore is 87.5%. If no calls have been answered within the answer threshold, the value is 0%, or if no calls have been answered at all then the value is 100%.
Agent_Break_Duration	Time duration	The total amount of time the agent went into and came out of other Busy Not Available states other than reason code 1. It is displayed in the Break cell in Agent Timecard Report.

Field Name	Type	Definition
Agent_Busy_Not_Available_Time	Time duration	Total time for which an agent's extension is in the Busy Not Available state. It is the sum of all the items that are displayed in the Busy Not Available Time column of Agent Summary Report and correspond to the Busy Not Available times in the queues that the agent is a member of. The Busy Not Available state indicates that an agent is not available to receive calls while performing an activity that is not call-related such as attending a meeting. It is independent of queue memberships and enabled state. This state can be selected by an agent using the Do Not Disturb (DND) or Send All Calls (SAC) button of the telephone. This also requires the agent to select one of the reason codes displayed on the telephone to indicate the reason for getting into the Busy Not Available state. If this state is enabled while a queue call is being presented, the call will go to the next available agent and cause the No Answer statistic for the agent and the queue to be incremented. An agent using the DND or SAC feature is treated as selecting the Busy Not Available state.
Agent_Customer_Calls	Numeric	Total number of unique calls handled by an agent, that is, the number of calls with unique values for the Call_ID field as displayed in the Customer Calls column in Call Summary Report.
Agent_Email_Address	Alphanumeric	E-mail address of the agent account.
Agent_End_Date_Time	Date and Time	Date and time of the agent account deletion, empty if the agent is still active.
Agent_Extension_Number	Alphanumeric	Extension number of the agent account.
Agent_Full_Name	Alphanumeric	Full display name of the agent account.
Agent_Grade_Of_Service_Percent	Numeric	Number of queue calls answered within the answer threshold as a percentage of all calls presented. Calls lost before the lost call threshold are not included in the calculation, measured from when the call was presented to the agent, and it does not include calls that are routed elsewhere or to voicemail. It includes calls that become lost calls. For example, with an answer threshold of 30 seconds and a lost call threshold of 5 seconds, if 20 calls into a queue are answered within the target time, 4 calls are answered after 30 seconds and 1 call is lost after 10 seconds. The calculation would be Answered Within Threshold / (Answered + Lost Outside Threshold) = 20 / (24 + 1) = 20 / 25 = 0.8. The Grade of Service, therefore, is 80%. If no calls are answered within the answer threshold, the value is 0%, or if no calls are answered or lost at all then the value is 100%.
Agent_Handled_Calls	Numeric	The total number of incoming calls for the agent. It is the sum of answered, lost, routed to voicemail and routed to other call statistics for an agent. This is also the sum of the presented calls and routed to other calls for an agent and is displayed in the Handled column of Call Summary Report. The same call may be presented more than once, therefore this value is different from the number of unique customer calls.
Agent_Hold_Time	Time duration	Total time for which the agent had calls on hold or had calls parked. It is the sum of all the hold times in the queues that the agent is a member of, as displayed in the Hold Time column in Agent Summary Report. In this state the agent is not talking to a caller.
Agent_ID	Numeric	Unique identification number for an agent, as used in system configuration.
Agent_ID	Numeric	Unique identification number for an agent, as used in system configuration. For the Events data set, it and other event related fields may not be set if the event is not call related.
Agent_Inbound_Non_Queue_Answered_Calls	Numeric	The sum of the number of external inbound calls that are targeted directly to the agent and answered by the agent, targeted to another queue and picked up by the agent using call pickup, or targeted directly to another agent and picked up by the agent using call pickup. It does not include queue calls to a queue of which the agent is a member. It is displayed in the Answered Ext Non-Q cell of Agent Timecard Report.
Agent_Inbound_Queue_Answered_Calls	Numeric	Number of inbound queue calls that are answered by the agent, as displayed in the Answered cell of Agent Timecard Report
Agent_Inbound_Queue_Answered_Within_Threshold_Calls	Numeric	Number of inbound queue calls that are answered by an agent within the answer threshold.
Agent_Inbound_Queue_Average_Answer_Time_Seconds	Numeric	A straight average of the answer times for the agent, including direct calls to agents (like supervised transfers) which causes this to be different to the statistics in Monitor or the Call Summary Report. It is displayed in the Av Ans Time cell in Agent Timecard Report.
Agent_Inbound_Queue_Refused_Calls	Numeric	The number of queue calls presented to the agent which rang unanswered for the queue's full no answer time before be presented elsewhere. It is displayed in the No Answer cell in Agent Timecard Report. It includes queue calls and queue calls that overflowed to the agent's queue. It does not include non-queue calls. If an agent enables Busy Not Available while being presented with a queue call, that will be counted against the agent and queue.
Agent_Inbound_Queue_Talk_Time	Time duration	The incoming talk time for the agent including external trunk calls, but not internal calls and outgoing external calls, as displayed in the Inbound cell in Agent Timecard Report. It shows the time the agent has spent on handling incoming queue calls. It does not include queue calls answered by non-queue members using methods such as call pickup. It does not include held, parked, and ACW call time.
Agent_Inbound_Talk_Time	Time duration	Total time that the agent spent on incoming answered queue calls, excluding the ringing time. It is the sum of all the inbound talk times in the queues that the agent is a member of, as displayed in the Talk Inbound column in Agent Summary Report. It includes talk times for incoming external trunk calls only. It does not include the talk times for direct calls, internal calls, and outgoing external calls. It excludes the hold, parked, and ACW call times. It does not include queue calls answered by non-queue members using methods such as call pickup.

Field Name	Type	Definition
Agent_Internal_Talk_Time	Time duration	Total time that the agent spent on calls between internal parties, inbound, and outbound. It is the sum of all the internal talk times in the queues that the agent is a member of, as displayed in the Talk Internal column of Agent Summary Report. It includes the ringing time for direct calls, but not for queue calls. It does not include held, parked, and ACW call time. It does not include queue calls answered by non-queue members using methods such as call pickup.
Agent_Lost_Calls	Numeric	Number of queue calls lost by the agent, as displayed in the Lost Calls column of Call Summary Report. A lost call is one where the caller disconnects before the call is answered by the agent. The lost call threshold does not impact this statistic. Queue calls that are lost are reported as lost against both the queue and the last agent to who the call is presented. It does not include calls that are routed to voicemail.
Agent_Lunch_Duration	Time duration	The total amount of time the agent went into and came out of Busy Not Available state using reason code 1. It is displayed in the Lunch cell in Agent Timecard Report.
Agent_Membership_List	Alphanumeric	Comma delimited list of queue names to which the agent currently belongs.
Agent_Name	Alphanumeric	Username of the agent configured in the IP Office Telephone System, as displayed in the first column of Call Summary Report for agents and the Agent column of Call Details Report and Trace Report.
Agent_Name	Alphanumeric	Username of the agent configured in the IP Office Telephone System, as displayed in the first column of Call Summary Report for agents.
Agent_Non_Queue_Time	Time duration	Total time for which the agent is talking on incoming direct calls, including the ringing times. It is the sum of all the non-queue times in the queues that the agent is a member of, as displayed in the Non-Queue Time column of Agent Summary Report. It is independent of queue memberships and state.
Agent_Off_Hook_Time	Time duration	Total time for which the agent's extension is off hook but is not connected to a trunk. It is the sum of all the off hook times in the queues that the agent is a member of, as displayed in the Off Hook Time column of Agent Summary Report. It is independent of queue memberships or enabled state. Off hook is a telephony term for the state when the handset on a traditional telephone is lifted from the phone, but here it is used for any state where the agent's telephone is in use but not connected to a call. It includes the time taken to pick up handset and dial a call and the ringing time. For an external trunk, it is the time taken until the trunk is seized.
Agent_Outbound_Connected_Calls	Numeric	Number of outbound calls made by the agent that were connected. It is displayed in the Connected Outbound cell of Agent Timecard Report.
Agent_Outbound_Connected_Talk_Time	Time duration	Total time that the agent spent on direct outbound calls, including the ringing time. It is independent of queue memberships or enabled state. It does not include the time for internal calls. It excludes the held, parked, and ACW call time. It is unlike the real-time talk outbound statistic which considers only the time from when an agent gets connected to an external call. It is displayed in the Talk Time Outbound cell of Agent Timecard Report.
Agent_Outbound_Initiated_Calls	Numeric	Number of outbound calls made by the agent.
Agent_Outbound_Talk_Time	Time duration	Total time spent by an agent on direct outbound calls, including the ringing time. It is the sum of all the outbound talk times in the queues that the agent is a member of, as displayed in the Outbound Talk column of Agent Summary Report. It is independent of queue memberships or enabled state. It does not the talk times for internal calls. It excludes the hold, parked, and ACW call times. It is unlike the real-time talk outbound statistic which considers only the time from when an agent gets connected to an external call.
Agent_Presented_Calls	Numeric	Sum of answered, lost, and routed to voicemail call statistics for an agent. For agents, it includes direct calls. For queues, it does not include direct calls and enquiry calls. The same call may be presented more than once, therefore this value is different from the number of unique customer calls.
Agent_Productivity_Factor_Percent	Numeric	An agent's productivity is measured by the parameters for Lost Calls, Answered Calls, Minimum talk time, and Maximum talk time. Any deviation from the set parameters has an effect on the total productivity of an agent. It is displayed in the APF cell in Agent Timecard Report.
Agent_Productivity_Inbound_Calls	Numeric	Number of inbound queue or direct calls that are answered by the agent.
Agent_Productivity_Outside_Lost_Threshold_Calls	Numeric	Number of inbound queue or direct calls lost by the agent outside the lost call threshold, that is, the number of calls for the agent with abandon times greater than the lost call threshold.
Agent_Productivity_Within_Threshold_Calls	Numeric	Number of inbound queue or direct answered calls for an agent that are answered within the answer threshold.
Agent_Queue_Enabled_Time	Time duration	Total time for which an agent is logged in and has the membership of any queue reported enabled. It is the sum of all the enabled times in the queues that the agent is a member of, as displayed in the HG Enabled Time column of Agent Summary Report.
Agent_Refused_Calls	Numeric	Number of times a call is presented to an agent and not answered before it is presented to another agent, as displayed in the No Answer (Timeout) column of Call Summary Report. For an agent, it shows the number of queue calls presented to the agent which rang unanswered for the queue's full no answer time before it is presented elsewhere. It includes queue calls and queue calls that overflowed to the agent's queue. It does not include direct calls. If an agent enables the Busy Not Available state while being presented with a queue call, it is counted against the agent and the queue.

Field Name	Type	Definition
Agent_Ringing_Time	Time duration	Total time for which the agent's extension is ringing for incoming queue calls. It is the sum of all the ringing times in the queues that the agent is a member of, as displayed in the Ringing Time column of Agent Summary Report. Ringing time is when the agent is presented with a call targeted to a queue that the agent is a member of.
Agent_Routed_To_Other_Calls	Numeric	The number of queue calls that are not routed to voicemail and are answered by this agent that is neither a member of the original queue nor a member of the queue that the call overflows to. Direct calls to the agent are also included. It is displayed in the Routed to Other column of Call Summary Report.
Agent_Routed_To_Voicemail	Numeric	Number of queue calls presented to an agent that were then routed to voicemail, as displayed in the Routed To Voicemail column of Call Summary Report. It does not include announcements played by the voicemail server to the caller.
Agent_Shift_Duration	Time duration	The total amount of time the agent spent logged in. It is displayed broken down in the Shift cell in Agent Timecard Report.
Agent_Start_Date_Time	Date and Time	Date and time of the agent account creation.
Agent_Total_Calls	Numeric	Sum of answered, lost, routed to voicemail, and refused call statistics for an agent. This is the sum of the presented calls and the refused calls for an agent.
Agent_Transferred_Calls	Numeric	Number of calls that are succesfully transferred by the agent. That is, an unsupervised transfer that is not answered is not counted. Direct calls to the agent are also included. It is displayed in the Transferred column of Call Summary Report
Agent_Within_Answer_Threshold_Calls	Numeric	Number of answered calls for an agent that are answered within the answer threshold.
Alarm_Caution_Value	Numeric	Value of the warning threshold as it applied when the alarm was triggered.
Alarm_Clear_Date_Time	Date and Time	Date and time when the alarm or warning is cleared. It is empty if the alarm is active. It is displayed after a hyphen in the Time Stamp column of Alarm Report.
Alarm_Clear_Value	Numeric	Value of the real-time statistic when the alarm or warning was cleared, empty if the alarm is still active.
Alarm_Critical_Value	Numeric	Value of the alarm threshold as it applied when the alarm was triggered.
Alarm_Definition_Caution_Level	Numeric	Value of the warning threshold as it is currently defined.
Alarm_Definition_Critical_Level	Numeric	Value of the alarm threshold as it is currently defined.
Alarm_Definition_End_Date_Time	Date and Time	Date and time of the alarm or warning deletion, empty if the alarm is still active.
Alarm_Definition_ID	Numeric	Unique identification number for the real-time alarm definition, as used in system configuration.
Alarm_Definition_Start_Date_Time	Date and Time	Date and time of the alarm or warning creation.
Alarm_Definition_State_Description	Alphanumeric	Agent or queue state to which a state based alarm is targeted. It is empty for non agent or queue state based alarms. It is displayed after a hyphen in the Statistic Name column of Alarm Report.
Alarm_Definition_State_ID	Numeric	Identification number for agent or queue state to which state based alarm is targeted. It is zero for non agent or queue state based alarms, as used in system configuration.
Alarm_Definition_Statistic_Description	Alphanumeric	Name of the real-time statistic which is subject to the alarm, as displayed in the Statistic Name column of Alarm Report.
Alarm_Definition_Statistic_Group_Description	Alphanumeric	Statistic group of the real-time alarm. Possible English values are: Agent, Queue, System.
Alarm_Definition_Statistic_Group_ID	Numeric	Unique identification number for the statistic group of the real-time alarm.
Alarm_Definition_Statistic_ID	Numeric	Identification number for real-time statistic which is subject to the alarm, as used in system configuration.
Alarm_Definition_Type_Description	Alphanumeric	Type of the real-time alarm. Possible English values are: Above Values, Below Values, Agent Time In State, Queue Time In State.
Alarm_Definition_Type_ID	Numeric	Unique identification number for the type of the real-time alarm.
Alarm_Duration	Time duration	Length of time between the alarm trigger and the alarm clear, empty if alarm is still active.
Alarm_ID	Numeric	Unique identification number for triggering of the real-time alarm warning or alarm, as used in system configuration.
Alarm_Reason_Description	Alphanumeric	The Busy Not Available reason code associated with an agent state based alarm where the agent state is Busy Not Available. It is displayed in brackets in the Statistic Name column of Alarm Report for relevant alarms. For agents on the 1400, 1600, 2400, 5400, 4600, 5600, 9500 and 9600 Series telephones with available programmable buttons, when they select the Busy Not Available state using a button on their phone, they are prompted to select a reason code, if any has been configured on the telephone system. The codes are configured on the telephone system by the system maintainer. Up to eight custom reasons can be configured in addition to the following two fixed reasons: 1. **Automatic** - This reason is used if the agents are using a telephone that allows reason code selection but fail to select a reason. For example, if they enable Busy Not Available through a short code, using one-X Portal for IP Office, or are forced into it by the IP Office's Agent Status on No Answer feature. 2. **Unsupported** - This reason code is used for agents using telephones that do not allow the selection of a reason code.

Field Name	Type	Definition
Alarm_Status_Description	Alphanumeric	Description of the alarm state, whether it is an alarm or a warning that is triggered, as displayed in the Label column of Alarm Report.
Alarm_Status_Description	Alphanumeric	Description of the alarm state, whether it is an alarm or a warning that is triggered, as displayed in the Type column of Alarm Report.
Alarm_Status_ID	Numeric	Identification number for the alarm warning or alarm state, as used in system configuration.
Alarm_Target_Name	Alphanumeric	Name of the queue or username of the agent that triggers the warning or alarm, as displayed in the Target Name column of Alarm Report.
Alarm_Trigger_Date_Time	Date and Time	Date and time when the alarm or warning is triggered, as displayed in the Time Stamp column of Alarm Report before any hyphen and clear date and time.
Alarm_Trigger_Value	Numeric	Value of the real-time statistic when the alarm or warning trigger occurred, as displayed in the Value column of Alarm Report.
Call_Account_Code	Alphanumeric	Account code applied to the call.
Call_Agent_Name	Alphanumeric	Username of the agent who answered the call, the overflowed call, or the transferred call, according to the call status. It is displayed in the Agent column of Call Details Report.
Call_Answered_Duration	Time duration	Total answered call duration depending on call status. No duration is shown for overflowed lost calls or routed to voicemail call status and the value may be empty for other call status. This is not the Duration column in the Call Details Report.
Call_Callers_Identifier	Alphanumeric	For inbound calls, this is the CLI or telephone number of the caller provided with the call. For outbound calls, it is empty. It is also known as the CLID or ICLID (Incoming Calling Line ID).
Call_Callers_Name	Alphanumeric	Username of agent initiating the call, if available, otherwise empty.
Call_CLI_Number	Alphanumeric	For inbound calls, this is the CLI or telephone number of the caller provided with the call. For outbound calls, this is the number dialed by the agent. For outgoing external calls, the system can partially mask the number according to privacy settings configured by the system administrator. This is displayed in the Number column of Call Details Report. It is also known as the CLID or ICLID (Incoming Calling Line ID).
Call_CLI_Number	Alphanumeric	For inbound calls, this is the CLI or telephone number of the caller provided with the call. For outbound calls, this is the number dialed by the agent. For outgoing external calls, the system can partially mask the number according to privacy settings configured by the system administrator. This is displayed in the CLI column of Call Details Report. It is also known as the CLID or ICLID (Incoming Calling Line ID).
Call_Date_Time	Date and Time	Date and time of the call, the overflow, the transfer, the putting on hold or the start of the enquiry call ring, depending on the call status. It is displayed in the Date - Time column of Call Details Report.
Call_Date_Time	Date and Time	Date and time of the call, the overflow, the transfer, the putting on hold or the start of the enquiry call ring, depending on the call status. It is displayed in the Time Stamp column of Call Details Report.
Call_DDI_Number	Alphanumeric	For incoming calls, this is the destination number received. For outbound calls, this is the destination number used to make the call. It is displayed in the DDI column of Call Details Report.
Call_DDI_Number	Alphanumeric	For incoming calls, this is the destination number received. It is displayed in the DDI column of Call Details Report.
Call_Dialed_Number	Alphanumeric	Set to the dialed number. This is the number dialed by user where as DDI is the equivalent number assigned by the switch e.g. 8035001 is the number dialed once IPO determines the short code and sends it over SIP like DDI becomes 5001@xxx.xxx.xxx.xxx. That said it is likely to be empty for inbound calls.
Call_Direction_Description	Alphanumeric	Description of the call direction, Inbound or Outbound for external calls and Internal for internal calls, as displayed in the Call Direction column of Call Details Report.
Call_Direction_ID	Numeric	Identification number of the call direction, as used in system configuration.
Call_Duration	Time duration	Total call duration depending on call status. No duration is shown for overflowed lost calls or routed to voicemail call status and the value may be empty for other call status. The duration for the transfer call status is from the transfer initiation to the end of the transfer (i.e. it includes the duration of the enquiry call). The duration for the enquiry answered call status, is from the agent answering to the transfer being completed. This is not the Duration column in the Call Details Report.
Call_End_Date_Time	Date and Time	Date and time the call ended, this is not the Time Stamp column in the Call Details Report.
Call_Held_Duration	Time duration	Hold duration depending on call status. The duration for the hold call status is the time until a transfer is completed. This is not the Duration column in the Call Details Report.
Call_ID	Numeric	Identification number of the call, as used in system configuration. It is unique per call handled by the IP Office Telephone System, even if the system is rebooted. It is not unique within the data set since the set contains all call events for a single call such as transfers, holds, and overflows. For the Events data set, it and other call related fields may not be set if the event is not call related.
Call_ID	Numeric	Identification number of the call, as used in system configuration. It is unique per call handled by the IP Office Telephone System, even if the system is rebooted. It is not unique within the data set since the set contains all call events for a single call such as transfers, holds, and overflows.

Field Name	Type	Definition
Call_Is_Answered	Condition	Set whenever an end answers a call. It is set when a call is overflowed answered, when a call is routed to voicemail and when a call is directed to autoattendant. Not set for new call status.
Call_Is_Broken	Condition	If a call is cleared in a held state, this condition is set on the call. This indicates that a caller hung up while being held. Set correctly for new call status. The accuracy of this field is not guaranteed.
Call_Is_Initiating_End	Condition	In the case of an incoming call, the trunk will be the initiating end and will be on the A side. In the case of an outgoing call the Agent is the initiating party and the trunk is the receiving party. Not set for new call status.
Call_Is_Lost	Condition	Set when a call is lost. Not set for new call status.
Call_Is_Manual_Transfer	Condition	It is set when call is transferred (both supervised and unsupervised). It is set for connected and clearing state in case call is answered. For Lost and Transferred calls, it is set in clearing state. Not set for new call status.
Call_Is_Overflowed	Condition	Set when the call is overflowing and will remain set, i.e. it should not be reset. Set to false for new call status.
Call_Is_Routed_To_Voicemail	Condition	Set when an end changes from agent or hunt group, it just indicates that the next end will have a voicemail ID. Set to false for new call status.
Call_Is_Transfer_Setup	Condition	Is set for Enquiry Call. Set correctly for new call status.
Call_Is_Trunk_To_Trunk	Condition	It is set when call from Trunk to Agent (or queue) is transferred to a trunk. Set to false for new call status.
Call_Is_Voicemail	Condition	Set when a call is directed from auto attendant or routed to voicemail. Not set for new call status.
Call_Is_Voicemail_Answered	Condition	Set when call is routed to VoiceMail. Not set for new call status.
Call_Or_Held_Duration	Time duration	Total call duration or the hold duration depending on call status. No duration is shown for overflowed lost calls or routed to voicemail call status and the value may be empty for other call status. It is displayed in the Duration column of Call Details Report. The duration for the hold call status is the time until a transfer is completed. The duration for the transfer call status is from the transfer initiation to the end of the transfer (i.e. it includes the duration of the enquiry call). The duration for the enquiry answered call status, is from the agent answering to the transfer being completed.
Call_Or_Overflow_Queue_Time	Time duration	Time from when the call arrived until it was answered, was lost, or it overflowed. It may be empty for some call status. For routed to voicemail call status, it is the total queue time for all queues that the call goes through. It is displayed in the Queue Time column of Call Details Report. For the enquiry answered call status, it is the ringing time of the enquiry call and when answering a transfer, it is the time from the initial queuing at the transferee until the transfer is completed.
Call_Or_Overflow_Queue_Time	Time duration	Time from when the call arrived until it was answered, was lost, or it overflowed. It may be empty for some call status. For routed to voicemail call status, it is the total queue time for all queues that the call goes through. It is displayed in the Queue Timed column of Call Details Report. For the enquiry answered call status, it is the ringing time of the enquiry call and when answering a transfer, it is the time from the initial queuing at the transferee until the transfer is completed.
Call_Original_Date_Time	Date and Time	Date and time of the call, ignoring any overflow, transfer, hold or enquiry call ring events, not depending on call status.
Call_Overflow_Agent_Name	Alphanumeric	Username of agent from where call overflowed, if call overfowed, otherwise empty. Not set for new call status.
Call_Overflow_Date_Time	Date and Time	Date and time the call overflowed, empty if the status is not overflow. This is not the Time Stamp column of Call Details Report.
Call_Overflow_Index	Numeric	When a call is marked as overflowing, an index will be placed against the call. When the call is answered, lost or routed to voicemail, the index provided at the fist overflowing point will be provided. Not set for new call status.
Call_Overflow_Original_Queue_ID	Numeric	Unique identifier of the first queue from where the call overflowed, if the call has overflowed, otherwise empty. Especially useful when a call overflows a multiple number of times. Not set for new call status.
Call_Overflow_Original_Queue_Name	Alphanumeric	Name of the first queue from where the call overflowed, if the call has overflowed, otherwise empty. Not set for new call status.
Call_Overflow_Queue_Time	Time duration	Time from when the call overflowed until it was answered or was lost. It may be empty for non-overflow status. This is not the Queue Time column in the Call Details Report.
Call_Overflowed_From_Queue_ID	Numeric	Unique identifier of the queue from which the call overflowed, if call has overflowed, otherwise empty. Not set for new call status.
Call_Overflowed_From_Queue_Name	Alphanumeric	Name of the queue from which the call overflowed, if call has overflowed, otherwise empty. Not set for new call status.
Call_Previous_Status_Description	Alphanumeric	This is the previous row's value for the overall description of the call status, as displayed in the Status column of Call Details Report. The status Answered is applied to all calls that go to voicemail. Possible English values are: Abandoned, Connected, Enquiry Answered, Holding, New Call, No Answer, Not Answered, Overflowed Answered, Overflowed Lost, Routed to Voicemail, and Transferred.
Call_Previous_Status_ID	Numeric	This is the previous row's value for the identification number for the call status, as used in the system configuration.

Field Name	Type	Definition
Call_Queue_Time	Time duration	Time from when the call arrived until it was answered or was lost. It may be empty for some call status, including overflows. For routed to voicemail call status, it is the total queue time for all queues that the call goes through. For the enquiry answered call status, it is the ringing time of the enquiry call and when answering a transfer, it is the time from the initial queuing at the transferee until the transfer is completed. This is not the Queue Time column in the Call Details Report.
Call_Record_Count	Numeric	Number of rows present in the data set that have the same Call_ID as the current row.
Call_Record_Index	Numeric	Index number running from 1 to the value of the Call_Record_Count field, representing each call status event for the current call, accounting for each call hold, transfer, overflow, and voicemail event.
Call_Reference_Number	Numeric	Identification number assigned to the call by the IP Office telephone system. It is unique and automatically incrementing until the system is rebooted, remaining with the call whilst it is handled by the system. This is displayed as Reference in Trace Report. It may be empty if an agent event is not associated with a call and for the enquiry answered call status, it is the new call reference. It is not unique within the data set since the set contains all call events for a single call such as holds and overflows.
Call_Reference_Number_Formatted	Alphanumeric	Identification number assigned to the call by the IP Office telephone system. It is unique and automatically incrementing until the system is rebooted, remaining with the call whilst it is handled by the system. This value is the six character string formatted version of the Call_Reference_Number field, as displayed in the Reference column of Call Details Report. For enquiry answered call status, it is the new call reference.
Call_Start_Date_Time	Date and Time	Date and time the call began, this is not the call date and time shown in the Call Details Report. If a queue call is not answered by auto-attendant, then the timestamp provides the initiating time which should be referred for calculating Average Abandon time or Average Speed to Answer time. This is not the Time Stamp column in the Call Details Report.
Call_State_Description	Alphanumeric	Low-level call state. This is not the Status column in Call Details Report.
Call_State_ID	Numeric	Unique identifier for the low-level call state.
Call_Status_Description	Alphanumeric	Overall description of the call status, as displayed in the Status column of Call Details Report. The status Answered is applied to all calls that go to voicemail. Possible English values are: Abandoned, Connected, Enquiry Answered, Holding, New Call, No Answer, Not Answered, Overflowed Answered, Overflowed Lost, Routed to Voicemail, and Transferred.
Call_Status_ID	Numeric	Identification number for the call status, as used in the system configuration.
Call_Sub_Status_Description	Alphanumeric	Call status breakdown. Possible English Values are: Normal, Overflowing, Transferred, Held. Not set for new call events. This is not the Status column in Call Details Report.
Call_Sub_Status_ID	Numeric	Unique identifier of call status breakdown. Not set for new call status.
Call_Target_Agent_ID	Numeric	Unique identifier of initial agent targetted by the call.
Call_Target_Agent_Name	Alphanumeric	Username of the initial agent targetted by the call. This is not the Agent column in Call Details Report.
Call_Target_Queue_ID	Numeric	Unique identifier of initial queue targetted by the call.
Call_Target_Queue_Name	Alphanumeric	Name of the initial queue targetted by the call. This is not the Queue column in Call Details Report.
Call_Transfer_Agent_Name	Alphanumeric	Username of the agent to who the call was transferred for calls with the status Transferred. It is empty for any other call status. It is used in the Agent grouping option of Call Details Report, to show transferred calls grouped against the transfer agent.
Call_Transfer_Date_Time	Date and Time	Date and time the call was transferred, empty if the status is not tranferred. This is not the Time Stamp column of Call Details Report.
Call_Transfer_From_Agent_ID	Numeric	Unique identifier for agent that initiated the transfer of the call. Not set for new call status. or non-transfer status.
Call_Transfer_From_Agent_Name	Alphanumeric	Username of agent that initiated the transfer of the call. Not set for new call status. or non-transfer status.
Call_Transfer_From_Queue_ID	Numeric	Unique identifier for queue that initiated the transfer of the call. Not set for new call status. non-transfer events or direct agent transfers.
Call_Transfer_From_Queue_Name	Alphanumeric	Name of queue that initiated the transfer of the call. Not set for new call status. non-transfer events or direct agent transfers.
Call_Transfer_Index	Numeric	When a call is put on hold, an index will be put against the call. When the call is answered, lost or routed to voicemail, the index provided at hold time will be provided. Not set for new call status.
Call_Transferred_Call_ID	Numeric	Unique identifier of call being setup by this transfer setup call, as used in system configuration, empty if not a transfer setup call. The identifier is unique per call handled by the IP Office Telephone System, even if the system is rebooted. It is not unique within the data set since the set contains all call events for a single call such as transfers, holds, and overflows.
Call_Voicemail_Agent_ID	Numeric	Unique identifier of agent whose voicemail mailbox has been triggered by a voicemail call flow, empty if voicemail not triggered or voicemail is not enabled for the user in IP Office configuration, or 0 if voicemail is triggered for a queue mailbox. Not set for new call status.
Call_Voicemail_Agent_Name	Alphanumeric	Username of agent whose voicemail mailbox has been triggered by a voicemail call flow, empty if voicemail not triggered or voicemail is not enabled for the user in IP Office configuration, or 0 if voicemail is triggered for a queue mailbox. Not set for new call status.

Field Name	Type	Definition
Downtime_Connected_Date_Time	Date and Time	Date and time of the end of a time period of downtime when the system was unable to communicate with the IP Office telephone system. It may be empty if the communication loss is ongoing. It is displayed in the Connection Restored column of Communication Failure Report.
Downtime_Disconnected_Date_Time	Date and Time	Date and time of the beginning of a time period of downtime when the system was unable to communicate with the IP Office telephone system. It is displayed in the Connection Lost column of Communication Failure Report.
Downtime_Duration	Time duration	Length of time between communication being lost and communication being restored, empty if communication loss is ongoing.
Downtime_ID	Numeric	Unique identification number for period of downtime experienced by the IP Office telephone system.
Event_Activity_Description	Alphanumeric	Description of the agent activity, as displayed in the Event Name column of Trace Report.
Event_Activity_ID	Numeric	Identification number for the agent activity, as used in system configuration.
Event_Call_Pickup_Description	Alphanumeric	This bit shows the reason for picking the call by an agent, if any. For example, if it is call pickup or connected due to unheld or unpark, otherwise it is empty. Possible values are: Connected, Connected - due to pickup, Connected - due to unpark, Connected - due to unhold, Connected - post transfer, Dialed.
Event_Call_Pickup_ID	Numeric	Unique identification number for the call pickup reason, if any, otherwise empty
Event_Call_Target_Index	Numeric	This is the index of the agent to which call is targeted. This index can change after an event. Example: Huntgroup has 2 agents: Agent1 and Agent2. When the call is presented to the first agent, CallTargetIndex will be 1. If the call is refused by Agent1 and presented to agent2, then CallTargetIndex will be shown as 2.
Event_Dialed_Number	Alphanumeric	If the activity is call related and the user dialed a number, this is the number dialed.
Event_Duration	Time duration	Length of time event lasted for if event is not still active, otherwise empty.
Event_End_Date_Time	Date and Time	Date and time of the agent event completion, empty if the event is still active.
Event_ID	Numeric	Unique identification number for the agent event, as used in system configuration.
Event_Number	Alphanumeric	For agent events that are related to a call, this is the CLI received with the call for incoming calls and it is the number dialed for outgoing calls. In non call related agent events, the value will be empty. For outgoing external calls, the system can partially mask the number according to privacy settings configured by the system administrator. It is displayed in the Number column of Trace Report.
Event_Reason_Code	Alphanumeric	Applicable for Busy not Available event activity only. These numeric values are available and configurable using IP Office Manager --> System --> CCR.
Event_Reason_Description	Alphanumeric	Description of Reason Code as configured in IP Office Manager --> System --> CCR.
Event_Start_Date_Time	Date and time	Date and time of the agent event, as displayed in the Date - Time column of Trace Report.
LIMITED	Condition	Condition that indicates if the number of rows in the data set has been limited due to the configured maximum number of rows set by the system administrator. It applies independently for each data set where the field is located. If any data set is limited, then a warning message will also be displayed when the report is manually generated.
Queue_After_Call_Work_Time	Time duration	Total time for which the agent's extension is in the ACW state, for all agents in the queue, as displayed in the ACW Time group summary box of Agent Summary Report. The ACW state indicates that an agent is not available to receive queue calls while performing some other call-related activity. It is independent of queue memberships and enabled state. Typically it is used for activities such as call records and data entry that need to be completed before handling another call. A number of controls are available for ACW. Agents can be configured to be automatically put into the ACW state after a queue call or they can manually select to enter the state when required. **Note:** The ACW state is similar to busy wrap up of the CCC product.
Queue_Answered_Calls	Numeric	Number of queue calls that agents in the queue have answered, as displayed in the Answered Calls column of Call Summary Report. This includes calls that are shown as routed to other in real-time. It does not include queue calls answered by non-queue members using methods such as call pickup, or calls that go to voicemail, or direct calls answered by agents. Once a call has overflowed, then if it is answered, it is reported as overflowed answered against the queue.
Queue_Answered_Outside_999_Seconds_Calls	Numeric	Number of calls that are answered by the queue, with a wait time of more than 999 seconds.
Queue_Answered_Within_10_Seconds_Calls	Numeric	Number of calls that are answered by the queue, with a wait time of less than 10 seconds.
Queue_Answered_Within_120_Seconds_Calls	Numeric	Number of calls that are answered by the queue, with a wait time of less than 120 seconds.
Queue_Answered_Within_20_Seconds_Calls	Numeric	Number of calls that are answered by the queue, with a wait time of less than 20 seconds.
Queue_Answered_Within_30_Seconds_Calls	Numeric	Number of calls that are answered by the queue, with a wait time of less than 30 seconds.
Queue_Answered_Within_60_Seconds_Calls	Numeric	Number of calls that are answered by the queue, with a wait time of less than 60 seconds.

Field Name	Type	Definition
Queue_Answered_Within_999_Seconds_Calls	Numeric	Number of calls that are answered by the queue, with a wait time of less than 999 seconds.
Queue_Average_Abandon_Time	Time duration	For lost queue calls, this is the average time from when the calls were received by the IP Office system till they were lost, as displayed in the Average Abandon Time column of Call Summary Report. It is a simple mean (non-weighted average) of call abandon times for individual lost calls. For example, if an agent has lost one call after 6 seconds and lost another call after 8 seconds, this would result in an Average Abandon Time of 7 seconds. If no queue calls have been lost, then the value is 0.
Queue_Average_Answer_Time_Seconds	Time duration	Average duration of the answer time for the queue calculated as a simple, non-weighted mean of the call answer times, as displayed in the Average Answer Time column of Call Summary Report. This is the sum of the answer times for answered queue calls divided by the number of answered queue calls, displayed in seconds. The system considers the calls received by a particular agent or a queue irrespective of the answer threshold setting. The average answer time of a call is measured from it arriving at the queue or agent, but there may be a delay between the time a call is presented to a queue and the time the call arrives to an agent. For example, if a queue has answered one call in 6 seconds and another call in 8 seconds, this would result in an Average Answer Time of 7 seconds. If the queue has answered no calls, then the value is 0.
Queue_Average_Speed_To_Answer_Percent	Numeric	Number of calls answered within the answer threshold time, divided by the total number of calls answered, expressed as a percentage, as displayed in the Average Answer Time (%) column of Call Summary Report. It shows the number of queue calls answered by the queue within the specified answer threshold time, divided by the total number of calls answered. It includes overflow answered calls. For example, with an answer threshold of 30 seconds, 35 calls into a queue were answered within the target time, 5 calls were answered after 30 seconds (no overflows). The calculation would be (Answered Within Threshold + Overflow Answered Within Threshold) / (Answered + Overflow Answered) = (35 + 0) / (40 + 0) = 35 / 40 = 0.875. The average speed to answer percentage (ASA%) therefore is 87.5%. If no calls have been answered within the answer threshold, the value is 0%, or if no calls have been answered at all then the value is 100%.
Queue_Busy_Not_Available_Time	Time duration	Total time for which the agent's extension is in the Busy Not Available state, for all agents in the queue, as displayed in the Busy Not Available Time column of Agent Summary Report. The Busy Not Available state indicates that the agent is not available to receive calls while performing a non call related activity such as attending a meeting. It is independent of queue memberships and enabled state. This state can be selected by an agent using the DND or SAC button on the phone. This also requires the agent to select one of the reason codes displayed on the telephone to indicate the reason for getting into the Busy Not Available state. If this state is enabled while a queue call is being presented, the call will go to the next available agent and cause the No Answer statistic for the agent and queue to be incremented. An agent using any DND or SAC feature is treated as selecting the Busy Not Available state.
Queue_Customer_Calls	Numeric	Total number of unique calls handled by the queue, that is, the number of calls with unique values for the Call_ID field, as displayed in the Customer Calls column in Call Summary Report.
Queue_End_Date_Time	Date and Time	Date and time of the queue deletion, empty if the queue is still active.
Queue_Extension_Number	Alphanumeric	Extension number of the queue.
Queue_Grade_Of_Service_Percent	Numeric	Number of queue calls answered within the answer threshold as a percentage of all calls presented, as displayed in the Grade of Service (%) column in Call Summary Report. Calls lost before the lost call threshold are not included in the calculation, measured from when the call was presented to the queue, and it does not include calls that are routed elsewhere or to voicemail. It includes calls that become lost calls and overflowed answered and lost calls. For example, with an answer threshold of 30 seconds and a lost call threshold of 5 seconds, if 20 calls into a queue are answered within the target time, 4 calls are answered after 30 seconds and 1 call is lost after 10 seconds (no overflows). The calculation would be (Answered Within Threshold + Overflow Answered Within Threshold) / (Answered + Overflow Answered + Lost Outside Threshold + Overflow Lost Outside Threshold) = (20 + 0) / (24 + 0 + 1 + 0) = 20 / 25 = 0.8. The Grade of Service, therefore, is 80%. If no calls are answered within the answer threshold, the value is 0%, or if no calls are answered or lost at all then the value is 100%.
Queue_Handled_Calls	Numeric	The total number of incoming calls for the queue. It is the sum of answered, lost, overflow answered, overflow lost, routed to voicemail and routed to other call statistics for a queue. This is also the sum of the presented calls and routed to other calls for a queue and is displayed in the Handled column of Call Summary Report. The same call may be presented more than once, therefore this value is different from the number of unique customer calls.
Queue_Hold_Time	Time duration	Total time that the agent had calls on hold or calls parked, for all agents in the queue, as displayed in the Hold Time group summary box in Agent Summary Report. In this state the agent is not talking to a caller.
Queue_ID	Numeric	Unique identification number of the queue, as used in system configuration.
Queue_ID	Numeric	Unique identification number of the queue, as used in system configuration. For the Calls and Events data set, it and other related fields may not be set if the event is not call related or the call is a direct call.

Field Name	Type	Definition
Queue_Inbound_Talk_Time	Time duration	Total time that the agent spent on incoming answered queue calls, not including the ringing time, for all agents in the queue, as displayed in the Talk Inbound group summary box of Agent Summary Report. It includes incoming external trunk calls only, not internal and outgoing external calls. It does not include the time spent on direct calls. It excludes the hold, parked, and ACW call time. It does not include queue calls answered by non-queue members using methods such as call pickup.
Queue_Internal_Talk_Time	Time duration	Total time that the agent spent on internal calls, inbound and outbound, for all agents in the queue, as displayed in the Talk Internal group summary box of Agent Summary Report. It includes the ringing time for direct calls, but not for queue calls. It does not include held, parked, and ACW call time. It does not include queue calls answered by non-queue members using methods such as call pickup.
Queue_Lost_Calls	Numeric	Number of calls lost by the queue, as displayed in the Lost Calls column of Call Summary Report. A lost call is one where the caller disconnected before being answered by an agent in the queue. The lost call threshold does not impact this statistic. Queue calls that are lost are reported as lost against both the queue and against the last agent to which the call was presented. It does not include calls that go to voicemail. Once a call has overflowed, if lost for the queue, it is reported as overflowed lost. Note that the number of lost calls for a queue can be higher than the total of lost calls for the agents in the queue as calls can be lost before being presented to any agent.
Queue_Lost_Outside_999_Seconds_Calls	Numeric	Number of calls that are lost by the queue, with a wait time of more than 999 seconds.
Queue_Lost_Within_10_Seconds_Calls	Numeric	Number of calls that are lost by the queue, with a wait time of less than 10 seconds.
Queue_Lost_Within_120_Seconds_Calls	Numeric	Number of calls that are lost by the queue, with a wait time of less than 120 seconds.
Queue_Lost_Within_20_Seconds_Calls	Numeric	Number of calls that are lost by the queue, with a wait time of less than 20 seconds.
Queue_Lost_Within_30_Seconds_Calls	Numeric	Number of calls that are lost by the queue, with a wait time of less than 30 seconds.
Queue_Lost_Within_60_Seconds_Calls	Numeric	Number of calls that are lost by the queue, with a wait time of less than 60 seconds.
Queue_Lost_Within_999_Seconds_Calls	Numeric	Number of calls that are lost by the queue, with a wait time of less than 999 seconds.
Queue_Membership_List	Alphanumeric	Comma delimited list of agent usernames that currently belong to the queue.
Queue_Name	Alphanumeric	Name of the queue as configured in the IP Office telephony system, as displayed in the first column of Call Summary Report for queues and the Queue column of Call Details Report.
Queue_Name	Alphanumeric	Name of the queue as configured in the IP Office telephony system, as displayed in the first column of Call Summary Report for queues.
Queue_Non_Queue_Time	Time duration	Total time for which the agent is talking on incoming direct calls, including the ringing times, for all agents in the queue, as displayed in the Non-Queue Time group summary box of Agent Summary Report. It is independent of queue memberships and state.
Queue_Off_Hook_Time	Time duration	Total time for which the agent's extension was off hook but not connected to a trunk, for all agents in the queue, as displayed in the Off Hook Time group summary box of Agent Summary Report. It is independent of queue memberships or enabled state. Off-hook is a telephony term for the state when the handset on a traditional telephone is lifted from the phone, but here it is used for any state where the agent's telephone is in use but not connected to a call. It includes all the time taken when making a call, picking up handset, dialing, and ringing. For an external trunk it is the time until the trunk is seized.
Queue_Outbound_Talk_Time	Time duration	Total time that an agent spent on direct outbound calls, including the ringing time, for all agents in the queue, as displayed in the Outbound Talk group summary box of Agent Summary Report. It is independent of queue memberships or enabled state. It does not include the time for internal calls. It excludes the held, parked, and ACW call time. It is unlike the real-time talk outbound statistic which considers only the time from when an agent gets connected to an external call.
Queue_Outside_Lost_Threshold_Calls	Numeric	Number of calls lost by a queue outside the lost call threshold, that is, the number of calls for the queue with abandon times greater than the lost call threshold. This includes lost calls that overflowed to the queue. This value is used in the calculation of the Queue_Grade_Of_Service_Percent field.
Queue_Overflow_Answered_Calls	Numeric	Number of overflow answered calls for a queue, as displayed in the Overflow Answered column of Call Summary Report. It shows the number of queue calls answered after overflowing to another queue. This applies even if the overflowed call is answered by an agent in the queue from which it overflowed. It does not include calls that go to voicemail. It does include queue calls answered by methods such as call pickup.
Queue_Overflow_Lost_Calls	Numeric	Number of overflowed lost calls for the queue, as displayed in the Overflow Lost column of Call Summary Report. It does not include calls that go to voicemail. Calls that are lost before the lost call threshold are not counted.
Queue_Overflow_Lost_Calls	Numeric	Number of overflowed lost calls for the queue, as displayed in the Overflow Lost column of Call Summary Report. It shows the number of queue calls lost after overflowing to another queue. It does not include calls that go to voicemail. Calls that are lost before the lost call threshold are not counted.
Queue_Presented_Calls	Numeric	Sum of the answered, lost, overflow answered, overflow lost, and routed to voicemail statistics for the queue.

Field Name	Type	Definition
Queue_Queue_Enabled_Time	Time duration	Total time for which the agents, who are members of a queue, are logged in and have the membership of the queue reported enabled, as displayed in the HG Enabled Time group summary box of Agent Summary Report.
Queue_Refused_Calls	Numeric	Number of times a call is presented to an agent in the queue and not answered before being presented to another agent, as displayed in the No Answer (Timeout) column of Call Summary Report. Therefore, for a queue, this is the total number of no answer events for the agents in the queue. If an agent enables the Busy Not Available state while being presented with a queue call, that will be counted against the agent and the queue.
Queue_Ringing_Time	Time duration	Total time that the agent's extension is ringing for incoming queue calls, for all agents in the queue, as displayed in the Ringing Time group summary box of Agent Summary Report. This is when an agent is being presented with a call targeted to a queue that the agent is a member of.
Queue_Routed_To_Other_Calls	Numeric	The number of queue calls that are not routed to voicemail and are answered by a party from this queue that is neither a member of the original queue nor a member of the queue that the call overflows to. It is displayed in the Routed To Other column of Call Summary Report
Queue_Routed_To_Voicemail_Calls	Numeric	Number of queue calls presented to a queue that are routed to voicemail, as displayed in the Routed To Voicemail column of Call Summary Report. It does not include announcements played by the voicemail server to the caller.
Queue_Start_Date_Time	Date and Time	Date and time of the queue creation.
Queue_Total_Calls	Numeric	Sum of the answered, lost, overflow answered, overflow lost, routed to voicemail, and refused call statistics for a queue. This is the sum of the presented calls for a queue and the refused calls for the queue.
Queue_Transferred_Calls	Numeric	Number of calls that are succesfully transferred by the queue. That is, an unsupervised transfer that is not answered is not counted. It is displayed in the Transferred column of Call Summary Report.
Queue_Within_Answer_Threshold_Calls	Numeric	Number of those calls for a queue that are answered within the answer threshold time, that is, the number of calls for the queue with answer times less than the answer threshold. This includes answered calls that overflowed to the queue. This value is used in the calculation of the Queue_Average_Speed_To_Answer_Percent and Queue_Grade_Of_Service_Percent fields.
Supervisor_Email_Address	Alphanumeric	E-mail address of the supervisor account who has the alarm defined in a realtime view.
Supervisor_End_Date_Time	Date and Time	Date and time for the deletion of the supervisor account who has the alarm defined in a realtime view, empty if suepervisor account is still active.
Supervisor_Extension_Number	Alphanumeric	Extension number of the supervisor account who has the alarm defined in a realtime view.
Supervisor_Full_Name	Alphanumeric	Full display name of the supervisor account who has the alarm defined in a realtime view.
Supervisor_ID	Numeric	Unique identification number for the supervisor account who created the real-time alarm, as used in system configuration.
Supervisor_Name	Alphanumeric	Username of supervisor account who has the alarm defined in a realtime view.
Supervisor_Start_Date_Time	Date and Time	Date and time for the creation of the supervisor account who has the alarm defined in a realtime view.
Switch_Domain_Name	Alphanumeric	Domain name of the IP Office.
Switch_End_Date_Time	Date and Time	Timestamp when the IP Office disconnected from IP Office Customer Call Reporter application.
Switch_Firmware_Version	Alphanumeric	IP Office core firmware version.
Switch_ID	Numeric	Unique identification number for the IP Office telephone system, as used in system configuration.
Switch_ID	Numeric	Unique identification number for the IP Office telephone system, as used in system configuration. For the Alarms data set, it and other switch related fields may not be set unless the supervisor account defining the alarm is also an agent.
Switch_IP_Address	Alphanumeric	IP address configured for the IP Office telephone system, as displayed in the IP Address column of Communication Failure Report.
Switch_Last_Config_Merge_Date_Time	Date and Time	Date and time of the last configuration merge for the IP Office. The accuracy of this field cannot be guaranteed.
Switch_Name	Alphanumeric	Name of the IP Office telephony system, as displayed in the IP Office Name column of Communication Failure Report.
Switch_Start_Date_Time	Date and Time	Timestamp when the IP Office connected to the IP Office Customer Call Reporter application.
System_After_Call_Work_Time	Time duration	Total time for which the agent's extension is in the ACW state, for all agents in the system, as displayed in the ACW Time summary box of Agent Summary Report. The ACW state indicates that the agent is not available to receive queue calls while performing some other call-related activity. It is independent of queue memberships and enabled state. The ACW state is used for activities such as call records and data entry that need to be completed before handling another call. A number of controls are available for ACW. Agents can be configured to be automatically put into the ACW state after a queue call or they can manually select to enter the state when required.

Field Name	Type	Definition
System_Agents_Count	Numeric	Number of agent accounts active in the system.
System_Answered_Calls	Numeric	Number of queue calls that agents in the system have answered, as displayed in the Answered Calls summary box of Call Summary Report. This includes calls that are shown as routed to other in real-time. It does not include queue calls answered by non-queue members using methods such as call pickup, or calls that go to voicemail, or direct calls answered by agents. Once a call has overflowed, if it is answered, it is reported as overflowed answered against the system.
System_Answered_Outside_999_Seconds_Calls	Numeric	Number of calls that are answered by all queues, with a wait time of more than 999 seconds.
System_Answered_Within_10_Seconds_Calls	Numeric	Number of calls that are answered by all queues, with a wait time of less than 10 seconds.
System_Answered_Within_120_Seconds_Calls	Numeric	Number of calls that are answered by all queues, with a wait time of less than 120 seconds.
System_Answered_Within_20_Seconds_Calls	Numeric	Number of calls that are answered by all queues, with a wait time of less than 20 seconds.
System_Answered_Within_30_Seconds_Calls	Numeric	Number of calls that are answered by all queues, with a wait time of less than 30 seconds.
System_Answered_Within_60_Seconds_Calls	Numeric	Number of calls that are answered by all queues, with a wait time of less than 60 seconds.
System_Answered_Within_999_Seconds_Calls	Numeric	Number of calls that are answered by all queues, with a wait time of less than 999 seconds.
System_Average_Abandon_Time	Numeric	For all lost queue calls, this is the average time from when the calls were received by the IP Office system till they were lost, as displayed in the Average Abandon Time summary box of Call Summary Report. It is a simple mean (non-weighted average) of call abandon times for individual lost calls. For example, if an agent has lost one call after 6 seconds and lost another call after 8 seconds, this would result in an Average Abandon Time of 7 seconds. If no queue calls have been lost, then the value is 0.
System_Average_Answer_Time_Seconds	Numeric	Average answer time for all agents calculated as a simple, non-weighted mean of the call answer times. It is same as the item displayed in the Average Answer Time summary box in Call Summary Report. It is the sum of the answer times in seconds for answered queue calls divided by the number of answered queue calls. The system considers the calls received by a particular agent or a queue irrespective of the answer threshold setting. The average answer time for a call is measured from it arriving at the queue or agent, but there may be a delay between the time a call is presented to a queue and the time the call arrives to the agent. It does not include direct calls to the agent. For example, if an agent has only answered one queue call in 6 seconds and then a second queue call in 8 seconds, the average answer time is 7 seconds. If the agent has answered no calls, then the value is 0.
System_Average_Duration	Time duration	The average talk time for all agents, as displayed in the Av Total summary cell of the Agent Timecard Report. It includes queue calls and direct calls to agent extension. However, it does not include internal calls.
System_Average_Inbound_Duration	Time duration	The average inbound talk time for all agents, as displayed in the Av In summary cell of the Agent Timecard Report. It includes queue calls and direct calls to agent extension. However, it does not include internal calls.
System_Average_Outbound_Duration	Time duration	The average outbound talk time for all agents, as displayed in the Av Out summary cell of the Agent Timecard Report. It includes queue calls and direct calls to agent extension. However, it does not include internal calls.
System_Average_Speed_To_Answer_Percent	Numeric	Number of all calls answered within the answer threshold time, divided by the total number of calls answered, expressed as a percentage. It shows the number of queue calls answered by all agents within the specified answer threshold time, divided by the total number of calls answered. For example, with an answer threshold of 30 seconds, 35 calls into all agents were answered within the target time, 5 calls were answered after 30 seconds. The calculation would be Answered Within Threshold / Answered = 35 / 40 = 0.875. The average speed to answer percentage (ASA%) therefore is 87.5%. If no calls have been answered within the answer threshold, the value is 0%, or if no calls have been answered at all then the value is 100%.
System_Break_Duration	Time duration	The total amount of time all agents went into and came out of other Busy Not Available states other than reason code 1. It is displayed in the Break summary cell in Agent Timecard Report.
System_Busy_Not_Available_Time	Time duration	Total time for which the agent's extension is in the Busy Not Available state, for all agents in the system, as displayed in the Busy Not Available Time summary box of Agent Summary Report. The Busy Not Available state indicates that the agent is not available to receive calls while performing a non-call related activity such as attending a meeting. It is independent of queue memberships and enabled state. This state can be selected by an agent using the DND or SAC button on the phone. This also requires the agent to select one of the reason codes displayed on the telephone to indicate the reason for getting into the Busy Not Available state. If this state is enabled while a queue call is being presented, the call will go to the next available agent and cause the No Answer statistic for the agent and the queue to be incremented. An agent using any DND or SAC feature is treated as selecting the Busy Not Available state.

Field Name	Type	Definition
System_Customer_Calls	Numeric	Total number of unique calls from a system wide point of view, as displayed in the Customer Calls summary box of Call Summary Report. It is not necessarily the sum of the per queue or per agent customer call values. For example, a call transferred between agents would show as a unique call for each agent (two calls total) but in the summary section it shows as a single system call. Another example would be where a call spans two time grouping. It would show as a unique call for each of the time group (two calls total) but in this system wide field it would show as a single system call.
System_Database_Last_Alarm_Capacity_Percentage	Numeric	Percentage database capacity reached at last database monitor/capacity warning, if any.
System_Database_Last_Alarm_Date	Time duration	Date and time of last database monitor/capacity warning, if any.
System_Database_Last_Archive_Alarm_Date	Time duration	Date and time of last database monitor/capacity alarm, if any.
System_Database_Last_Archive_Capacity_Percentage	Numeric	Percentage database capacity reached at last database monitor/capacity archive, if any.
System_Database_Last_Archive_Date	Time duration	Date and time of last database monitor/capacity archive event, when data was archived, if any.
System_Grade_Of_Service_Percent	Numeric	Number of queue calls answered within the answer threshold as a percentage of all calls presented for all queues, as displayed in the Grade of Service (%) summary box in Call Summary Report. Calls lost before the lost call threshold are not included in the calculation, measured from when the call was presented to the queue, and it does not include calls that are routed elsewhere or to voicemail. It includes calls that become lost calls and overflowed answered and lost calls. For example, with an answer threshold of 30 seconds and a lost call threshold of 5 seconds, if 20 calls into a queue are answered within the target time, 4 calls are answered after 30 seconds and 1 call is lost after 10 seconds (no overflows). The calculation would be (Answered Within Threshold + Overflow Answered Within Threshold) / (Answered + Overflow Answered + Lost Outside Threshold + Overflow Lost Outside Threshold) = (20 + 0) / (24 + 0 + 1 + 0) = 20 / 25 = 0.8. The Grade of Service, therefore, is 80%. If no calls are answered within the answer threshold, the value is 0%, or if no calls are answered or lost at all then the value is 100%.
System_Handled_Calls	Numeric	The total number of incoming calls for all queues. It is the sum of answered, lost, overflow answered, overflow lost, routed to voicemail and routed to other call statistics for the system. It is also the sum of the presented calls and routed to other calls for the system and is displayed in the Handled summary box of Call Summary Report. The same call may be presented more than once, therefore this value is different from the number of unique customer calls.
System_Hold_Time	Time duration	Total time for which an agent had calls on hold or calls parked, for all agents in the system, as displayed in the Hold Time summary box of Agent Summary Report. In this state, an agent is not talking to a caller.
System_Inbound_Non_Queue_Answered_Calls	Numeric	The sum of the number of external inbound calls that are targeted directly to all agents and answered by the agent, targeted to another queue and picked up by all agents using call pickup, or targeted directly to another agent and picked up by all agents using call pickup. It does not include queue calls to a queue of which the agent is a member. It is displayed in the Answered Ext Non-Q summary cell of Agent Timecard Report.
System_Inbound_Queue_Answered_Calls	Numeric	Number of inbound queue calls that are answered by all agents, as displayed in the Answered summary cell of Agent Timecard Report
System_Inbound_Queue_Answered_Within_Threshold_Calls	Numeric	Number of inbound queue calls that are answered by all agents within the answer threshold.
System_Inbound_Queue_Average_Answer_Time_Seconds	Numeric	A straight average of the answer times for all agents, including direct calls to agents (like supervised transfers) which causes this to be different to the statistics in Monitor or the Call Summary Report. It is displayed in the Av Ans Time summary cell in Agent Timecard Report.
System_Inbound_Queue_Refused_Calls	Numeric	The number of queue calls presented to all agents which rang unanswered for the queue's full no answer time before be presented elsewhere. It is displayed in the No Answer summary cell in Agent Timecard Report. It includes queue calls and queue calls that overflowed to the agent's queue. It does not include non-queue calls. If an agent enables Busy Not Available while being presented with a queue call, that will be counted against the agent and queue.
System_Inbound_Queue_Talk_Time	Time duration	The incoming talk time for all agents including external trunk calls, but not internal calls and outgoing external calls, as displayed in the Inbound summary cell in Agent Timecard Report. It shows the time the agent has spent on handling incoming queue calls. It does not include queue calls answered by non-queue members using methods such as call pickup. It does not include held, parked, and ACW call time.
System_Inbound_Talk_Time	Time duration	Total time that an agent spent on incoming answered queue calls, not including the ringing time, for all agents in the system, as displayed in the Talk Inbound summary box of Agent Summary Report. It includes incoming external trunk calls only, not internal and outgoing external calls. It does not include time for direct calls. It excludes the hold, parked, and ACW call time. It does not include queue calls answered by non-queue members using methods such as call pickup.
System_Internal_Talk_Time	Time duration	Total time that the agent spent on internal calls, inbound and outbound, for all agents in the system, as displayed in the Talk Internal summary box of Agent Summary Report. It includes the ringing time for direct calls, but not for queue calls. It does not include the held, parked, and ACW call time. It does not include queue calls answered by non-queue members using methods such as call pickup.

Field Name	Type	Definition
System_Lost_Calls	Numeric	Number of calls lost by the system, as displayed in the Lost Calls summary box of Call Summary Report. A lost call is one where the caller disconnected before being answered by an agent in the queue. The lost call threshold does not impact this statistic. Queue calls that are lost are reported as lost against both the system and against the last agent to which the call is presented. It does not include calls that go to voicemail. Once a call has overflowed, if lost for the system, it is reported as overflowed lost. Note that the number of lost calls can be higher than the total of lost calls for agents in the system, as calls can be lost before being presented to any agent.
System_Lost_Outside_999_Seconds_Calls	Numeric	Number of calls that are lost by all queues, with a wait time of more than 999 seconds.
System_Lost_Within_10_Seconds_Calls	Numeric	Number of calls that are lost by all queues, with a wait time of less than 10 seconds.
System_Lost_Within_120_Seconds_Calls	Numeric	Number of calls that are lost by all queues, with a wait time of less than 120 seconds.
System_Lost_Within_20_Seconds_Calls	Numeric	Number of calls that are lost by all queues, with a wait time of less than 20 seconds.
System_Lost_Within_30_Seconds_Calls	Numeric	Number of calls that are lost by all queues, with a wait time of less than 30 seconds.
System_Lost_Within_60_Seconds_Calls	Numeric	Number of calls that are lost by all queues, with a wait time of less than 60 seconds.
System_Lost_Within_999_Seconds_Calls	Numeric	Number of calls that are lost by all queues, with a wait time of less than 999 seconds.
System_Lunch_Duration	Time duration	The total amount of time all agents went into and came out of Busy Not Available state using reason code 1. It is displayed in the Lunch summary cell in Agent Timecard Report.
System_Non_Queue_Time	Time duration	Total time that the agent is talking on incoming direct calls, including the ringing times, for all agents in the system, as displayed in the Non-Queue Time summary box of Agent Summary Report. It is independent of queue memberships and state.
System_Off_Hook_Time	Time duration	Total time for which an agent's extension is off hook but not connected to a trunk, for all agents in the system, as displayed in the Off Hook Time summary box of Agent Summary Report. It is independent of queue memberships or enabled state. Off-hook is a telephony term for the state when the handset on a traditional telephone is lifted from the telephone, but here it is used for any state where the agent's telephone is in use but not connected to a call. It includes all the time taken when making a call, picking up handset, dialing, and ringing. For an external trunk it is the time until the trunk is seized.
System_Outbound_Connected_Calls	Numeric	Number of outbound calls made by all agents that were connected. It is displayed in the Connected Outbound summary cell of Agent Timecard Report.
System_Outbound_Connected_Talk_Time	Time duration	Total time that an agent spent on direct outbound calls, including the ringing time, for all agents in all queues. It is independent of queue memberships or enabled state. It does not include the time for internal calls. It excludes the held, parked, and ACW call time. It is unlike the real-time talk outbound statistic which considers only the time from when an agent gets connected to an external call. It is displayed in the Talk Time Outbound summary cell of Agent Timecard Report.
System_Outbound_Initiated_Calls	Numeric	Number of outbound calls made by all agents. It is displayed in the Initiated Outbound Calls summary box of Call Summary Report.
System_Outbound_Talk_Time	Time duration	Total time that the agent spent on direct outbound calls, including the ringing time, for all agents in the system. as displayed in the Outbound Talk summary box of Agent Summary Report. It is independent of queue memberships or enabled state. It does not include time for internal calls. It excludes the held, parked, and ACW call times. It is unlike the real-time talk outbound statistic which considers only the time from when an agent gets connected to an external call.
System_Outside_Lost_Threshold_Calls	Numeric	Number of calls lost by all queues outside the lost call threshold, that is, the number of calls for all queues with abandon times greater than the lost call threshold.
System_Overflow_Answered_Calls	Numeric	Number of overflow answered calls for the system, as displayed in the Overflow Answered summary box of Call Summary Report. It shows the number of queue calls answered after overflowing to another queue. This applies even if the overflowed call is answered by an agent in the queue from which the call overflowed. It does not include calls that go to voicemail. It does include queue calls answered by methods such as call pickup.
System_Overflow_Lost_Calls	Numeric	Number of overflow lost calls for the system, as displayed in the Overflow Lost summary box of Call Summary Report. It shows the number of calls which overflowed from any queue and were then lost. It does not include calls that go to voicemail. Calls lost before the lost call threshold are not counted.
System_Overflow_Lost_Calls	Numeric	Number of overflowed lost calls for all queues, as displayed in the Overflow Lost summary box of Call Summary Report. It shows the number of queue calls lost after overflowing to another queue. It does not include calls that go to voicemail. Calls that are lost before the lost call threshold are not counted.
System_Presented_Calls	Numeric	Sum of the answered, lost, overflow answered, overflow lost, and routed to voicemail statistics for all queues.
System_Productivity_Factor_Percent	Numeric	Average productivity factor for all agents. An agent's productivity is measured by the parameters for Lost Calls, Answered Calls, Minimum talk time, and Maximum talk time. Any deviation from the set parameters has an effect on the total productivity of an agent. It is displayed in the APF summary cell in Agent Timecard Report.
System_Productivity_Inbound_Calls	Numeric	Number of inbound queue or direct calls that are answered by all agents.

Field Name	Type	Definition
System_Productivity_Outside_Lost_Threshold_Calls	Numeric	Number of inbound queue or direct calls lost by all agents outside the lost call threshold, that is, the number of calls for all agents with abandon times greater than the lost call threshold.
System_Productivity_Within_Threshold_Calls	Numeric	Number of inbound queue or direct answered calls for all agents that are answered within the answer threshold.
System_Queue_Enabled_Time	Time duration	Total time for which all agents of the system were logged in and had their membership of at least one queue as reported enabled, as displayed in the HG Enabled Time summary box of Agent Summary Report.
System_Queues_Count	Numeric	Number of queues active in the system.
System_Refused_Calls	Numeric	Number of times that a call is presented to an agent in the system and not answered before being presented to another agent, as displayed in the No Answer (Timeout) summary box of Call Summary Report. Therefore for the system, this is the total number of no answer events for all the agents in the system. If an agent enables the Busy Not Available state while being presented with a queue call, that will be counted against the agent and the system.
System_Ringing_Time	Time duration	Total time for which the agent's extension was ringing for incoming queue calls, for all agents in the system, as displayed in the Ringing Time summary box of Agent Summary Report. This is when the agent is being presented with a call targeted to a queue of which they are a member.
System_Routed_To_Other_Calls	Numeric	The number of all queue calls that are not routed to voicemail and are answered by a party from any queue that is neither a member of the original queue nor a member of the queue that the call overflows to. It is displayed in the Routed To Other summary box in Call Summary Report.
System_Routed_To_Voicemail_Calls	Numeric	Number of queue calls presented to any queue in the system that are routed to voicemail, as displayed in the Routed To Voicemail summary box of Call Summary Report. It does not include announcements played by the voicemail server to the caller.
System_Shift_Duration	Time duration	The total amount of time all agents spent logged in. It is displayed broken down in the Shift summary cell in Agent Timecard Report.
System_Statistics_Last_Reset_Date	Date and Time	Date and time of last realtime statistics reset, if any.
System_Statistics_Last_Reset_Supervisior	Alphanumeric	Username of the supervisor account resetting realtime statistics, if last reset was of Manual type.
System_Statistics_Last_Reset_Type_Description	Alphanumeric	Description of type of last realtime statistics reset, if any. Possible English values are: Manual or Automatic.
System_Statistics_Last_Reset_Type_ID	Numeric	ID of type of last realtime statistics reset, if any.
System_Supervisors_Count	Numeric	Number of supervisor accounts active in the system.
System_Total_Calls	Numeric	Sum of the answered, lost, overflow answered, overflow lost, routed to voicemail, and refused call statistics for the system. This is the sum of presented calls for the system and refused calls for the system.
System_Transferred_Calls	Numeric	Number of calls that are succesfully transferred by all queues. That is, an unsupervised transfer that is not answered is not counted. It is displayed in the Transferred summary box of Call Summary Report.
System_Wallboards_Count	Numeric	Number of wallboard accounts active in the system.
System_Within_Answer_Threshold_Calls	Numeric	Number of those calls for all queues that are answered within the answer threshold time, that is, the number of calls for all queues with answer times less than the answer threshold.
Total_Answered_Calls	Numeric	Number of calls that have reached a named Voicemail action. These are counted as answered for that action and in total. This value is displayed in the Total Calls Answered summary box of Voicemail Report.
Total_Lost_Calls	Numeric	Number of calls that have reached a named Voicemail action where the call is disconnected by the caller or by the voicemail server before it reaches another named action. These are counted as lost for that action and in total. This value is displayed in the Total Calls Lost summary box of Voicemail Report.
Total_Triggered_Count	Numeric	The total number of calls actioning or triggering voicemail. The same call can be counted as triggering the same action more than once if the call flow loops. Note however that the call must go via another named action rather than simply looping from one of the named actions own result. This value is displayed in the No. of Times Triggered summary line of Voicemail Report.
View_End_Date_Time	Date and Time	Date and time supervisor realtime view, on which the alarm is defined, was deleted, empty if still active.
View_ID	Numeric	Unique identification number for the supervisor real-time view in which the real-time alarm is defined, as used in system configuration.
View_Name	Alphanumeric	Name of supervisor realtime view, e.g. View 1, on which the alarm is defined.
View_Start_Date_Time	Date and Time	Date and time supervisor realtime view, on which the alarm is defined, was created.
Voicemail_Call_Date_Time	Date and Time	Date and time of the call handled by voicemail.
Voicemail_Call_Flow_Name	Alphanumeric	Name of the voicemail flow, tag or action that has been the target of the voicemail call, as displayed in the Name column in the Voicemail Report.
Voicemail_Call_Is_Answered	Condition	Condition that indicates if the call was answered by voicemail.

Field Name	Type	Definition
Voicemail_Call_Is_Lost	Condition	Condition that indicates if the call was lost whilst being handled by voicemail.

2.3.8.9 Dataset Definitions (Custom Reporting Wizard)

The following table lists the fields that you can access in addition to the fields listed in Dataset Definitions 77 for creating custom report types using Custom Reporting Wizard. Note that you will not be able to access these fields if you are use Microsoft Report Builder.

Most of the types are self-explanatory. Those that are type **Condition** (Boolean values) take the value 0 or 1.

Field Name	Type	Definition
Agent After Call Work Time %	Numeric	Percentage of the report period the agent spent as after call work (ACW) time, independent of queue membership.
Agent Answered %	Numeric	Percentage of agent presented calls that were answered.
Agent Answered Calls Between 10 and 20 seconds	Numeric	Number of calls answered by the agent between 10 and 20 seconds wait time.
Agent Answered Calls Between 120 and 999 seconds	Numeric	Number of calls answered by the agent between 120 and 999 seconds wait time.
Agent Answered Calls Between 20 and 30 seconds	Numeric	Number of calls answered by the agent between 20 and 30 seconds wait time.
Agent Answered Calls Between 30 and 60 seconds	Numeric	Number of calls answered by the agent between 30 and 60 seconds wait time.
Agent Answered Calls Between 60 and 120 seconds	Numeric	Number of calls answered by the agent between 60 and 120 seconds wait time.
Agent Average ACW Time	Time duration	Average after call work (ACW) time spent by the agent per customer call, rounded to the nearest second.
Agent Average Call Handling Time	Time duration	Average talk, hold and ACW time spent by the agent per customer call, rounded to the nearest second.
Agent Average Hold Time	Time duration	Average hold time spent by the agent per customer call, rounded to the nearest second.
Agent Average Inbound Talk Time	Time duration	Average inbound talk time spent by the agent per customer call, rounded to the nearest second.
Agent Average Internal Talk Time	Time duration	Average internal talk time spent by the agent per customer call, rounded to the nearest second.
Agent Average Outbound Talk Time	Time duration	Average outbound talk time spent by the agent per customer call, rounded to the nearest second.
Agent Average Ring Time	Time duration	Average ringing time spent by the agent per customer call, rounded to the nearest second.
Agent Average Speed to Answer %	Numeric	Average speed to answer (ASA) percentage for the agent.
Agent Average Talk Time	Time duration	Average talk time spent by the agent per customer call, rounded to the nearest second.
Agent Break Per Day Time	Time duration	Average break time per day, considering whole days only over the period of the report.
Agent Busy Not Available Time %	Numeric	Percentage of the report period the agent spent as busy not available (BNA) time, independent of queue membership.
Agent Call Handling Time	Time duration	Total talk, hold and ACW time spent by the agent .
Agent Call Rate Per Hour	Numeric	Number of presented calls to the agent per hour, rounded to nearest call.
Agent External Talk Time	Time duration	Total inbound and outbound talk time spent by the agent.
Agent Hold Time %	Numeric	Percentage of the report period the agent spent as hold time, independent of queue membership.
Agent Hunt Group Enabled Time %	Numeric	Percentage of the report period the agent spent as queue enabled time, independent of queue membership.
Agent Idle Time	Time duration	Idle time spent by the agent, time in the report period not accounted for by other exclusive activities.
Agent Idle Time %	Numeric	Percentage of the report period the agent spent as idle time, independent of queue membership.
Agent Inbound Queue Answered Outside Threshold Calls	Numeric	Number of inbound queue calls that are answered by an agent outside the answer threshold.
Agent Inbound Talk Time %	Numeric	Percentage of the report period the agent spent as inbound talk time, independent of queue membership.
Agent Internal Talk Time %	Numeric	Percentage of the report period the agent spent as internal talk time, independent of queue membership.
Agent Lost %	Numeric	Percentage of agent presented calls that were lost.
Agent Lunch Per Day Time	Time duration	Average lunch time per day, considering whole days only over the period of the report.
Agent Non Queue Time %	Numeric	Percentage of the report period the agent spent as non-queue time, independent of queue membership.
Agent Off Hook Time %	Numeric	Percentage of the report period the agent spent as off-hook time, independent of queue membership.

Field Name	Type	Definition
Agent Outbound Talk Time %	Numeric	Percentage of the report period the agent spent as outbound time, independent of queue membership.
Agent Outside Answer Threshold Calls	Numeric	Number of answered calls for an agent that are answered outside the answer threshold.
Agent Productivity Outside Answer Threshold Calls	Numeric	Number of inbound queue or direct answered calls for an agent that are answered outside the answer threshold.
Agent Productivity Within Lost Threshold Calls	Numeric	Number of inbound queue or direct calls lost by the agent within the lost call threshold, that is, the number of calls for the agent with abandon times smaller than the lost call threshold.
Agent Ringing Time %	Numeric	Percentage of the report period the agent spent as after call work (ACW) time, independent of queue membership.
Agent Routed To Other %	Numeric	Percentage of agent customer calls that were routed to other.
Agent Routed To Voicemail %	Numeric	Percentage of agent customer calls that were routed to voicemail.
Agent Shift Per Day Time	Time duration	Average shift time per day, considering whole days only over the period of the report.
Agent Talk Time	Time duration	Total inbound, outbound and internal talk time spent by the agent.
Agent Transferred %	Numeric	Percentage of agent customer calls that were transferred.
Agents Total After Call Work Time	Time duration	Total after call work (ACW) time.
Agents Total Answered Calls	Numeric	Total number of answered calls.
Agents Total Average Answer Time	Time duration	Average of agent average speed to answer (ASA) times.
Agents Total Average Speed to Answer %	Numeric	Average of agent average speed to answer (ASA) percentages.
Agents Total Busy Not Available Time	Time duration	Total busy not available (BNA) time.
Agents Total Grade of Service %	Numeric	Average of agent grade of service (GOS) percentages.
Agents Total Handled Calls	Numeric	Total number of handled calls.
Agents Total Hold Time	Time duration	Total hold time.
Agents Total Inbound Talk Time	Time duration	Total inbound talk time.
Agents Total Internal Talk Time	Time duration	Total internal talk time.
Agents Total Lost Calls	Numeric	Total number of lost calls.
Agents Total Non Queue Time	Time duration	Total non-queue time.
Agents Total Off Hook Time	Time duration	Total off-hook time.
Agents Total Outbound Connected Calls	Numeric	Total number of outbound connected calls.
Agents Total Outbound Initiated Calls	Numeric	Total number of outbound initiated calls.
Agents Total Outbound Talk Time	Time duration	Total outbound talk time.
Agents Total Presented Calls	Numeric	Total number of presented calls.
Agents Total Queue Enabled Time	Time duration	Total queue enabled time.
Agents Total Refused Calls	Numeric	Total number of refused calls.
Agents Total Ringing Time	Time duration	Total ringing time.
Agents Total Routed To Other Calls	Numeric	Total number of routed to other calls.
Agents Total Routed To Voicemail Calls	Numeric	Total number of routed to voicemail calls.
Agents Total Transferred Calls	Numeric	Total transferred calls.
Agents Total Within Answer Threshold Calls	Numeric	Total number of calls answered within the answer threshold.
Alarm First Trigger Date/Time	Date and Time	Date and time of first alarm.
Alarm Last Trigger Date/Time	Date and Time	Date and time of last (latest) alarm.
Alarms Total Above Values Definitions	Numeric	Number of alarms that are based on a trigger where the value is greater than the threshold.
Alarms Total Agent Statistic Definitions	Numeric	Number of alarms that are based on an agent statistic.

Field Name	Type	Definition
Alarms Total Agent Time State Definitions	Numeric	Number of alarms that are based on a trigger where the agent state time is greater than the threshold.
Alarms Total Alarms	Numeric	Total number of critical alarms.
Alarms Total All Agents Busy Alarms	Numeric	Total number of critical alarms for all agents busy queue state.
Alarms Total All Agents Busy Alarms and Warnings	Numeric	Total number of critical and warning alarms for all agents busy queue state.
Alarms Total All Agents Busy Warnings	Numeric	Total number of warning alarms for all agents busy queue state.
Alarms Total Below Values Definitions	Numeric	Number of alarms that are based on a trigger where the value is less than the threshold.
Alarms Total Busy Not Available Alarms	Numeric	Total number of critical alarms for busy not available agent state.
Alarms Total Busy Not Available Alarms and Warnings	Numeric	Total number of critical and warning alarms for busy not available agent state.
Alarms Total Busy Not Available Warnings	Numeric	Total number of warning alarms for busy not available agent state.
Alarms Total Cleared Alarms	Numeric	Total number of cleared (non-active) critical alarms.
Alarms Total Cleared Alarms and Warnings	Numeric	Total number of cleared (non-active) warning and critical alarms.
Alarms Total Cleared Warnings	Numeric	Total number of cleared (non-active) warning alarms.
Alarms Total No Agents Logged On Alarms	Numeric	Total number of critical alarms for no agents logged on queue state.
Alarms Total No Agents Logged On Alarms and Warnings	Numeric	Total number of critical and warning alarms for no agents logged on queue state.
Alarms Total No Agents Logged On Warnings	Numeric	Total number of warning alarms for no agents logged on queue state.
Alarms Total Not Cleared Alarms	Numeric	Total number of non-cleared (active) critical alarms.
Alarms Total Not Cleared Alarms and Warnings	Numeric	Total number of non-cleared (active) warning and critical alarms.
Alarms Total Not Cleared Warnings	Numeric	Total number of non-cleared (active) warning alarms.
Alarms Total Out Of Service Alarms	Numeric	Total number of critical alarms for out of service queue state.
Alarms Total Out Of Service Alarms and Warnings	Numeric	Total number of critical and warning alarms for out of service queue state.
Alarms Total Out Of Service Warnings	Numeric	Total number of warning alarms for out of service queue state.
Alarms Total Queue Statistic Definitions	Numeric	Number of alarms that are based on a queue statistic.
Alarms Total Queue Time State Definitions	Numeric	Number of alarms that are based on a trigger where the queue state time is greater than the threshold.
Alarms Total System Statistic Definitions	Numeric	Number of alarms that are based on a system statistic.
Alarms Total Warnings	Numeric	Total number of warning alarms.
Call First Call Date/Time	Date and Time	Date and time of first call.
Call Last Call Date/Time	Date and Time	Date and time of last (latest) call.
Calls Answered Calls Between First and Second Interval	Numeric	Number of calls answered between the first and second intervals wait time, default 20 to 60 seconds.
Calls Answered Calls Between Second and Third Interval	Numeric	Number of calls answered between the second and third intervals wait time, default 60 to 120 seconds.
Calls Answered Calls Between Third and Fourth Interval	Numeric	Number of calls answered between the third and fourth intervals wait time, default 120 to 999 seconds.
Calls Answered Calls Outside Fourth Interval	Numeric	Number of calls answered in more than the fourth interval wait time, default 999 seconds.
Calls Answered Calls Within First Interval	Numeric	Number of calls answered in less than the first interval wait time, default 20 seconds.
Calls Answered Calls Within Fourth Interval	Numeric	Number of calls answered in less than the first interval wait time, default 999 seconds.
Calls Answered Calls Within Second Interval	Numeric	Number of calls answered in less than the first interval wait time, default 60 seconds.
Calls Answered Calls Within Third Interval	Numeric	Number of calls answered in less than the first interval wait time, default 120 seconds.
Calls Average Answered Wait Time	Time duration	Average wait time for answered calls .

Field Name	Type	Definition
Calls Average Call Handling Time	Time duration	Average combined talk, hold and ACW time for answered calls.
Calls Average Connected Duration	Time duration	Average duration for answered calls, including hold time.
Calls Average Duration	Time duration	Average duration for answered calls, excluding hold time.
Calls Average Hold Time	Time duration	Average hold time for answered calls.
Calls Average Lost Wait Time	Time duration	Average wait time for lost calls.
Calls Average Speed to Answer %	Numeric	Average speed to answer (ASA) percentage for the calls.
Calls Average Wait Time	Time duration	Average wait time for the calls.
Calls Grade of Service %	Numeric	Grade of service (GOS) percentage for the calls.
Calls Longest Answered Wait Time	Time duration	Longest wait time for answered calls .
Calls Longest Call Handling Time	Time duration	Longest combined talk, hold and ACW time for answered calls.
Calls Longest Connected Duration	Time duration	Longest duration for answered calls, including hold time.
Calls Longest Duration	Time duration	Longest duration for answered calls, excluding hold time.
Calls Longest Hold Time	Time duration	Longest hold time for answered calls.
Calls Longest Lost Wait Time	Time duration	Longest wait time for lost calls.
Calls Longest Wait Time	Time duration	Longest wait time for the calls.
Calls Lost Calls Between First and Second Interval	Numeric	Number of calls lost between the first and second intervals wait time, default 20 to 60 seconds.
Calls Lost Calls Between Second and Third Interval	Numeric	Number of calls lost between the second and third intervals wait time, default 60 to 120 seconds.
Calls Lost Calls Between Third and Fourth Interval	Numeric	Number of calls lost between the third and fourth intervals wait time, default 120 to 999 seconds.
Calls Lost Calls Outside Fourth Interval	Numeric	Number of calls lost in more than the fourth interval wait time, default 999 seconds.
Calls Lost Calls Within First Interval	Numeric	Number of calls lost in less than the first interval wait time, default 20 seconds.
Calls Lost Calls Within Fourth Interval	Numeric	Number of calls lost in less than the first interval wait time, default 999 seconds.
Calls Lost Calls Within Second Interval	Numeric	Number of calls lost in less than the first interval wait time, default 60 seconds.
Calls Lost Calls Within Third Interval	Numeric	Number of calls lost in less than the first interval wait time, default 120 seconds.
Calls Rate Per Hour	Numeric	Number of connected incoming or internal calls per hour, rounded to nearest call.
Calls Total Answered %	Numeric	Percentage of presented calls that were answered.
Calls Total Answered and Enquiry Answered Calls	Numeric	Total number of answered calls, including enquiry answered calls.
Calls Total Answered Calls	Numeric	Total number of answered calls, excluding enquiry answered calls.
Calls Total Answered Wait Time	Time duration	Total wait time for answered calls .
Calls Total Call Handling Time	Time duration	Total combined talk, hold and ACW time for answered calls.
Calls Total Connected Duration	Time duration	Total duration for answered calls, including hold time.
Calls Total Customer Calls	Numeric	Total number of customer calls.
Calls Total Duration	Time duration	Total duration for answered calls, excluding hold time.
Calls Total Enquiry Answered Calls	Numeric	Total number of enquiry answered calls.
Calls Total Hold Time	Time duration	Total hold time for answered calls.
Calls Total Inbound Calls	Numeric	Total number of inbound calls.
Calls Total Internal Calls	Numeric	Total number of internal calls.
Calls Total Lost %	Numeric	Percentage of presented calls that were lost.
Calls Total Lost Calls	Numeric	Total number of lost calls.

Field Name	Type	Definition
Calls Total Lost Wait Time	Time duration	Total wait time for lost calls .
Calls Total Not Answered Calls	Numeric	Total number of not answered calls.
Calls Total Outbound Connected Calls	Numeric	Total number of outbound connected calls.
Calls Total Outbound Connected Time	Time duration	Total outbound connected time.
Calls Total Outbound Initiated Calls	Numeric	Total number of outbound initiated calls.
Calls Total Overflowed Answered Calls	Numeric	Total number of overflowed answered calls.
Calls Total Overflowed Calls	Numeric	Total number of overflowed answered and overflowed lost calls.
Calls Total Overflowed Lost Calls	Numeric	Total number of overflowed lost calls.
Calls Total Presented Calls	Numeric	Total number of presented calls.
Calls Total Refused %	Numeric	Percentage of presented calls that were refused.
Calls Total Refused Calls	Numeric	Total number of refused calls.
Calls Total Routed To Voicemail %	Numeric	Percentage of presented calls that were routed to voicemail.
Calls Total Routed To Voicemail Calls	Numeric	Total number of routed to voicemail calls.
Calls Total Transferred Calls	Numeric	Total number of transferred calls.
Calls Total Wait Time	Time duration	Total wait time for the calls.
Downtime First Connection Lost	Date and Time	Date and time of first IP Office connection being lost.
Downtime First Connection Restored	Date and Time	Date and time of first IP Office connection being restored.
Downtime Last Connection Lost	Date and Time	Date and time of last (latest) IP Office connection being lost.
Downtime Last Connection Restored	Date and Time	Date and time of last (latest) IP Office connection being restored.
Downtimes Total Connection Not Restored	Numeric	Total number of downtime connections not restored (downtime active).
Downtimes Total Connection Restored	Numeric	Total number of downtime connections restored (downtime not active).
Event Filtered Call Reference Number	Numeric	Call reference number (unformatted) for agent events that are call related, hyphens otherwise.
Event Filtered Call Reference Number Formatted	Alphanumeric	Formatted six digit call reference number for agent events that are call related, hyphens otherwise.
Event Filtered Call Target Index	Numeric	Call target index number for agent events that are call related, empty otherwise.
Event First Start Date/Time	Date and Time	Date and time of first agent event.
Event Last Start Date/Time	Date and Time	Date and time of last (latest) agent event.
Events Total After Call Work Events	Numeric	Total number of after call work (ACW) events.
Events Total Available Events	Numeric	Total number of available events.
Events Total Busy All Events	Numeric	Total number of all busy events.
Events Total Busy Alt-Q Events	Numeric	Total number of busy alterative queue events.
Events Total Busy Non-Q Events	Numeric	Total number of busy non-queue events.
Events Total Busy Not Available Events	Numeric	Total number of busy not available (BNA) events.
Events Total Clearing Events	Numeric	Total number of clearing events.
Events Total Connected Events	Numeric	Total number of connected events.
Events Total Holding Events	Numeric	Total number of holding events.
Events Total Idle Events	Numeric	Total number of idle events.
Events Total Incoming Events	Numeric	Total number of incoming events.
Events Total Internal Made Events	Numeric	Total number of internal made events.
Events Total Internal Received Events	Numeric	Total number of internal received events.
Events Total Logged In Events	Numeric	Total number of logged in events.
Events Total Logged Off Events	Numeric	Total number of logged off events.
Events Total Lost Events	Numeric	Total number of lost events.

Field Name	Type	Definition
Events Total Off Hook Events	Numeric	Total number of off hook events.
Events Total Outgoing Events	Numeric	Total number of outgoing events.
Events Total Queue Disabled Events	Numeric	Total number of queue disabled events.
Events Total Refused Events	Numeric	Total number of refused events.
Events Total Ringing All Events	Numeric	Total number of all ringing events.
Events Total Ringing Alt-Q Events	Numeric	Total number of ringing alterative queue events.
Events Total Ringing Events	Numeric	Total number of ringing events.
Events Total Ringing Non-Q Events	Numeric	Total number of ringing non-queue events.
Events Total Routed To Voicemail Events	Numeric	Total number of routed to voicemail events.
Queue After Call Work Time %	Numeric	Percentage of the report period the queue spent as after call work (ACW) time, independent of agent membership.
Queue Answered %	Numeric	Percentage of queue presented calls that were answered.
Queue Answered Calls Between 10 and 20 seconds	Numeric	Number of calls answered by the queue between 10 and 20 seconds wait time.
Queue Answered Calls Between 120 and 999 seconds	Numeric	Number of calls answered by the queue between 120 and 999 seconds wait time.
Queue Answered Calls Between 20 and 30 seconds	Numeric	Number of calls answered by the queue between 20 and 30 seconds wait time.
Queue Answered Calls Between 30 and 60 seconds	Numeric	Number of calls answered by the queue between 30 and 60 seconds wait time.
Queue Answered Calls Between 60 and 120 seconds	Numeric	Number of calls answered by the queue between 60 and 120 seconds wait time.
Queue Average ACW Time	Time duration	Average after call work (ACW) time spent by the queue per customer call, rounded to the nearest second.
Queue Average Call Handling Time	Time duration	Average talk, hold and ACW time spent by the queue per customer call, rounded to the nearest second.
Queue Average Hold Time	Time duration	Average hold time spent by the queue per customer call, rounded to the nearest second.
Queue Average Inbound Talk Time	Time duration	Average inbound talk time spent by the queue per customer call, rounded to the nearest second.
Queue Average Internal Talk Time	Time duration	Average internal talk time spent by the queue per customer call, rounded to the nearest second.
Queue Average Outbound Talk Time	Time duration	Average outbound talk time spent by all agents in the queue per customer call, rounded to the nearest second.
Queue Average Ring Time	Time duration	Average ringing time spent by the queue per customer call, rounded to the nearest second.
Queue Average Talk Time	Time duration	Average talk time spent by the queue per customer call, rounded to the nearest second.
Queue Busy Not Available Time %	Numeric	Percentage of the report period the queue spent as busy not available(BNA) time, independent of agent membership.
Queue Call Handling Time	Time duration	Total talk, hold and ACW time spent by the queue .
Queue Call Rate Per Hour	Numeric	Number of presented calls to the queue per hour, rounded to nearest call.
Queue External Talk Time	Time duration	Total inbound and outbound talk time spent by the queue.
Queue Hold Time %	Numeric	Percentage of the report period the queue spent as hold time, independent of agent membership.
Queue Hunt Group Enabled Time %	Numeric	Percentage of the report period the queue spent as queue enabled time, independent of agent membership.
Queue Idle Time	Time duration	Idle time spent by the queue, time in the report period not accounted for by other exclusive activities.
Queue Idle Time %	Numeric	Percentage of the report period the queue spent as idle time, independent of agent membership.
Queue Inbound Talk Time %	Numeric	Percentage of the report period the queue spent as inbound talk time, independent of agent membership.
Queue Internal Talk Time %	Numeric	Percentage of the report period the queue spent as internal talk time, independent of agent membership.
Queue Lost %	Numeric	Percentage of queue presented calls that were lost.
Queue Lost Calls Between 10 and 20 seconds	Numeric	Number of calls lost by the queue between 10 and 20 seconds wait time.
Queue Lost Calls Between 120 and 999 seconds	Numeric	Number of calls lost by the queue between 120 and 999 seconds wait time.

Field Name	Type	Definition
Queue Lost Calls Between 20 and 30 seconds	Numeric	Number of calls lost by the queue between 20 and 30 seconds wait time.
Queue Lost Calls Between 30 and 60 seconds	Numeric	Number of calls lost by the queue between 30 and 60 seconds wait time.
Queue Lost Calls Between 60 and 120 seconds	Numeric	Number of calls lost by the queue between 60 and 120 seconds wait time.
Queue Non Queue Time %	Numeric	Percentage of the report period the queue spent as non-queue time, independent of agent membership.
Queue Off Hook Time %	Numeric	Percentage of the report period the queue spent as off-hook time, independent of agent membership.
Queue Outbound Talk Time %	Numeric	Percentage of the report period the agents in the queue spent as outbound talk time, independent of agent membership.
Queue Outside Answer Threshold Calls	Numeric	Number of answered calls for a queue that are answered outside the answer threshold.
Queue Ringing Time %	Numeric	Percentage of the report period the queue spent as ringing time, independent of agent membership.
Queue Routed To Other %	Numeric	Percentage of queue customer calls that were routed to other.
Queue Routed To Voicemail %	Numeric	Percentage of queue presented calls that were routed to voicemail.
Queue Talk Time	Time duration	Total inbound and internal talk time spent by the queue.
Queue Transferred %	Numeric	Percentage of queue customer calls that were transferred.
Queue Within Lost Threshold Calls	Numeric	Number of lost calls for a queue that are lost within the lost threshold.
Queues Total After Call Work Time	Time duration	Total after call work (ACW) time.
Queues Total Answered Calls	Numeric	Total number of answered calls.
Queues Total Average Abandon Time	Time duration	Average of queue abandon (ASA) times.
Queues Total Average Answer Time	Time duration	Average of queue average speed to answer (ASA) times.
Queues Total Average Speed to Answer %	Numeric	Average of queue average speed to answer (ASA) percentages.
Queues Total Busy Not Available Time	Time duration	Total busy not available (BNA) time.
Queues Total Grade of Service %	Numeric	Average of queue grade of service (GOS) percentages.
Queues Total Handled Calls	Numeric	Total number of handled calls.
Queues Total Hold Time	Time duration	Total hold time.
Queues Total Inbound Talk Time	Time duration	Total inbound talk time.
Queues Total Internal Talk Time	Time duration	Total internal talk time.
Queues Total Lost Calls	Numeric	Total number of lost calls.
Queues Total Non Queue Time	Time duration	Total non-queue time.
Queues Total Off Hook Time	Time duration	Total off-hook time.
Queues Total Outbound Talk Time	Time duration	Total outbound talk time, for all agents in the queue.
Queues Total Outside Lost Threshold Calls	Numeric	Total number of calls lost outside the answer threshold.
Queues Total Overflow Answered Calls	Numeric	Total overflow answered calls.
Queues Total Overflow Lost Calls	Numeric	Total overflow lost calls.
Queues Total Presented Calls	Numeric	Total number of presented calls.
Queues Total Queue Enabled Time	Time duration	Total queue enabled time.
Queues Total Refused Calls	Numeric	Total refused calls.
Queues Total Ringing Time	Time duration	Total ringing time.
Queues Total Routed To Other Calls	Numeric	Total number of routed to other calls.
Queues Total Routed To Voicemail Calls	Numeric	Total number of routed to voicemail calls.
Queues Total Transferred Calls	Numeric	Total number of routed to transferred calls.

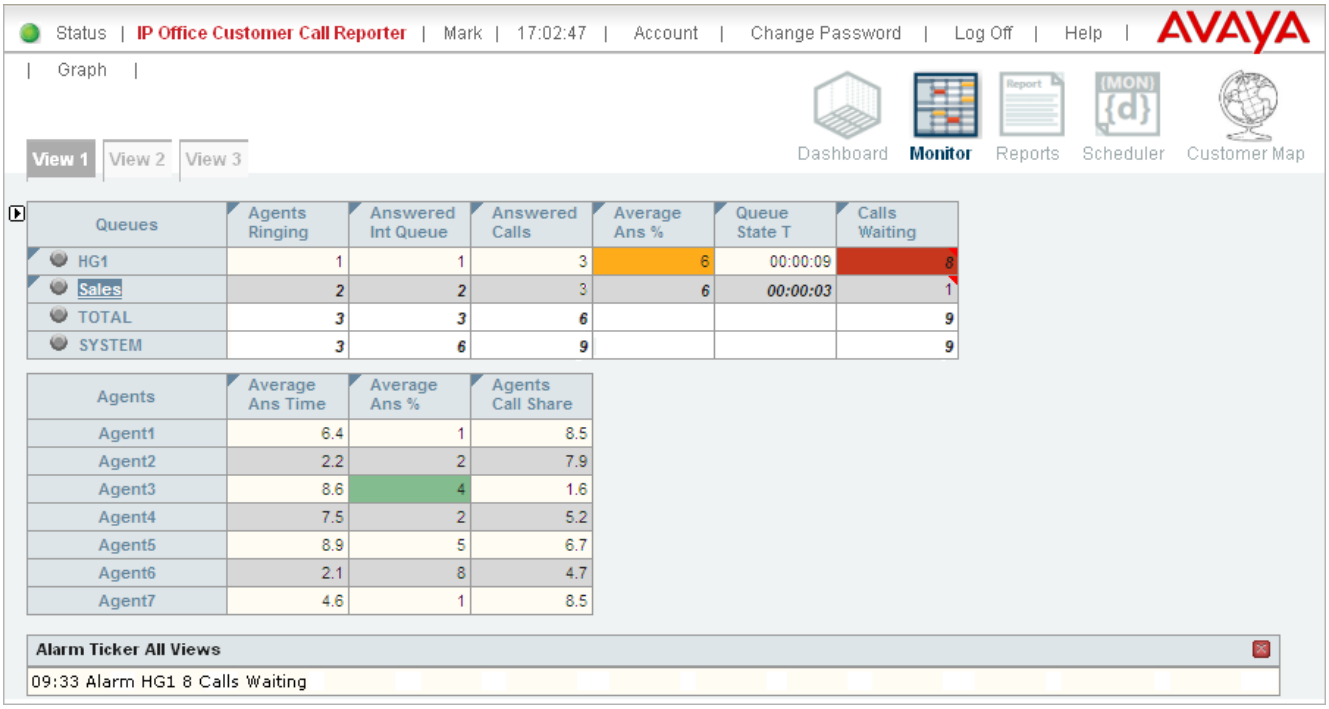
Field Name	Type	Definition
Queues Total Within Answer Threshold Calls	Numeric	Total number of calls answered within the answer threshold.
Report Length Hours	Numeric	Number of hours between the report start date and time and the report end date and time, accounting for each report day (not continuous).
System Answered %	Numeric	Percentage of all system presented calls that were answered.
System Answered Calls Between 10 and 20 seconds	Numeric	Number of calls answered by all queues between 10 and 20 seconds wait time.
System Answered Calls Between 120 and 999 seconds	Numeric	Number of calls answered by all queues between 120 and 999 seconds wait time.
System Answered Calls Between 20 and 30 seconds	Numeric	Number of calls answered by all queues between 20 and 30 seconds wait time.
System Answered Calls Between 30 and 60 seconds	Numeric	Number of calls answered by all queues between 30 and 60 seconds wait time.
System Answered Calls Between 60 and 120 seconds	Numeric	Number of calls answered by all queues between 60 and 120 seconds wait time.
System Average ACW Time	Time duration	Average after call work (ACW) time spent by all queues per customer call, rounded to the nearest second.
System Average Call Handling Time	Time duration	Average talk, hold and ACW time spent by all queues per customer call, rounded to the nearest second.
System Average Hold Time	Time duration	Average hold time spent by all queues per customer call, rounded to the nearest second.
System Average Inbound Talk Time	Time duration	Average inbound talk time spent by all queues per customer call, rounded to the nearest second.
System Average Internal Talk Time	Time duration	Average internal talk time spent by all queues per customer call, rounded to the nearest second.
System Average Outbound Talk Time	Time duration	Average outbound talk time spent by all agents per customer call, rounded to the nearest second.
System Average Ring Time	Time duration	Average ringing time spent by all queues per customer call, rounded to the nearest second.
System Average Talk Time	Time duration	Average talk time spent by all queues per customer call, rounded to the nearest second.
System Call Handling Time	Time duration	Total talk, hold and ACW time spent by all queues .
System Call Rate Per Hour	Numeric	Number of presented calls to all queues per hour, rounded to nearest call.
System External Talk Time	Time duration	Total inbound and outbound talk time spent by all queues.
System Inbound Queue Answered Outside Threshold Calls	Numeric	Number of inbound queue calls that are answered by all agents outside the answer threshold.
System Lost %	Numeric	Percentage of all system presented calls that were lost.
System Lost Calls Between 10 and 20 seconds	Numeric	Number of calls lost by all queues between 10 and 20 seconds wait time.
System Lost Calls Between 120 and 999 seconds	Numeric	Number of calls lost by all queues between 120 and 999 seconds wait time.
System Lost Calls Between 20 and 30 seconds	Numeric	Number of calls lost by all queues between 20 and 30 seconds wait time.
System Lost Calls Between 30 and 60 seconds	Numeric	Number of calls lost by all queues between 30 and 60 seconds wait time.
System Lost Calls Between 60 and 120 seconds	Numeric	Number of calls lost by all queues between 60 and 120 seconds wait time.
System Outside Answer Threshold Calls	Numeric	Number of answered calls for all queues that are answered outside the answer threshold.
System Productivity Outside Answer Threshold Calls	Numeric	Number of inbound queue or direct answered calls for all agents that are answered outside the answer threshold.
System Productivity Within Lost Threshold Calls	Numeric	Number of inbound queue or direct calls lost by all agents within the lost call threshold, that is, the number of calls for the agent with abandon times smaller than the lost call threshold.
System Routed To Other %	Numeric	Percentage of all system customer calls that were routed to other.
System Routed To Voicemail %	Numeric	Percentage of all system customer calls that were routed to voicemail.
System Talk Time	Time duration	Total inbound and internal talk time spent by all queues.
System Transferred %	Numeric	Percentage of all system customer calls that were transferred.
System Within Lost Threshold Calls	Numeric	Number of lost calls for all queues that are lost within the lost threshold.
Voicemail Call First Call Date/ Time	Date and Time	Date and time of first call answered in voicemail.
Voicemail Call Last Call Date/ Time	Date and Time	Date and time of last (latest) call answered in voicemail.

Field Name	Type	Definition
Voicemail Calls Total Answered Calls	Numeric	Total number of calls answered in voicemail.
Voicemail Calls Total Calls	Numeric	Total number of calls handled in voicemail.
Voicemail Calls Total Lost Calls	Numeric	Total number of calls lost in voicemail.
Voicemail Non-lost Calls	Numeric	Number of calls answered but not lost in voicemail.

2.4 Monitor

The monitor facility shows tables of real time statistics [206] about queues and the agents in those queues. Each supervisor can have up to 3 views, each configured with a different set of queues and statistics.

A supervisors views and any changes to them are also shared by their agents except the agent will only see queue statistics for queues to which they belong and agent statistics for themselves.



Use Monitor Views		
• Edit my monitor views. [105]	• Change the queue rows order [103]	• Change an agents status [110]
• Sort on a statistic [103]	• View Agent details [103]	• Reset the statistics manually [111]
• Remove a queue from a view [103]	• Understand the statistic colors [108]	• Reset the statistics automatically [123]
• Change the column order [103]	• Use alarms and warnings [109]	• Graph a statistic [112]

2.4.1 Using a View

When a view has been created [105] there are several controls available that you can use to further customize the screen.

Showing/Hiding the Options Panel

The statistics columns that you add to a view do not display the values until you hide the options panel. Use the toggle icons ◧ and ▣ to switch between adding elements to a view [105] and running a view. For the system to display the toggle icons, you must add at least one queue and at least one statistic to the view.

- Click ▣ to display the options panel. You can then add drag the elements in the options panel to add them to the view.
- Click ◧ to hide the options panel. The system then displays the values in the statistics columns.

Adjusting Statistics

Once a statistic has been added to a view, its name is displayed at the top of the column.

1. Click the statistic name to display the statistic options:

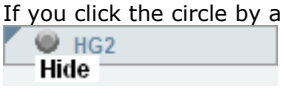


- **Sort Up**
  Sort the view in ascending order using column's current values. When selected the statistic name displays an up arrow icon. Separate sorting can be applied to the agent statistics and the queue statistics. Note that while the queue section of a view is sorted, the selected queue to show in the agent section of the view cannot be changed.
- **Sort Down**
  Sot the view in descending order using this column's current values When selected the statistic name displays a down arrow icon. Separate sorting can be applied to the agent statistics and the queue statistics. Note that while the queue section of a view is sorted, the selected queue to show in the agent section of the view cannot be changed.
- **Sort Off**
  Remove the sort. The queues section returns to the order in which the supervisor or administrator arranged the queues when setting up the view. The agents section returns to alphabetical order except for logged off agents who are placed at the bottom of the view.
- **Help**
  Access help on the statistic.
- **Hide**
  Remove the selected statistic from the view.
- **Settings**
  Depending on the particular statistic you can change parameters such as which calls are used to calculate the statistic, and set warning and alarm thresholds. See Statistics [206] for the settings options for particular statistics.

Note: The sort options are not available while editing a view, ie. while the ◧ icon is displayed.

Removing a Queue

1. If you click the circle by a queue you can select **Hide** to remove the queue from the view.



Changing the Order of the Statistic Columns

1. Click the ▣ icon. Then click the ◤ corner icon and drag the column to the required position. When completed, click the ◧ icon to return the view to normal operation.

Changing the Order of Queues

2. Click the ▣ icon. Then click the ◤ corner icon and drag the queue to the required position. When completed, click the ◧ icon to return the view to normal operation.

Display Additional Information

A statistic may include additional information, indicated by a red corner icon. The icon can be in two different shades of the red color. A bright red icon indicates that the additional information is available. A dark red icon indicates that the additional information is not available currently. Place your cursor over the icon to display the additional information.

View/Hide the Agents in a Queue

1. To view the members of a queue, click the queue name. If a row for SYSTEM has been included in the view, clicking on SYSTEM will display the list of all CCR agents in all CCR queues.

Queues	Agents Ringing	Answered Int Queue	Answered Calls
HG1	1	1	3
HG2	2	2	3
TOTAL	3	3	6

Agents	Average Ans Time	Average Ans %
Agent2	6.41	1.18

2. To hide the members of a queue, click the queue name again.

Note: IP Office Customer Call Reporter hides **logged off agents** depending on the setting selected by the user for viewing logged off agents.

2.4.2 Editing a View

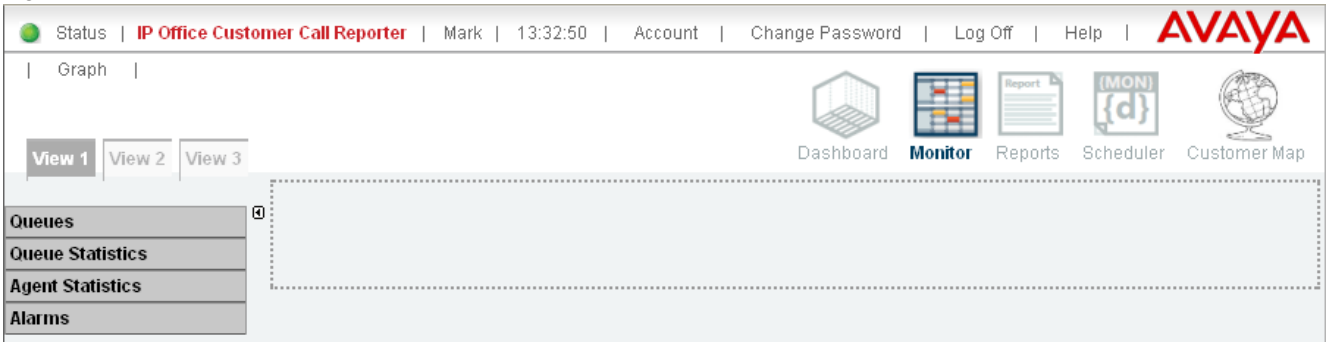
Each supervisor can have up to 3 views showing statistics and alarms for selected queues. Views are setup and amended by the administrator but they can then be adjusted by the supervisor.

Agents are able to see the same views as their supervisor but cannot change the queues or statistics. The agent's version of the view will only show queues to which the agent belongs and their own agent details.

To edit a monitor view

A. Select the view that you want to change.

B. Click the ▶ icon to display the list of elements that can be added to a view. Note that while the list of displayable elements is in view, IP Office Customer Call Reporter does not show or update the statistics and alarms within the view.



1. Adding Queues

By default all the queues configured for the supervisor are shown in the options panel. These are the Queues that the supervisor has permission to view as specified when creating their supervisor account 191.

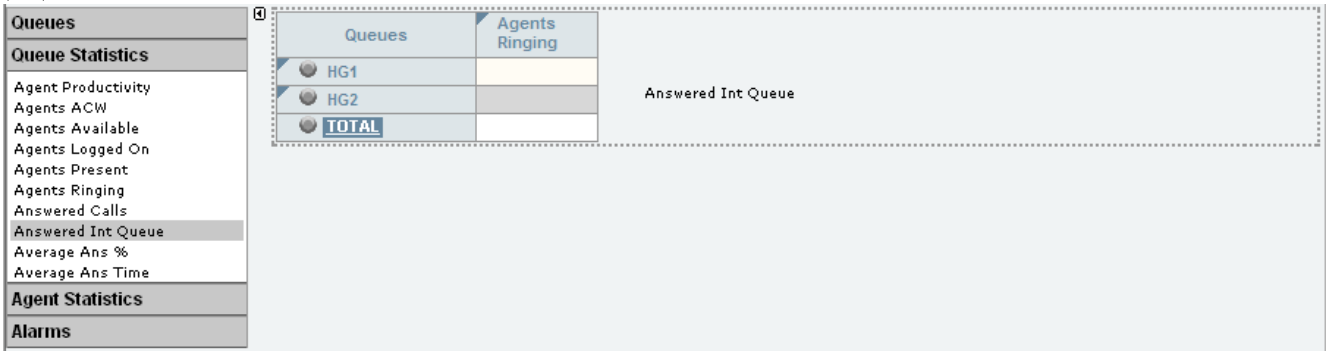


- To add a queue to the view, click **Queues**. Drag and drop the required queue into the view and when the hatched lines are displayed drop it into that area.

- **TOTAL**
  The **TOTAL** row displays a summary of the statistics for the included queues. Alarms and warning settings are not applied to the **TOTAL** row.
  - For most statistics, the **TOTAL** value is a sum of the statistic values for the included queues.
  - For statistics that are averages, the **TOTAL** value is a weighted average 347 of the statistic values for the included queues. For the **Longest Wait Time** statistic, the **TOTAL** value is the statistic value of that queue (among the included queues) that has the longest wait time. For the **Current Wait Time** statistic, the **TOTAL** value is a mean of the current wait times of all the included queues.
  - For the queue statistics that are not supported as **TOTAL** values, the value is displayed as "**–**".
- **SYSTEM**
  IP Office Customer Call Reporter 7.0+ supports reporting some queue statistics as values for the whole system. This target type always follows the same rule as queues. Alarms and warning settings are not applied to **SYSTEM** values. **SYSTEM** can also be selected in the dashboard and wallboard.
  - For most queue statistics, the system value is a total of all queues including those not in the current view.
  - For queue statistics that are averages, the system value uses the same type of average as defined for individual queue - simple, combined, or weighted average 347. For the **Current Wait Time** and **Longest Wait Time**, it is the largest value from all queue.
  - For those queue statistics that are not supported as system values, the value displayed is a – (or plotted as a zero value).
- To remove a queue from the view, click the circle next to its name and select **Hide**.
- To adjust the order of the queues, click the corner icon and drag the queue to the required position.

2. Add Queue Statistics

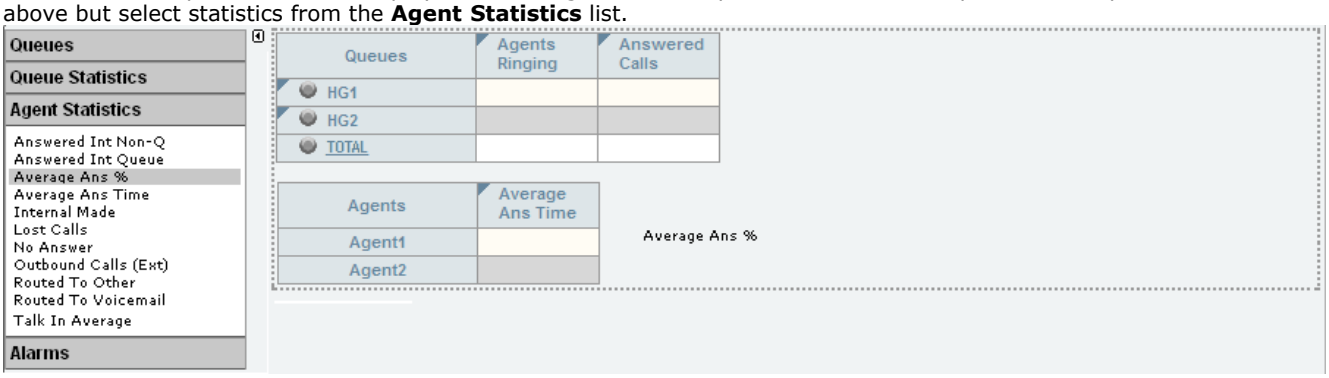
You can select which statistics should be displayed for the queues. For details of the available statistics see Statistics 206.



- To add a statistic to the view, click **Queue Statistics** to view available statistics. Drag and drop the required statistic into the area surrounded by hatched lines in the view.
- Only one instance of each agent and queue statistic can be added to a view.
- Newly added statistic will display the appropriate values for activity since the last statistics reset rather than since the statistic was added to the view.
- To remove a statistics from the view, click the statistic name in the view and select **Hide**.
- To adjust the order of the statistics, click the corner icon and drag the statistic to the required position.
- To adjust the settings used for a statistic, click the statistic name and select **Settings** 206.

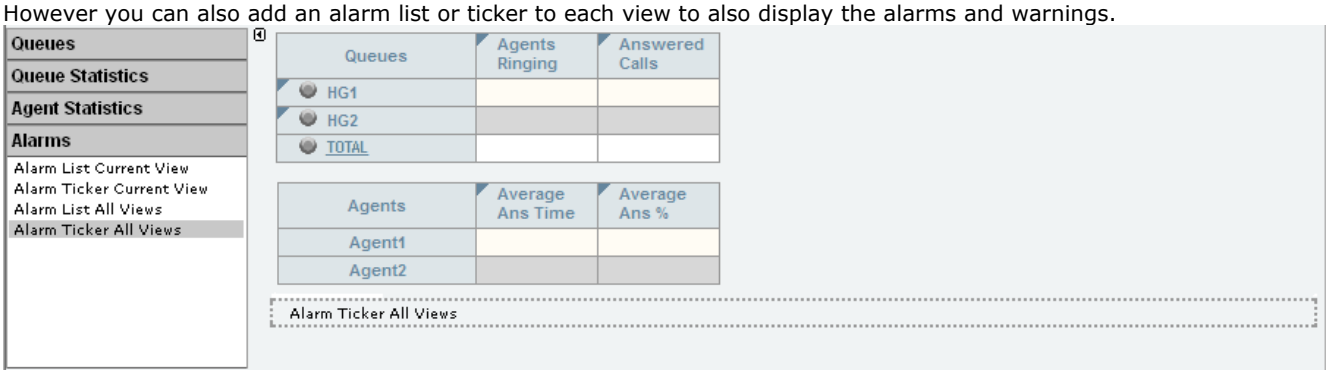
3. Add Agent Statistics

Click one of the queue names to display the list of agents in that queue. Use the same options as for queue statistics above but select statistics from the **Agent Statistics** list.



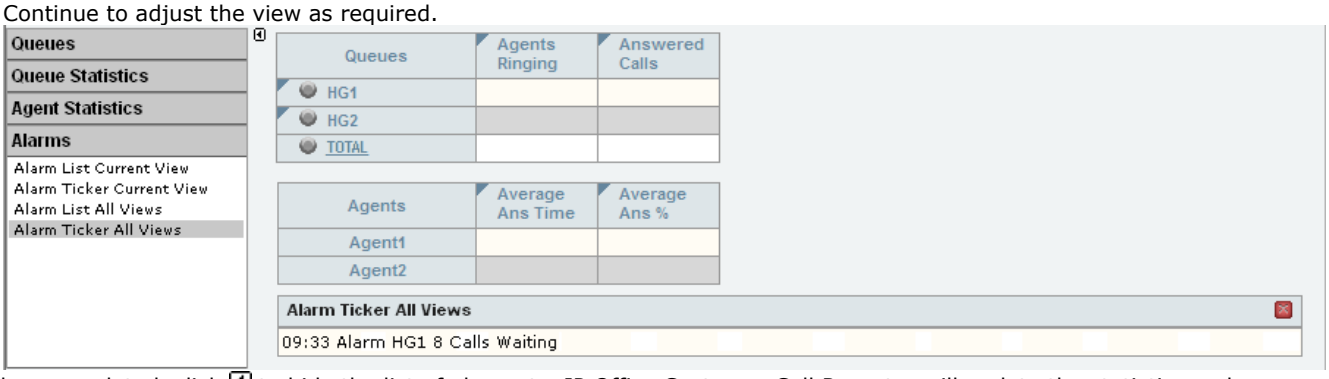
4. Adding an Alarm Summary

Each statistic configured to provides alarms and or warnings does so by displaying different color backgrounds. However you can also add an alarm list or ticker to each view to also display the alarms and warnings.



- Click **Alarms**. Drag and drop the required type of alarm list or ticker to the area either above or below the currently displayed statistics. If required you can have two sets of alarms, one above and one below.
  - An alarm list shows the 100 most recent current alarms and warnings is a scrollable list of all the current alarms and warning. Alarms are shown first in chronological order followed by warnings in chronological order.
    - Alarms in the **Alarm List All Views** can also trigger an audible alarm if the supervisor's account 129 is set as **Audio Enabled**. This will be played to all users looking at that supervisor's views.
  - An alarm ticker shows the 5 most recent current alarms and warnings one at a time, showing each for a few seconds before displaying the next.
  - Alarms and warnings take the form: *Time, Type (Alarm or Warning), Name (Queue name, agent name), Current value, Statistic name.* For agent and queue state alarms, the state is included in the name. For ***Busy Not Available*** state alarms the reason code is included. For example:
    - *12:45 Alarm Sales 15 Calls Waiting*
    - *16:31 Warning Sales 120 Average Answer Time*
    - *17:20 Alarm Extn2101 Agent State Q – Busy Not Available (paper work)*
  - Alarms and warnings are updated approximately every 8 seconds.
  - Clicking on the underlined text in an alarm or warning will change the view to the one containing the alarm or warning and will also select the appropriate queue in that view.
  - Alarms and warnings are removed from the list in when the relevant statistic drops back to the threshold level. The supervisor or agent viewer can also remove an alarm or warning by clicking on the appropriate colored cell of statistic value. Acknowledging an alarm or warning only affects their view.
  - Alarms for database capacity are not shown within the alarm lists and trackers. They are shown during log in.

5. Continue to adjust the view as required.



C. When completed, click to hide the list of elements. IP Office Customer Call Reporter will update the statistics and alarms.

2.4.3 Statistic Colors

A number of different color backgrounds are used while displaying statistics. The following colors are used for normal statistics (these colors are not used in wallboards). The colors for changing statistic number values are optional (enabled by the supervisor's account setting 129 **Highlighting Enabled**) and are not applied to agent state and time values. They are also reset if you change view.

Normal (White)	**Alternate Row** (Light Gray)	**Just Changed** (Purple)	**Recently Changed** (Light Purple)

The following additional colors are used when any statistic is configured to display warnings and alarms. These colors override the ones above. Wallboards only display the colors for warnings and alarms.

Enabled / Cleared (Green)	**Warning** (Orange)	**Alarm** (Red)	**Acknowledged** (Blue)

Alarms and warnings are automatically cleared when the statistic value returns to the threshold level of the alarm or warning. Agents and supervisors can acknowledge an alarm or warning in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarms list.

2.4.4 Alarms and Warnings

For many statistics, alarm and warning thresholds can be set by supervisors. These thresholds are then applied to the whole column. They are also applied to the views seen by agents.

If the value in any cell in the column goes past one of the thresholds, the background color of that cell is changed. The following colors are used for the cells if the statistic has been enabled for alarms and or warnings.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

Alarms and warnings are automatically cleared when the cell returns to the threshold level of the alarm or warning. Supervisors and agents can also acknowledge an alarm or warning by clicking on the relevant cell in their view. That cell is then indicated as acknowledged until the value returns to the threshold value and the alarm or warning is cleared.

Statistic Settings

All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.

For a summary of which statistics can be set to give alarms and or warnings refer to the list of Available Statistics 208 or the individual statistic description.

Alarm Views and Lists

If an alarm list or ticker has been added to the view, it also shows the alarms and warnings.

- An alarm list shows the 100 most recent current alarms and warnings is a scrollable list of all the current alarms and warning. Alarms are shown first in chronological order followed by warnings in chronological order.
  - Alarms in the **Alarm List All Views** can also trigger an audible alarm if the supervisor's account 129 is set as **Audio Enabled**. This will be played to all users looking at that supervisor's views.
- An alarm ticker shows the 5 most recent current alarms and warnings one at a time, showing each for a few seconds before displaying the next.
- Alarms and warnings take the form: *Time, Type (Alarm or Warning), Name (Queue name, agent name), Current value, Statistic name.* For agent and queue state alarms, the state is included in the name. For ***Busy Not Available*** state alarms the reason code is included. For example:
  - *12:45 Alarm Sales 15 Calls Waiting*
  - *16:31 Warning Sales 120 Average Answer Time*
  - *17:20 Alarm Extn2101 Agent State Q – Busy Not Available (paper work)*
- Alarms and warnings are updated approximately every 8 seconds.
- Clicking on the underlined text in an alarm or warning will change the view to the one containing the alarm or warning and will also select the appropriate queue in that view.
- Alarms and warnings are removed from the list in when the relevant statistic drops back to the threshold level. The supervisor or agent viewer can also remove an alarm or warning by clicking on the appropriate colored cell of statistic value. Acknowledging an alarm or warning only affects their view.
- Alarms for database capacity are not shown within the alarm lists and trackers. They are shown during log in.

Reporting Alarms and Warnings

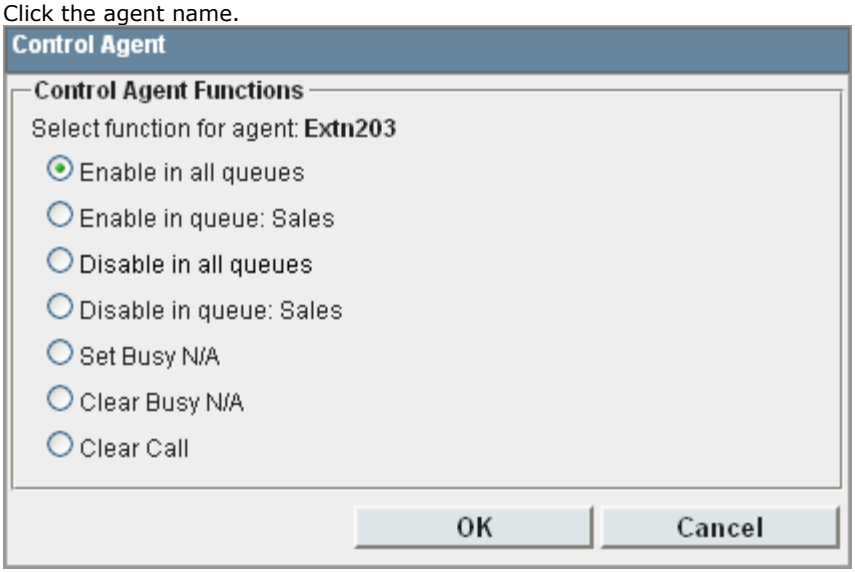
IP Office Customer Call Reporter can provide a historical report of the alarms and warnings that have occurred. This is done by running a report based on the Alarm Report 55 template.

2.4.5 Controlling Agent Status

Within a monitor view, clicking on an agent name displays a menu for changing the status of an agent. For example, if an agent has forgotten to log out at the end of their shift, you can use this menu to log them out.

This feature requires the system to have access to an one-X Portal for IP Office server and is not available unless configured by your IP Office Customer Call Reporter administrator. The option is also not available unless your supervisor account has been configured with the option **Control Agent** 129 enabled.

1. Click a queue to which the agent belongs to display the list of agents.
2. Click the agent name.



3. Select the state that you want applied to the agent.
   - **Enable in all queues**
     The agent is logged in and enabled in all queues to which they belong. Agents using the SIP telephones, including IP Office Video Softphone, are not logged in but are enabled in all queues when they log themselves in.
   - **Enable in this queue**
     The agent is enabled in the currently selected queue. This action does not log the agent in if they are currently logged out.
   - **Disable in all queues**
     The agent's membership of all queues to which they belong is disabled and the agent is logged out.
   - **Disable in queue**
     The agent's membership of the currently selected queue is disabled.
   - **Set Busy N/A**
     The agent's status is set to Busy Not Available with the reason code of automatic.
   - **Clear Busy N/A**
     The agent is taken out of the Busy Not Available state.
   - **Clear Call**
     Clears the agent's current connected call. It does not affect calls parked or held by the agent. If the agent is in a conference call, it clears just the agent's connection to the conference.
4. If the agent was already in the state selected, the command has no effect.

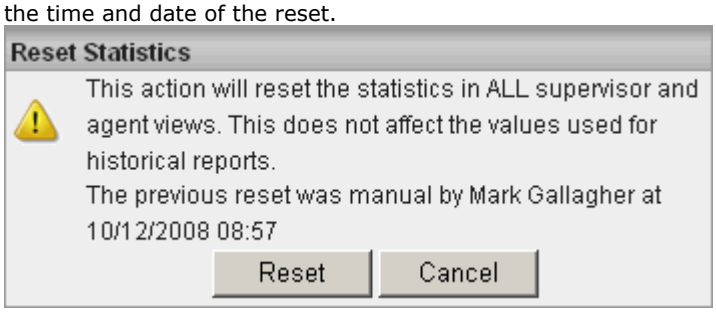
2.4.6 Manually Resetting Statistics

Supervisors for who the administrator has enabled the **Reset Statistics** option can reset all the statistics currently being used for supervisor views, agent views and wallboards. This will affect all supervisors, agents and wallboards. It does not affect the statistics used for historical reports.

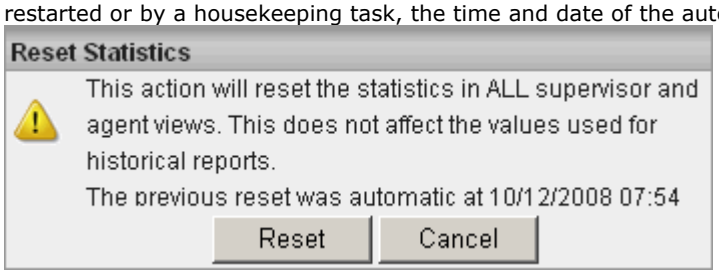
- **IMPORTANT**
  Resetting statistics will reset the view statistics seen by ALL agents and supervisors.
- Note that after resetting statistics, it may take a couple of minutes for all views and wallboards to update and return to normal operation.
- View and wallboard statistics are also reset if the IP Office Customer Call Reporter server computer or the IP Office Customer Call Reporter services are restarted.
- Automatic statistic resets can be scheduled.

To reset the view and wallboard statistics

1. Click **Account**. If the **Reset Statistics** check box is ticked (this is done by the administrator) then your account has permission to reset the view statistics when required.
2. Click **Reset Statistics**.
3. A warning box will be displayed advising that this will affect all supervisor and agent views. Information about the last time the statistics were reset is also displayed.
   - If the view statistics were previously reset by a supervisor, the name of the supervisor is shown along with the time and date of the reset.

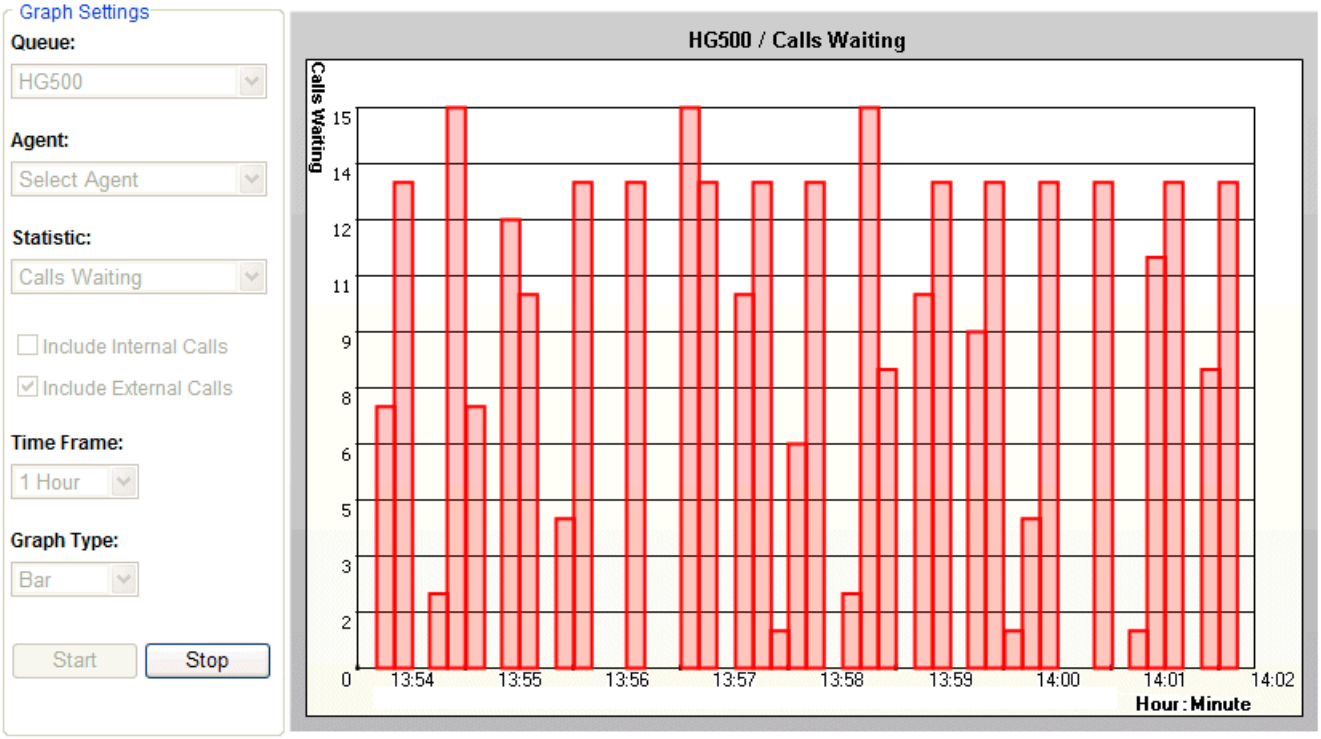
   - If the view statistics were previously reset due to the IP Office Customer Call Reporter services being restarted or by a housekeeping task, the time and date of the automatic reset is shown.

4. Click **Reset**.

2.4.7 Graph View

Supervisors and agents can select to have a graph running showing a selected statistic for a queue or agent. The graph is displayed in a new window or tab depending on the browser being used. Agents are restricted to their own statistics or queues to which they belong.



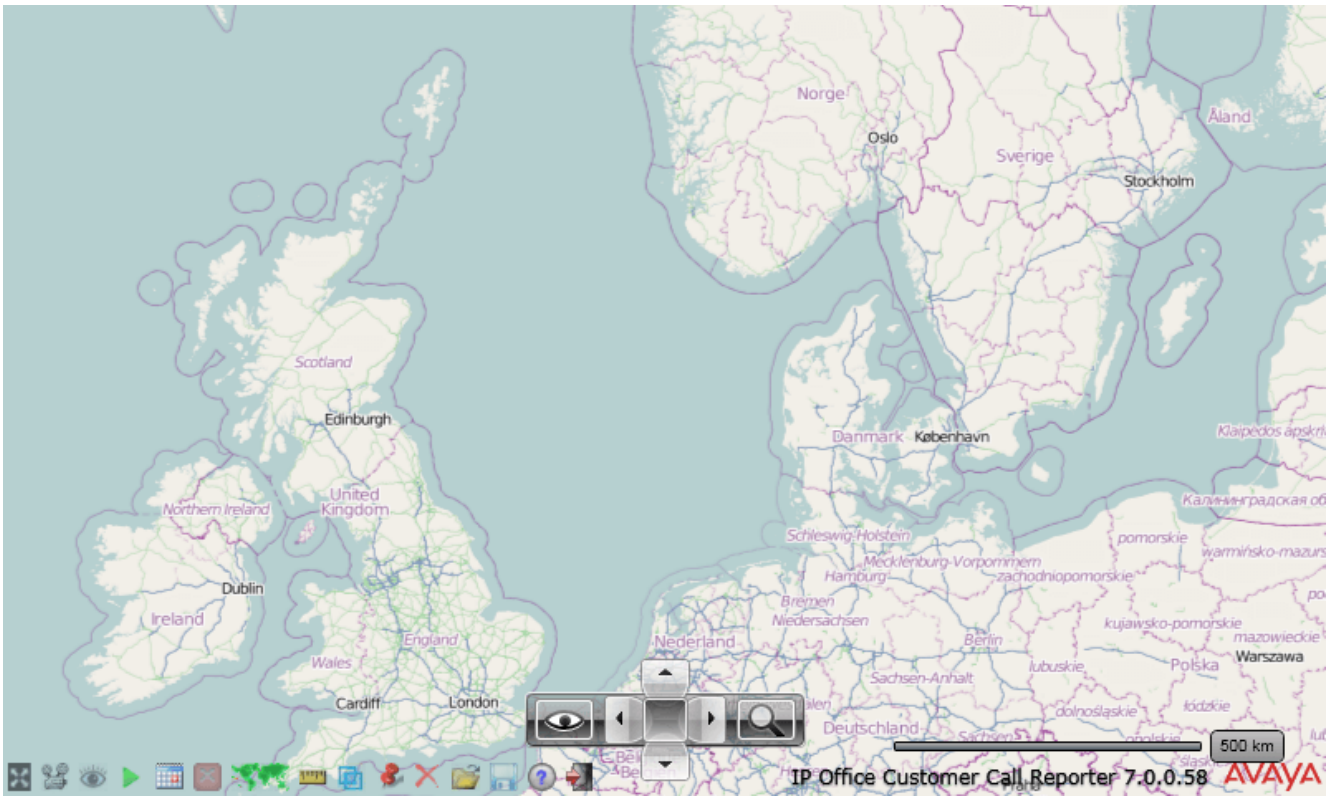
Example Graph

To view a graph

1. Click **Graph**. The graph is displayed in a new window or tab depending on the browser being used.
2. Select the queue from the **Queue** drop down list. Then either select an agent from the **Agent** drop down list or select a statistic from the **Statistics** drop-down list. Agents can only select themselves or a queue of which they are a member.
3. Select the statistic to monitor and whether it should include internal and or external calls.
4. Select the **Time Frame** for the horizontal axis. The graph will be updated approximately every 1/360th of the selected time frame, for example a time frame of 1 hour means the graph will update approximately every 10 seconds. Once the full time frame is filled, old data points are removed as new data points are added.
5. Click **Start** to run the graph.
6. If you want to change the settings, click **Stop** to halt the graph, and then change the settings. Clicking **Start** again will clear the existing data from the graph.

2.5 Customer Map

The customer map shows the location of callers based on the caller's number. When a caller's location has been identified [116], a pin is placed on the map at that location. The color of the pin [115] changes with the volume of calls that match that same location. When the caller cannot be resolved beyond just a country, a colored button is used instead of a pin. Hovering your cursor over a pin or button displays details of the location and the number of callers from that location.



The map controller in the middle is used to zoom, scroll and select the type of map detail required. The scrolling and zooming functions can also be done with a mouse (click and drag to scroll, use a scroll wheel to zoom). To show/hide the map controller click its middle square.

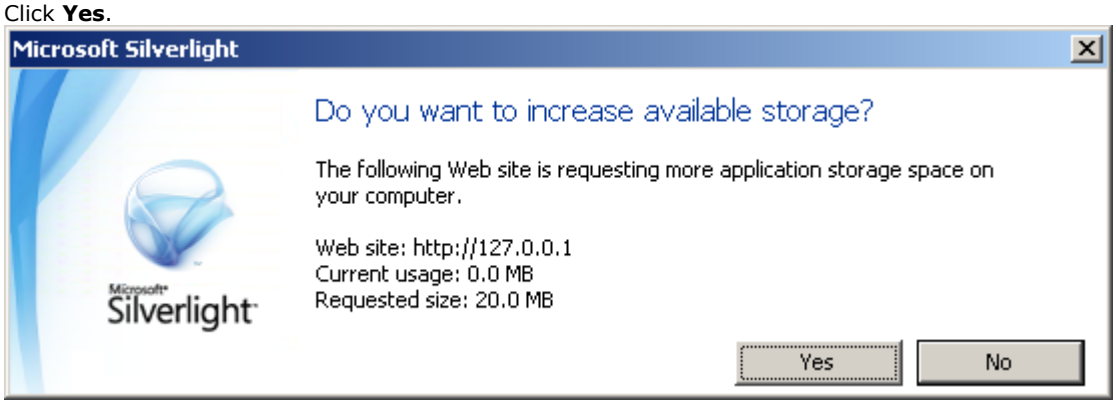
Use the Customer Map		
• View the customer map [113] • Understand the pin colors [115]	• Select the map type [118] • Map historical calls [119]	• Add a map overlay [120]

2.5.1 Starting the Customer Map

- **Microsoft Silverlight**
  The IP Office Customer Call Reporter wallboard and customer map functions use Silverlight. When logging in at a computer without Silverlight installed, if the computer has access to the internet, you will be prompted to install Silverlight. If the computer does not have access to the internet, Silverlight must be installed manually. Full details of Silverlight and the browsers on which it is supported can be obtained at http://www.microsoft.com/silverlight.

  - **Chrome and Silverlight**
    To use Silverlight with Google Chrome additional options need to be enabled in the Chrome browser. If not enabled, Silverlight prompts for installation each time the browser is used. See Enabling Silverlight in Chrome 334.

1. Login to IP Office Customer Call Reporter as a supervisor.
2. Click the **Customer Map** icon.
   - While running, the Microsoft Silverlight used by the customer map needs to store data on the browser computer. If it does not have sufficient space you will be prompted to allow it to use space on your computer. Click **Yes**.



3. Click the **Start** icon to start plotting calls as they arrive. Click **Pause** icon to pause realtime plotting

2.5.2 Map Icons

The icons at the bottom left can be used to access a range of functions.

- **Toggle Full Screen Mode**
  Switch the customer map between full screen and normal view.
- **Change Animation Settings** 121
  Change the Silverlight animation settings.
- **Best Fit**
  Set the zoom to best fit the current pins on the map.
- **Start / Pause Realtime Plotting**
  When loading pins for historical calls 119, the process can be paused and restarted.
- **Historical Plot Range** 119
  Specify a date and time range for pins that should be added to the map.
- **Stop Historical Plotting**
  Stop historical plotting.
- **Select Map Provider**
  Switch to a different map provider.
- **Toggle Scale**
  Switch the map scale between miles or kilometers.
- **Select Overlay**
  Use this to select an overlay file to combine with the map.
- **Find Location**
  Use this option to enter a telephone number or place name to test pin location operation.
- **Delete**
  Clear all pins from the view.
- **Load File**
  Load a previously saved set of pins.
- **Save Current Map**
  Save the current set of pins as a file.
- **Help**
  Display customer call map help. Not clickable in full screen mode.
- **Exit**
  Exit the customer map view. Not clickable in full screen mode.

2.5.3 Map Pins

When a caller's location has been identified [116], a pin is placed on the map at that location. The color of the pin changes with the volume of calls that match that same location. When the caller cannot be resolved beyond just a country, a colored button is used instead of a pin.

Pin	Color	Calls	Button
	**Black**	1 call	
	**Dark Blue**	2 - 10	
	**Light Blue**	11 - 100	
	**Green**	101 - 1,000	
	**Yellow**	1,001 - 10,000	
	**Orange**	10,001 - 100,000	
	**Red**	100,001+	

Hovering your cursor over a pin or button displays details of the location and the number of callers from that location.



2.5.4 How is the Caller's Location Determined

IP Office Customer Call Reporter includes files that can match the telephone country codes for all countries and area codes within most countries. Once the call is matched to a named place, a query is sent to the map provider service to identify where that place is on the geographic map.

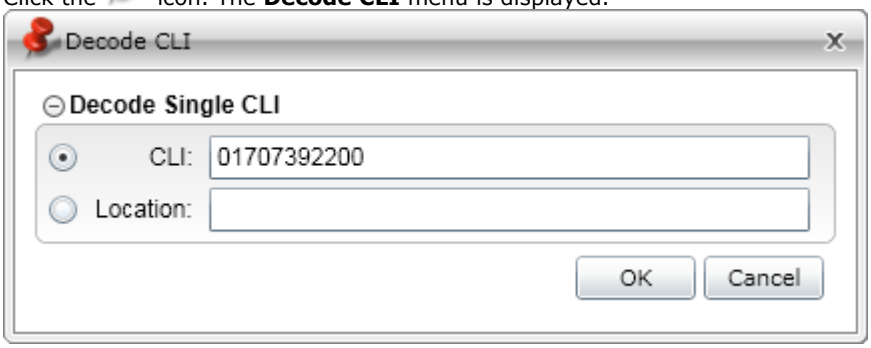
Where additional detail is required, the IP Office Customer Call Reporter maintainer can edit the set of files to add additional area and local area codes.

For India and the United States, an enquiry using the number is sent to the mapping services, so IP Office Customer Call Reporter does not need its own area code files to match numbers to country and area names.

Testing a PIN Location Match

You can use the customer map to manually place a pin at a location based on a telephone number or location name.

1. Click the  icon. The **Decode CLI** menu is displayed.



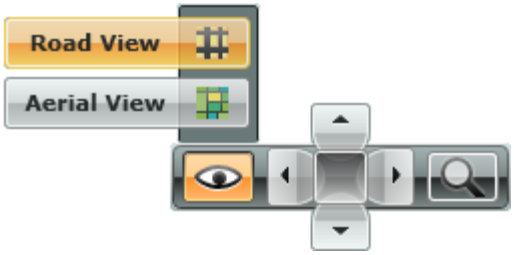
2. Select either **CLI** for a match by number or **Location** for a match by place name.
3. Enter either a telephone number or location. Adding more details increases the chances of an accurate location match.
   - Enter a CLI without any external dialing prefix even if your telephone system uses an external dialing prefix for outgoing calls. If you do not include a international dialing country code or an area code, the default settings 202 configured by the system administrator will be used.
   - Enter a location in decreasing detail, for example *"town, state, country"* with each part separated by a comma.
4. Click **OK**.
5. If a match is obtained, a pin will be inserted at the matching location.

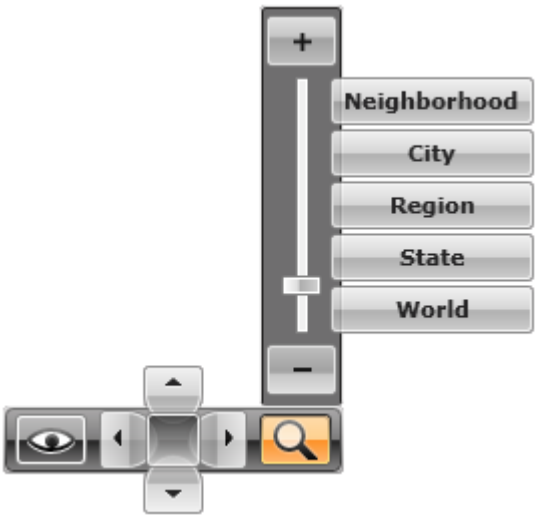
2.5.5 Map Control

The map controller in the middle is used to zoom, scroll and select the type of map detail required.



- To hide the map controller, click its middle square.
- To unhide the controller, click the  square.
- To scroll the map, click the ◀ ▲ ▼ ▶ arrow buttons. Alternatively you can click and drag the map.
- To change the map detail, place the cursor over the eye icon and select the type of map detail required.
- The options available will depend on the currently selected map provider.

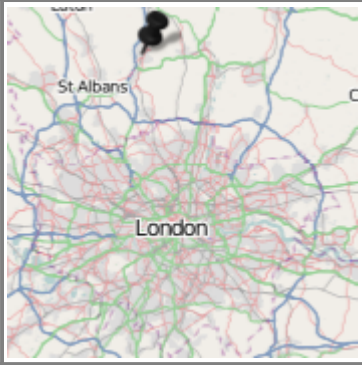
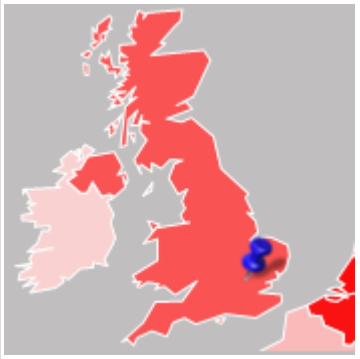




- To change the zoom, place the cursor over the magnifying glass icon. Use the slider to change the zoom level or click one of the preset zoom levels.
  - Alternatively:
    - You can change the zoom levels using a mouse with a scroll wheel.
    - To zoom in on a particular spot, double-click it.

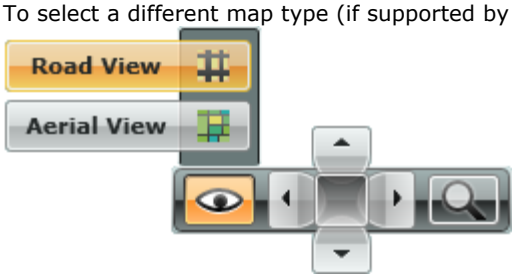
2.5.6 Map Selection

The customer map can use a number of different map backgrounds. These vary by map provider and map type.

Map Type	Map Provider		
	Open Street Maps	Yahoo Maps	Outline Map
Road View			
Aerial View			

The outline map is provided directly by IP Office Customer Call Reporter and is useful when Internet speed for map picture updates is limited. However it is a limited country outline only map.

- To switch between the different map providers click the  icon.
- To select a different map type (if supported by the provider) use the map controller.



2.5.7 Create an Historical Map

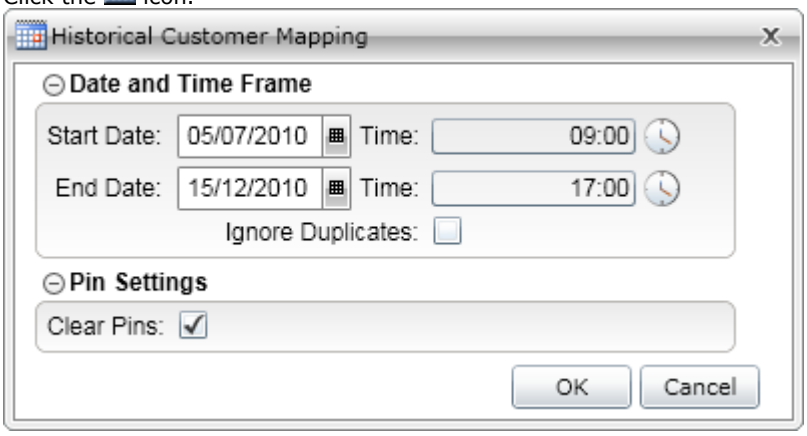
You can use the customer map to plot previous calls within a selected time range.

Stopping and Clearing Realtime Call Plotting

By default, the customer map plots calls as they occur. Use the and icons to pause and resume real-time call plotting.

Plotting Historical Calls

1. Click the icon.



2. Enter the date and time range for which you want the calls plotted.
   - If **Ignore Duplicates** is selected, calls from the same number are only counted and plotted once. For scenarios where you have frequent calls from the same customers, this improves the speed of the map plotting. However it means that the pin count shown is for the number of unique callers rather than the total number of calls.
   - The **Clear Pins** option can be used to select whether any existing pins and buttons on the map are removed or not before the historical pins are plotted.
3. Click **OK**.
4. IP Office Customer Call Reporter will begin plotting the call pins for the specified time range in roughly the order that calls occurred.
5. Clicking on the icon stops the historical plotting. To restart it specify the range again using the icon.

Saving a Historical Plot

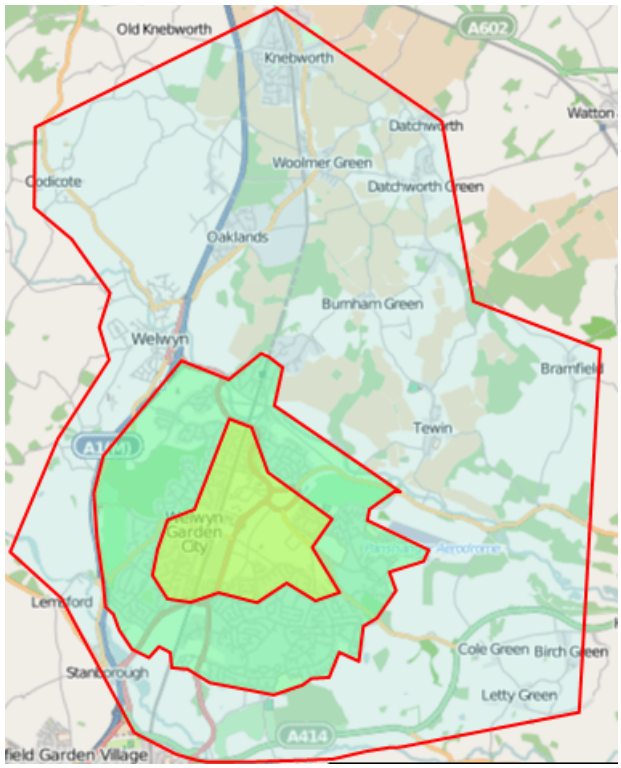
If the plot is of interest, you can save it as a file by clicking the icon and specifying a file name. The map can then be reloaded at anytime by clicking on the icon rather than having to replot all the calls. You can only load one historical file at any time.

2.5.8 Viewing an Overlay

You can place an overlay over the map. An overlay consists of placemarker icons, names, lines and shapes. An overlay is useful if you want to include additional information on the map. For example the location of your company's branches or boundaries to different sales areas.



Map with no overlay.



Map with local delivery area overlay.

Your system maintainer can set a default overlay that will be automatically added to all customer map views. If you load your own overlay, it will replace the default one for your viewing as only one overlay is supported at a time.

To add an overlay to the current display, click the icon and select the KML file from a location accessible by your computer.

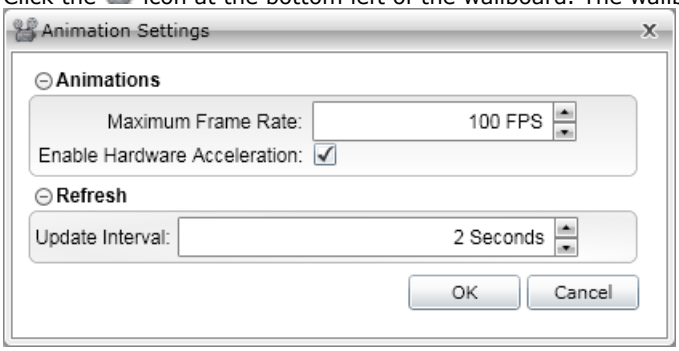
The overlay files use a format called KML which is used by many mapping programs. You can create and save your own simple KML overlay file using tools such a Google Earth or ScribbleMaps. IP Office Customer Call Reporter supports simple placemarkers, polygons and paths. It does not support ground and screen overlays.

Additional details are contained in the *Avaya IP Office Implementing IP Office Customer Call Reporter* (15-601133) manual.

2.5.9 Changing the Animation Settings

Silverlight is used by the IP Office Customer Call Reporter wallboard and the customer map features. Proceed as follows to control the frame rate and change other animation settings:

1. Click the icon at the bottom left of the wallboard. The wallboard animation settings are displayed.

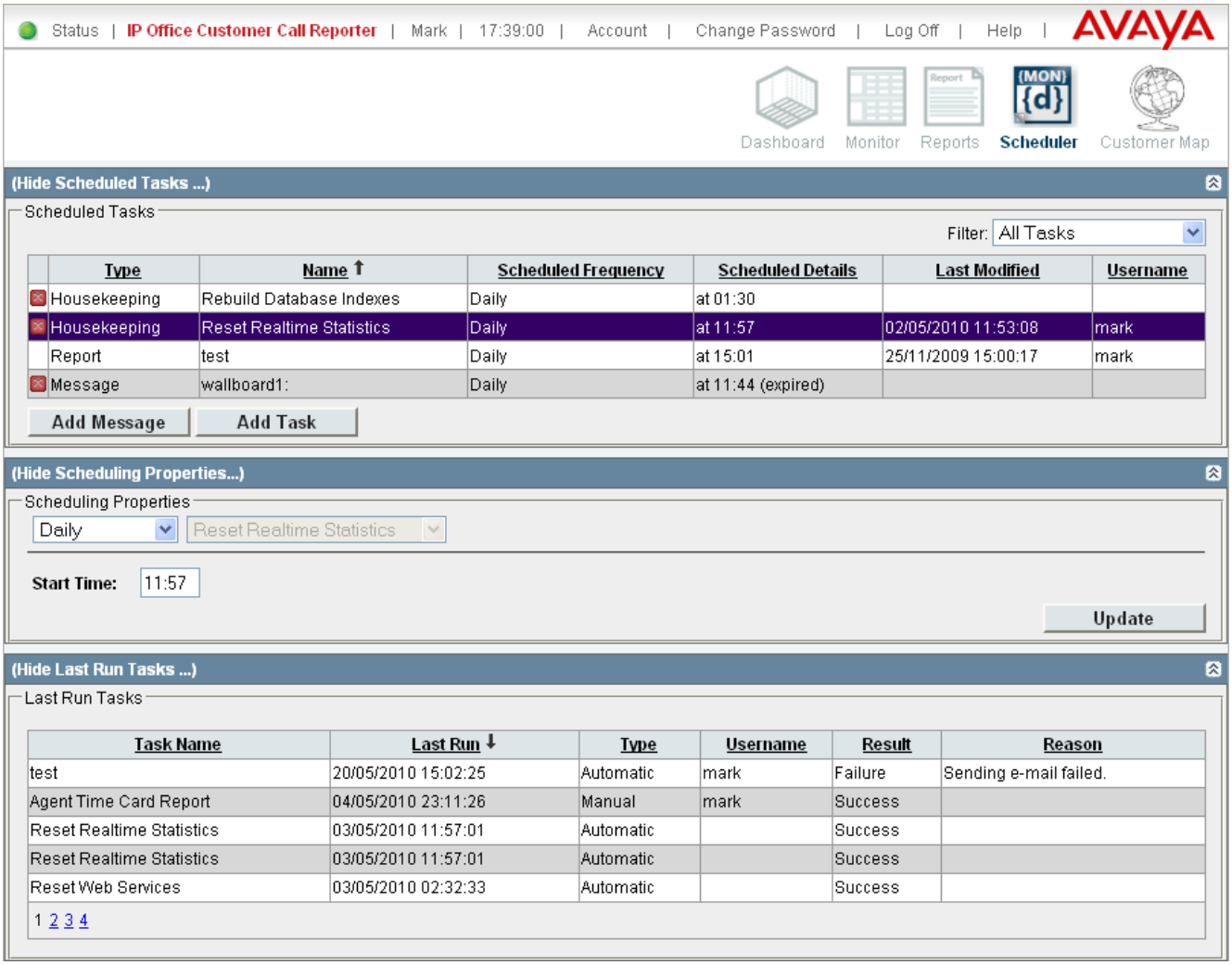


- **Maximum Frame Rate**
  Use the **Maximum Frame Rate** option to set the maximum frame rate that the wallboard can use. This option is useful to limit the maximum CPU usage. It does not set the actual current frame rate, which varies depending on both the wallboard content and the other processes being performed by the wallboard computer at an instance.
- **Enable Hardware Acceleration**
  Use the **Enable Hardware Acceleration** option to enable hardware acceleration. This option is not available if not supported by the wallboard computer. If supported, it is enabled by default. Note that for some wallboard computers, this setting only has an effect when running the wallboard in full-screen mode 175.
- **Update Interval**
  Use the **Update Interval** option to set the update interval for the statistics displayed on the wallboard in the range of 2-60 seconds. The default setting is 2 seconds.

2. Click **OK** to save any changes.

2.6 Scheduler

Supervisors can use the **Scheduler** options to schedule reports [125], wallboard messages [127] and housekeeping tasks [123]. The results of recently run scheduled tasks are also shown.

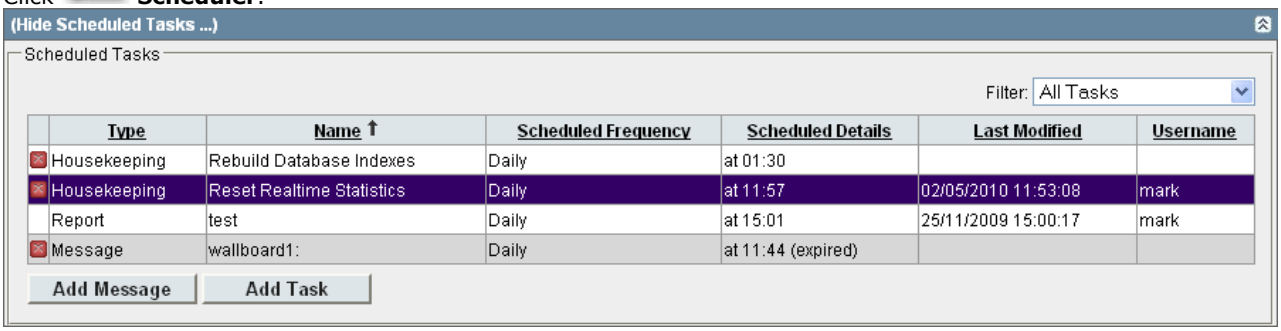


Schedule events		
• Schedule a report [125] • Reset the statistics automatically [123]	• Backup the database [123]	• Send Wallboard messages [127].

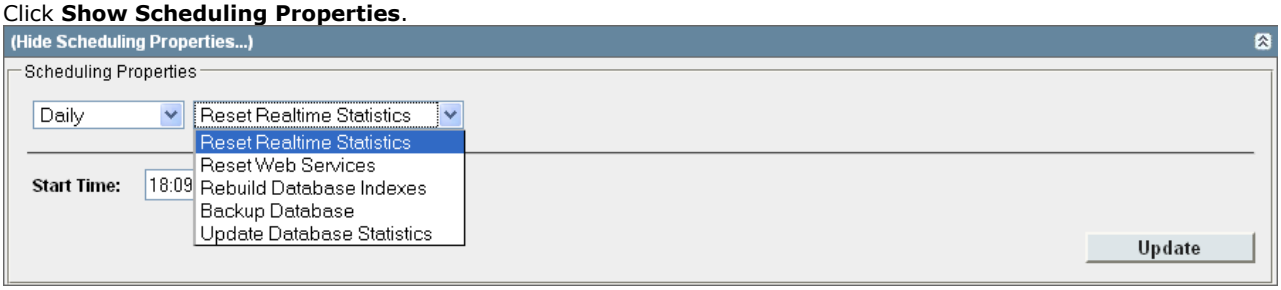
2.6.1 Scheduling Housekeeping Tasks

Supervisors for who the administrator has enabled the **Self-Administer** option can setup housekeeping tasks including tasks to reset all the statistics at specified times. This will affect all supervisor and agent views. It does not affect the statistics used for historical reports.

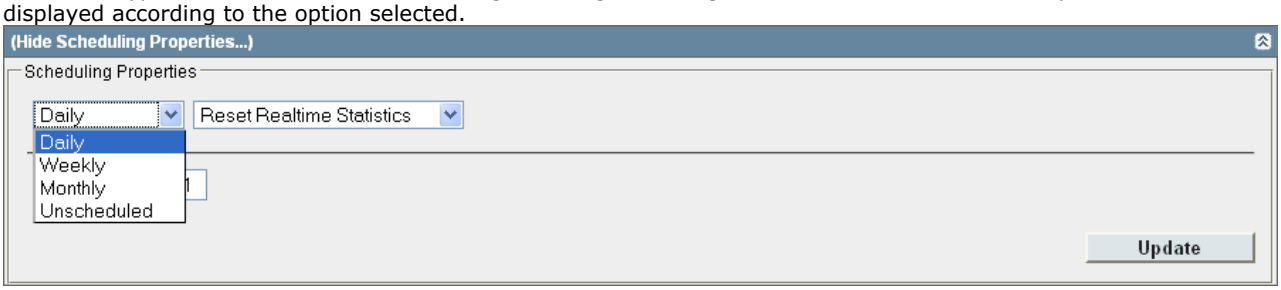
1. Click  **Scheduler**.



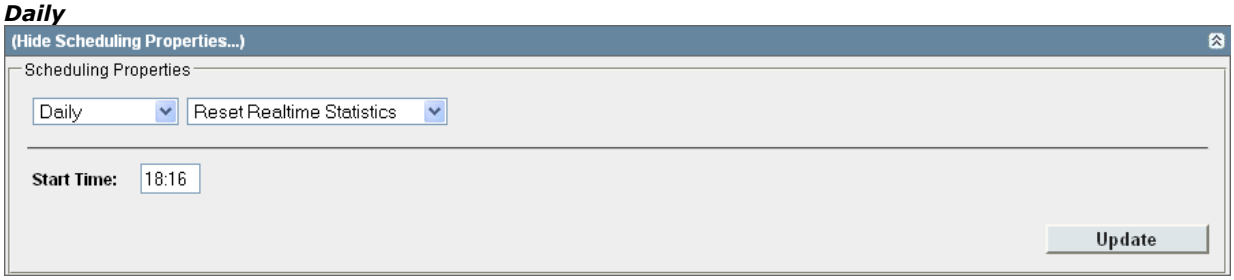
2. To add a new housekeeping task, click **Add Task**. To edit an existing housekeeping task, click it.
3. Click **Show Scheduling Properties**.



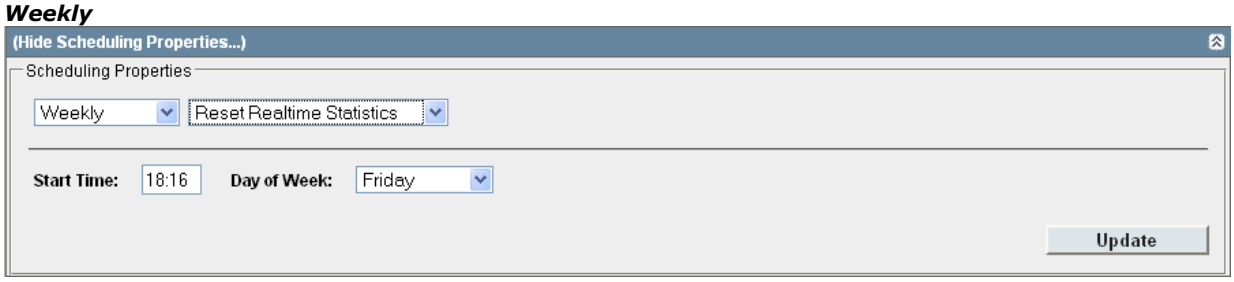
4. If adding a new task, select the type of task.
   - **Reset Realtime Statistics**
     Reset the statistics shown in all supervisor, agent and wallboard views.
   - **Reset Web Services**
     By default this task is already scheduled and occurs at 02:30. Note that when this action occurs, it will interrupt any connected browser session for several minutes and reset the session timeout for those sessions once operation is restored.
   - **Rebuild Database Indexes**
     By default this task is already scheduled and occurs at 23:00. It updates the database statistics and re-indexes the database. Doing this causes reports on historical data to run faster, however during the actual re-indexing the response of IP Office Customer Call Reporter is slowed.
   - **Update Database Statistics**
     This task is similar to **Rebuild Database Indexes** but does not include the database re-indexing part of that action. Following this, action reports will run slightly faster, however while the action is being performed it has less of an effect on the response of IP Office Customer Call Reporter than the **Rebuild Database Indexes** action.
   - **Backup Database**
     The backup database is placed into the default MS-SQL backups folder with a date and time prefix to the file name.
5. Select the type of schedule for the task: ***Daily***, ***Weekly***, ***Monthly*** or ***Unscheduled***. Additional options are displayed according to the option selected.



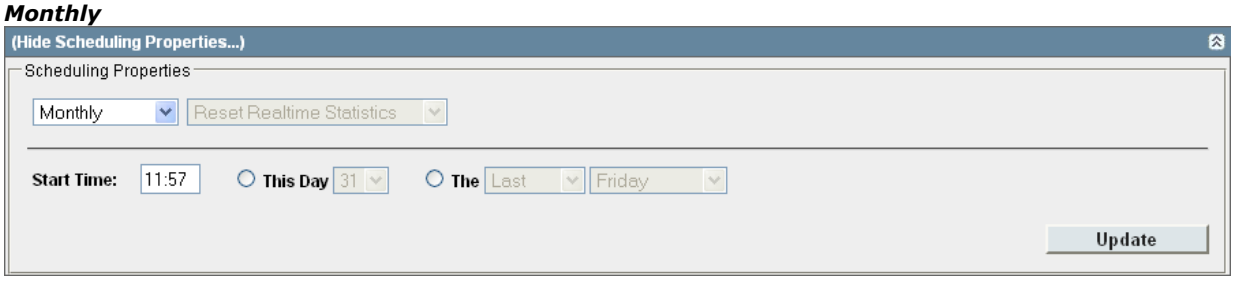
- ***Daily***



- ***Weekly***



- ***Monthly***



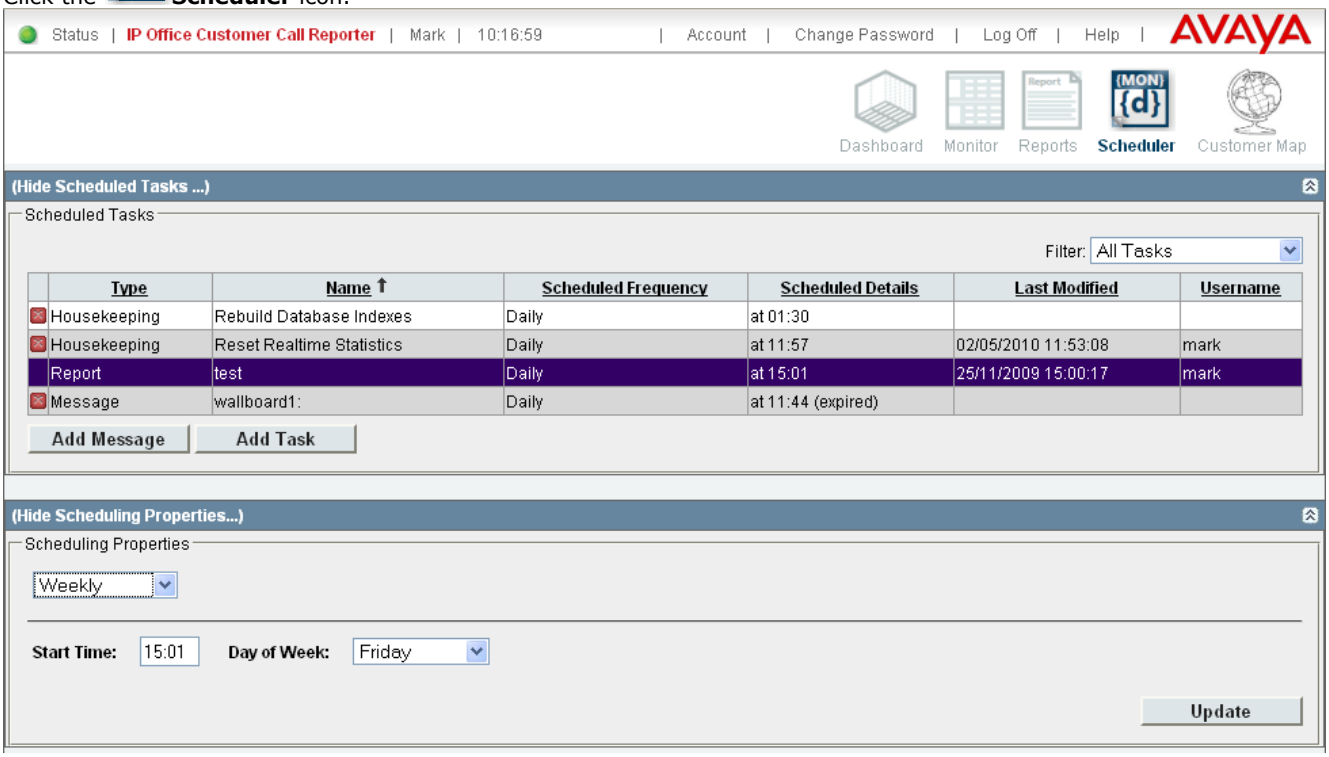
- ***Unscheduled***
  This schedule option has no other settings. It disables the task without deleting it from the task list.

6. Once the task is scheduled as required, click **Update**.
7. The task settings are shown in the **Scheduled Tasks** list.

2.6.2 Scheduling Reports

The **Scheduler** tab shows tasks including any reports you have created that have been saved with their **Scheduled** setting set to ***Automatic***.

1. Create a report as required and set its **Scheduled** option to ***Automatic***. The report destination, format and time range that it covers are set when creating and editing the report.
2. Click the **Scheduler** icon.

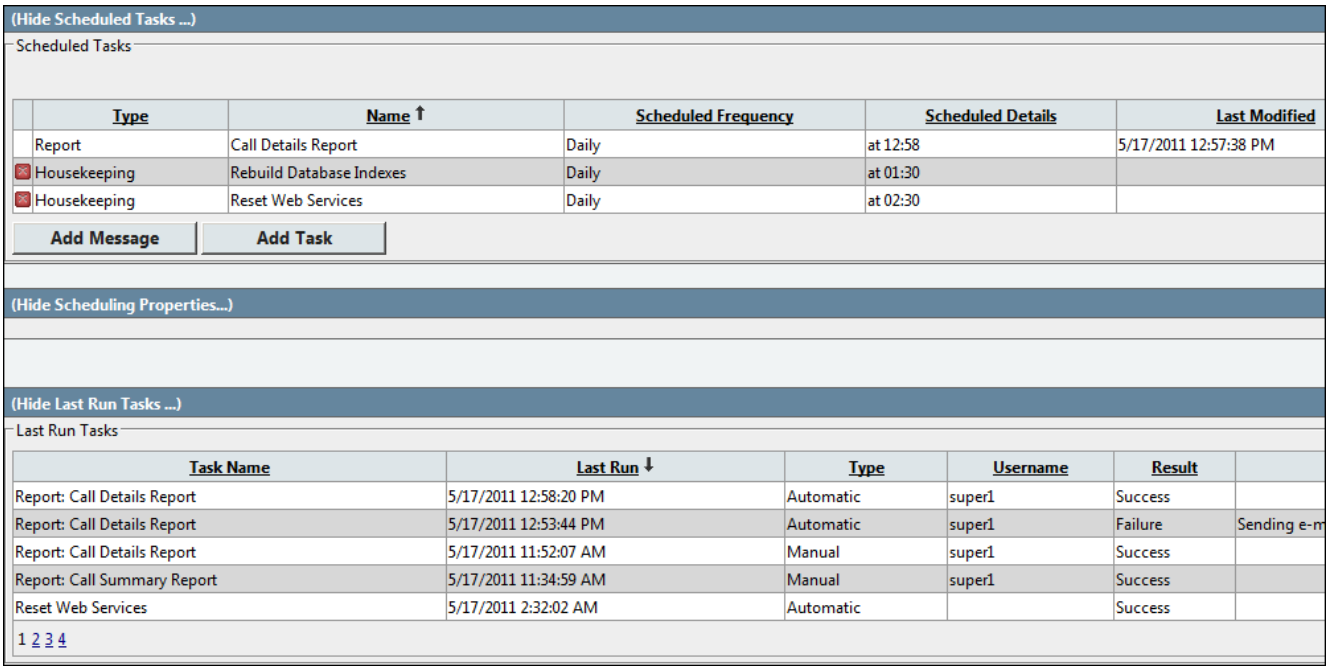


3. To schedule a report or to change the schedule, click the report to be amended in the **Scheduled Tasks** section.
4. Select the required option in the **Scheduling Properties**. Amend the report properties as required.

   - **Daily**
     If selected, you can then set a **Start Time** for when the report should be run each day. The default is ***09:00***. The option Include Weekends should be selected if you also want the report to run at weekends (Saturdays and Sundays).
   - **Weekly**
     If selected, you can then set a **Start Time** and **Day of Week** for when the report should be run each week. The default is ***9:00 Sunday***.
   - **Monthly**
     If selected, you can then choose either a day such as the last Friday of the month or a specific date within a month. If you select a date that exceeds the number of days in the month, the report gets scheduled for the last calendar day of the month. For example, if you select the report to be run on the 31st day of a month, the report will run on the 30th day of a month if there are only 30 days in the month.
   - **Unscheduled**
     Stop running the report on an automatic schedule.

5. Click **Update** to save your changes.

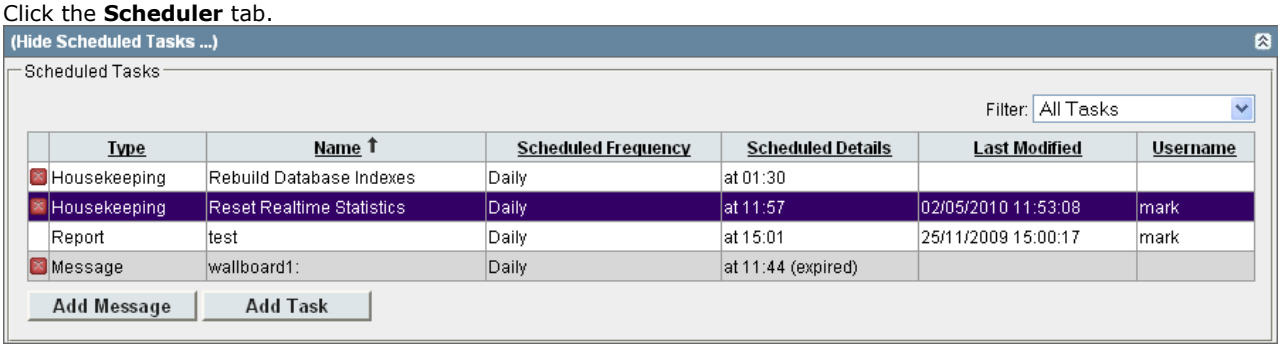
The system displays the recently run reports in the **Last Run Tasks** section. The **Result** column will display success if the report has been generated successfully or "failure" if the report does not generate.



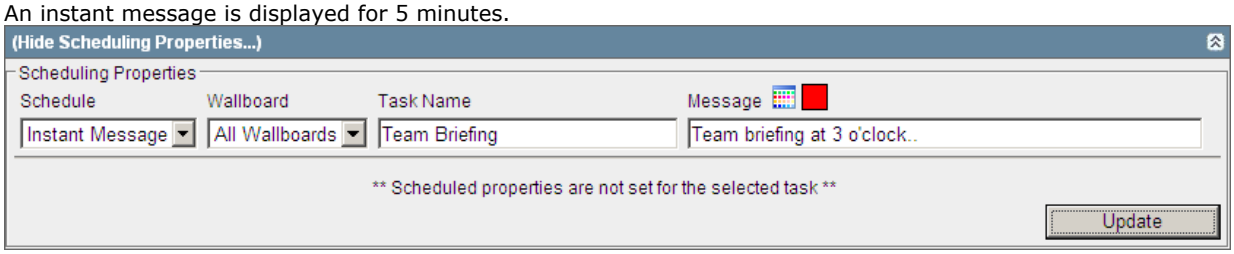
2.6.3 Scheduling Wallboard Messages

You can schedule messages to be sent to any wallboard. Alternatively you can send an immediate message that will be displayed for 5 minutes. When there are multiple messages scheduled for a wallboard, the messages are appended to each other as they are scrolled across the wallboard.

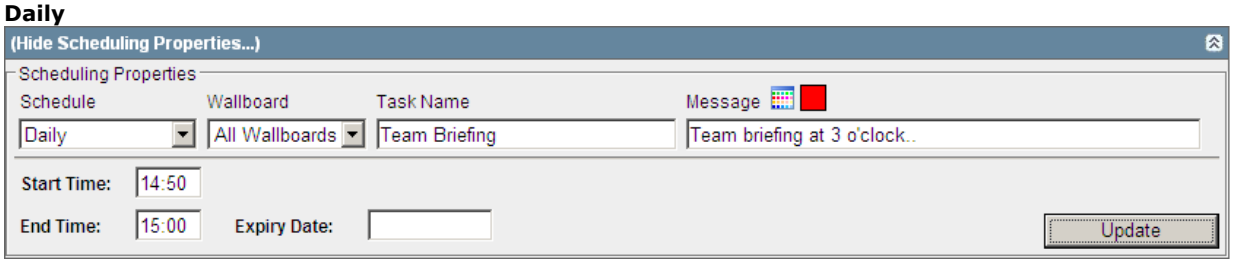
1. Click the **Scheduler** tab.



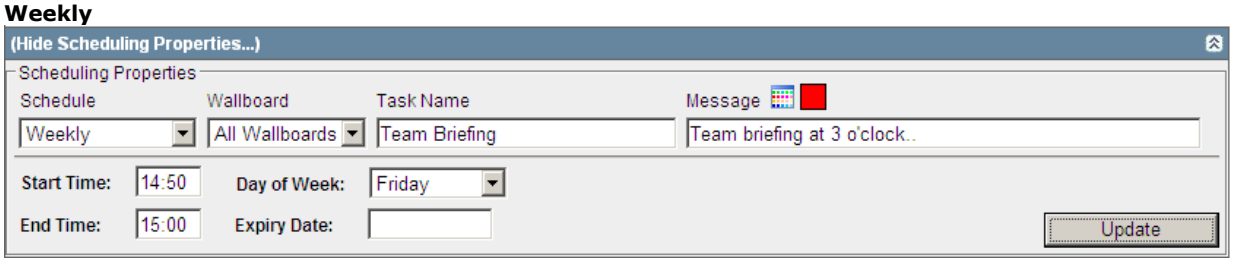
2. To add a new message click **Add Message**. To edit an existing message task, click it.
3. Click **Show Scheduling Properties** if you want to edit the scheduling settings.
4. Enter the text for the **Message**. This is the text that will be scrolled across the message area of the selected wallboard. Remember that this message may be included amongst other schedule messages and messages set by other supervisors. A space is automatically added at the end of each message but it may be useful to add more spaces or characters, for example, after the message text so that each message is clearly separated from any following message.
   - By clicking on the color palette icon you can select the color for the text message. The currently selected color is displayed in the colored square next to the icon.
5. Also enter a short **Task Name**. This is displayed in the task list.
6. Use the **Wallboard** list to select the wallboard to which the message should be sent.
7. Use the **Schedule** option to select when the message should be sent.
   - **Instant Message**
     An instant message is displayed for 5 minutes.



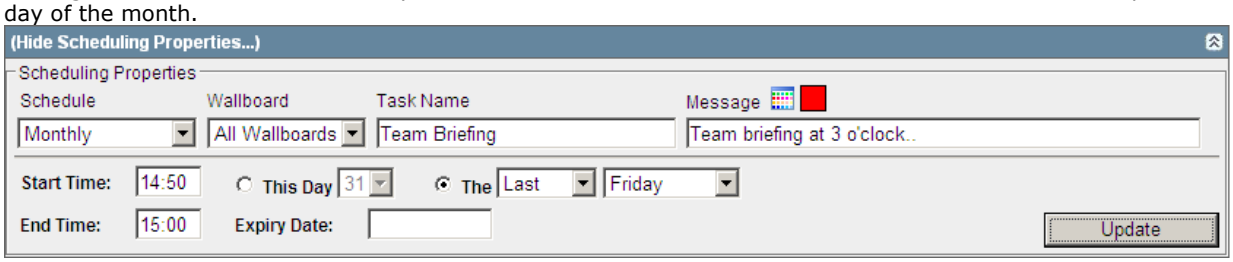
   - **Daily**



   - **Weekly**



- **Monthly**
  Messages that are scheduled monthly can be set to either occur on the same date each month or on a specific day of the month.



- If an **Expiry Date** is specified, the message scheduling ends on that date. However the message remains in the task list until deleted and can be reactivated by removing or changing the expiry date.

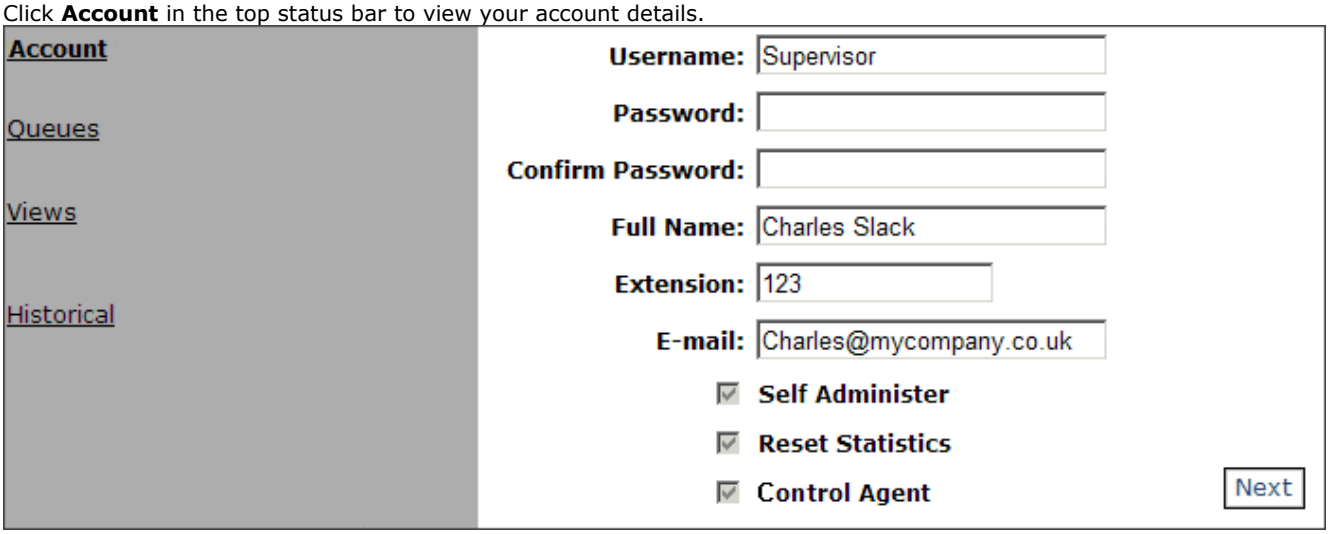
8. When the message is set as required click **Update**. The message details will be shown in the task list. If the schedule setting was Instant Message, the message will start being displayed for 5 minutes unless overridden by another scheduled message.

2.7 Account Details

The administrator creates supervisor accounts 191 and can amend those accounts. During that process they can specify whether you can self administer your account settings. There is a grayed-out check box next to the heading **Self Administer**. If ticked, you are able to update your account details. If not ticked, all the tab fields are grayed out and the message *"You are not permitted to administer the account"* is displayed.

To view/amend your account details

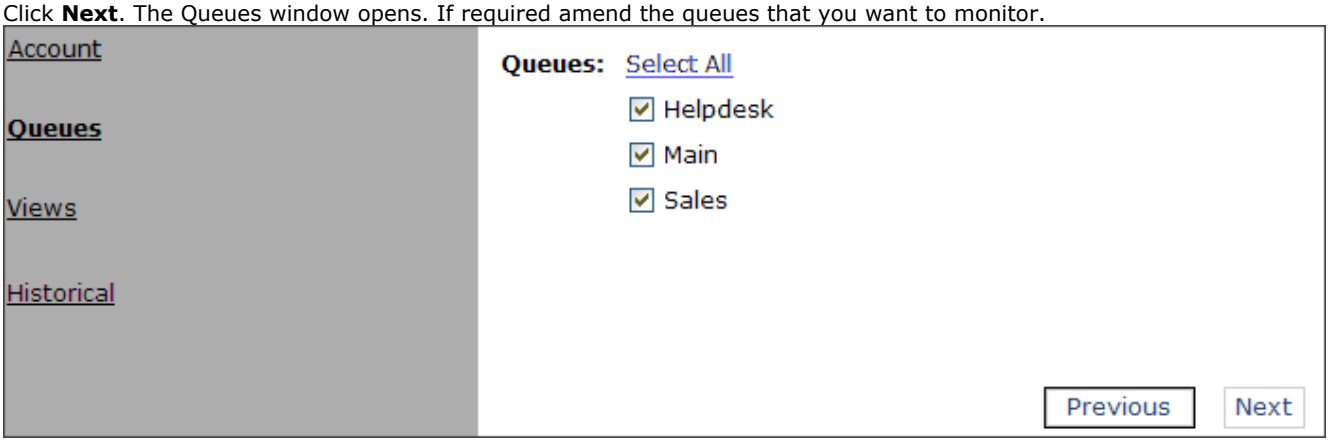
1. Click **Account** in the top status bar to view your account details.



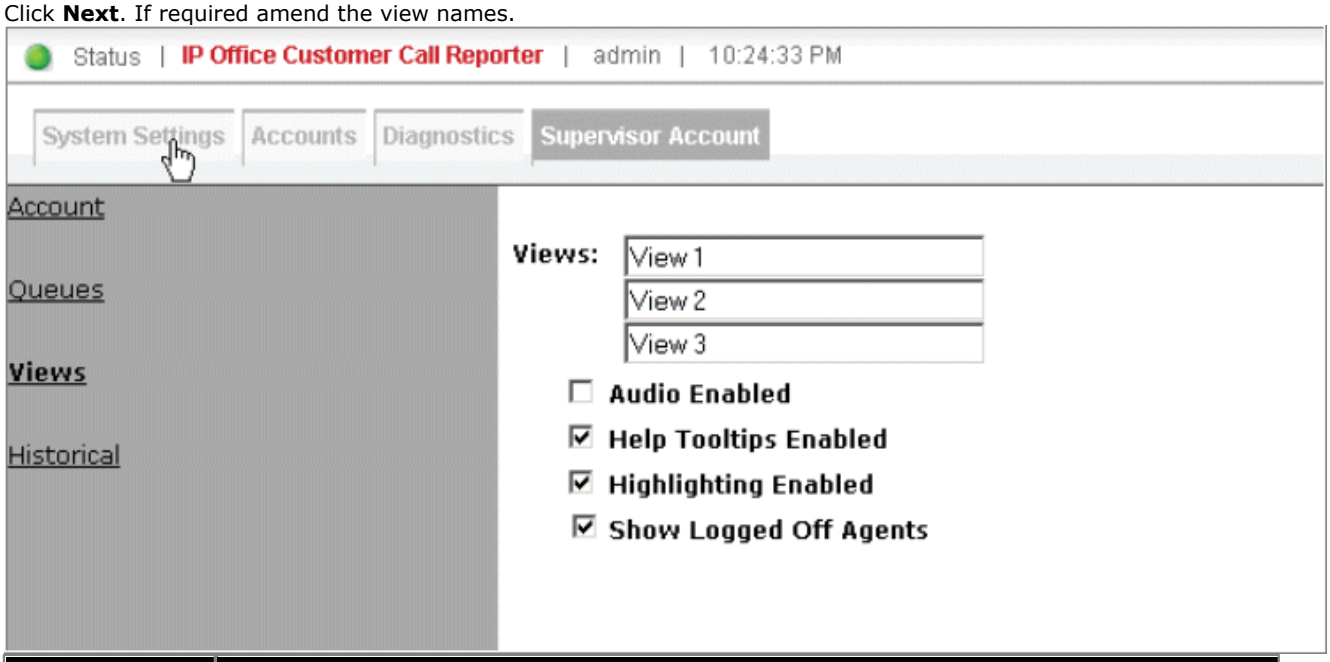
2. If the grayed-out option **Self Administer** has a tick mark you can amend your account details. If not, you can only view the first page of your account settings and cannot make any changes.

Field	Description
Username	This is the supervisor username used for logging in to IP Office Customer Call Reporter. If the name matches the administrator name and or an agent name then the user can also login in those roles. Supervisors cannot change their username. See Multiple Roles 331.
Password	This is the password used for browser access to IP Office Customer Call Reporter. All supervisors, even those without **Self Administer** rights, can use the Change Password 18 option to change their password.
Confirm Password	
Full Name	This name is shown to agents when they login and select their supervisor. It is also used in reports to indicate which supervisor created and ran the report.
Extension	The telephone extension number associated with the supervisor account.
E-mail	The unique e-mail address associated with the supervisor. This is used for the forgotten password 19 feature.
Self Administer	If selected, the supervisor has self administration rights and is able to edit some of their own Account Details 129. Supervisors with this option are also able to schedule housekeeping tasks 123 such as database backups and automatic statistic resets. Supervisors without this option are only able to edit views.
Reset Statistics	Supervisors for who the administrator has enabled the **Reset Statistics** option can reset all the statistics currently being used for supervisor views, agent views and wallboards. This will affect all supervisors, agents and wallboards. It does not affect the statistics used for historical reports.
Control Agent	Supervisors with this option enabled are able to click an agent name in a view and select from a list of actions that change the state of that agent. For example to force the agent to log in or log out. See Controlling Agent Status 110. This option requires IP Office Customer Call Reporter to be configured with details of the one-X Portal for IP Office 202 server.

3. Click **Next**. The Queues window opens. If required amend the queues that you want to monitor.



4. Click **Next**. If required amend the view names.



Field	Description
Views	Use these fields to rename the three views.
Audio Enabled	This option is used in conjunction with any view that includes an **All Views Alarm List**. When enabled, if an alarm occurs, the browser's media player is used to play a sound file from the IP Office Customer Call Reporter server computer. The sound is played to all users looking at that supervisor's views. • This option is off by default. If enabled, an audio plug-in is required for all user browsers. Use either Quick Time or Windows Media Player.
Help Tooltips Enabled	If enabled, when the cursor is placed over the statistic name in a view, pop-up help for the statistic is displayed. Tooltips are on by default.
Highlighting Enabled	If enabled, when a statistic in a view changes value, its background briefly changes to purple, then light purple and then back to the normal background color. This option is not applied to agent state and time values. Highlighting is on by default.
Show Logged Off Agents	This option is on by default. By default, the supervisor's monitor views include a row for each agent in the selected queue including agents who are currently logged off. If this option is de-selected, agents who are logged off are removed from the monitor view.

5. Click **Next**. The **Historical** window opens.



- **Recent Reports Archive:** *Default = 1 Week, Range = Up to 12*
  This value set how long the server should store copies of reports run by the Supervisor. Whenever the supervisor logs in, reports beyond this duration will be automatically deleted.
- **Open Reports in New Windows:** *Default = On.*
  This setting is used in two ways. It sets the default value for new reports 38. However, the value can be changed within the report if required. It is also used as the setting for the display of recent reports 49. If selected, manually run reports are opened in separate pop-up windows, and you can open multiple reports at the same time. However, it requires the browser to be configured to allow popup windows. If not selected, reports are opened in the right-hand panel of the IP Office Customer Call Reporter client window.

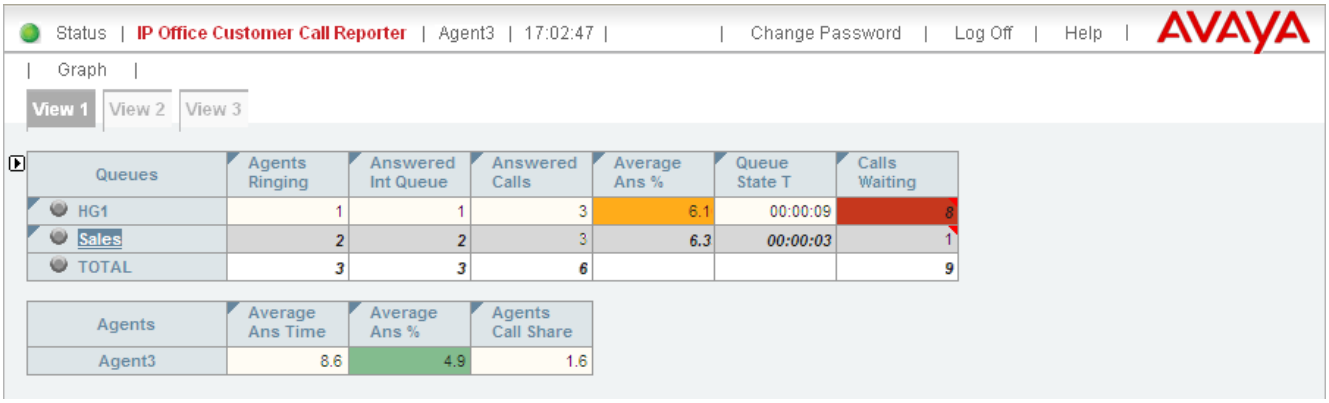
6. Click **Finish** to save your changes.

Chapter 3.
Agent

3. Agent

An agent is a user who handles calls to queues on the IP Office telephone system. Unlike general IP Office users they have been specifically configured as agents in the IP Office configuration. IP Office Customer Call Reporter supports up to 150 agents.

- To make and receive calls, the agent must login to a telephone on the IP Office telephone system. Note that T3 Series and T3 IP Series telephones are not currently supported.
- The agent's telephone status is recorded by IP Office Customer Call Reporter. For example when they logged in to a telephone, answer a call, log off, etc.
- The agents are also configured as members of queues and are then presented with call targeted to those queues. An agent can be a member of several queues.
- Using the web client, agents can see the same screen views as their supervisor. However, unlike the supervisor, the agents can only see their own statistics and for those queues to which they belong.



- **Blank Views!** While it is possible that the supervisor has not configured any content for a particular view, if all views are blank then you might have selected a supervisor whose views do not include any queues to which you belong.

Tabs

- **View 1/2/3** 135
  The 3 view tabs match those of the agent's supervisor. However unlike the supervisor's version you cannot adjust the view. Also you will only see queue statistics for the queues to which you belong and agent statistics for yourself.

Status 199	This button indicates the overall status of IP Office Customer Call Reporter. Clicking on the icon displays a **System Settings** 199 tab which shows the status of the individual IP Office Customer Call Reporter components. • **Green:** IP Office Customer Call Reporter is running. • **Yellow:** Some parts of IP Office Customer Call Reporter are still in the process of starting. • **Red:** There may be a problem in IP Office Customer Call Reporter.
Change Password 18	While logged in to IP Office Customer Call Reporter, you can change your password.
Log Off 21	Close the IP Office Customer Call Reporter connection. It is important to close a connection using this control rather than just closing the browser or tab within the browser. Failing to use this button will cause a 5 minute delay before you can log in again on another computer.
Help 20	Access this documentation in online format. Where possible the appropriate page for the current IP Office Customer Call Reporter screen is displayed.
Graph 112	Display a separate graph of a statistic for a selected queue or agent.

3.1 Logging In (Quick Start)

As an agent there are 2 main parts to using IP Office Customer Call Reporter. Logging in on a telephone extension and logging in to IP Office Customer Call Reporter using a web browser.

Information Required	
• **Your Extension Number**	This will be different from the number of the extension at which you log in.
• **Your Login Code**	This is assigned by the system maintainer.
• **Your Username**	This is assigned by the system maintainer.
• **Your Password**	Your initial password is blank but you will be asked to set one as part of the logging in process.
• **Your E-mail Address**	To use the Forgot Password 19 function, you must enter a valid e-mail address. If you have already entered an e-mail address in the IP Office configuration, it will be displayed.
• **Supervisor Name**	The name of your call center supervisor is requested while logging in to IP Office Customer Call Reporter. You then share their views of the statistics.
• **Web Address**	IP Office Customer Call Reporter is viewed using a web browser and so you will need to know its web address.

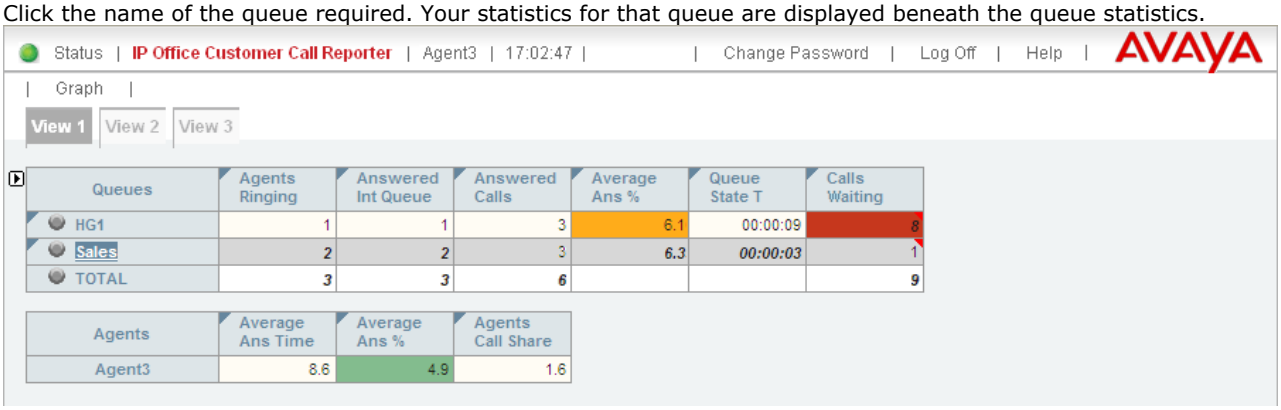
Logging In

1. **Login to an extension**
   You will need to know your own extension number (not that of the telephone at which you are logging in) and login code to do this.
   - If the telephone has a **Login** button on the display:
     - Press the **Login** button.
     - Dial your extension number and select **Next**.
     - Dial your login code and select **Done**.
   - The default dialing short code for logging in is ****35***.
     - Dial ***35**.
     - Dial ***** and then your extension number.
     - Dial ***** and then your login code.
     - Dial **#** to finish.
2. **Login to IP Office Customer Call Reporter**
   You will need to know your username and password to do this. If this is the first time you have logged in to IP Office Customer Call Reporter you will be asked to set a password and enter an e-mail address. For full details of the login process refer to Logging In 17.
   - Start your web browser.
   - Enter the web address of the IP Office Customer Call Reporter.
   - Enter your username and password. If this is the first time you have logged in to IP Office Customer Call Reporter, leave the password blank as you will be asked to enter one.
   - Click **OK** and select your supervisor.
3. **Select a View**
   There will be 3 tabs, each containing a view setup by your supervisor.
4. **Select a Queue**
   Select a queue within the view to see your own statistics for that queue.

3.2 Viewing Statistics

When you open the IP Office Customer Call Reporter web client in agent mode the window will look similar to the one illustrated. The view tabs, up to 3, are views that your supervisor has created. However, unlike their version of the view, you will only see queue statistics for the queues to which you belong and agent statistics for yourself.

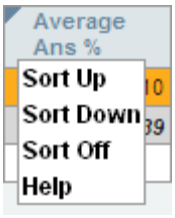
1. Click the name of the queue required. Your statistics for that queue are displayed beneath the queue statistics.



2. For details of what the different statistics mean see Statistics 206.

Adjusted Statistics

Once a statistic has been added to a view, its name is displayed at the top of the column.



1. Click the statistic name to display the statistic options:

- **Sort Up**
  Sort the view in ascending order using column's current values. When selected the statistic name displays an up arrow icon. Separate sorting can be applied to the agent statistics and the queue statistics. Note that while the queue section of a view is sorted, the selected queue to show in the agent section of the view cannot be changed.
- **Sort Down**
  Sot the view in descending order using this column's current values When selected the statistic name displays a down arrow icon. Separate sorting can be applied to the agent statistics and the queue statistics. Note that while the queue section of a view is sorted, the selected queue to show in the agent section of the view cannot be changed.
- **Sort Off**
  Remove the sort. The queues section returns to the order in which the supervisor or administrator arranged the queues when setting up the view. The agents section returns to alphabetical order except for logged off agents who are placed at the bottom of the view.
- **Help**
  Access help on the statistic.

Alarms and Warnings

For many statistics, alarm and warning thresholds can be set by supervisors. These thresholds are then applied to the whole column. They are also applied to the views seen by agents.

If the value in any cell in the column goes past one of the thresholds, the background color of that cell is changed. The following colors are used for the cells if the statistic has been enabled for alarms and or warnings.

Enabled / Cleared (Green)	**Warning** (Orange)	**Alarm** (Red)	**Acknowledged** (Blue)

Alarms and warnings are automatically cleared when the cell returns to the threshold level of the alarm or warning. Supervisors and agents can also acknowledge an alarm or warning by clicking on the relevant cell in their view. That cell is then indicated as acknowledged until the value returns to the threshold value and the alarm or warning is cleared.

If an alarm list or ticker has been added to the view, that also shows alarms and warnings.

- An alarm list shows the 100 most recent current alarms and warnings is a scrollable list of all the current alarms and warning. Alarms are shown first in chronological order followed by warnings in chronological order.
  - Alarms in the **Alarm List All Views** can also trigger an audible alarm if the supervisor's account 129 is set as **Audio Enabled**. This will be played to all users looking at that supervisor's views.
- An alarm ticker shows the 5 most recent current alarms and warnings one at a time, showing each for a few seconds before displaying the next.
- Alarms and warnings take the form: *Time, Type (Alarm or Warning), Name (Queue name, agent name), Current value, Statistic name.* For agent and queue state alarms, the state is included in the name. For ***Busy Not Available*** state alarms the reason code is included. For example:
  - *12:45 Alarm Sales 15 Calls Waiting*
  - *16:31 Warning Sales 120 Average Answer Time*
  - *17:20 Alarm Extn2101 Agent State Q – Busy Not Available (paper work)*
- Alarms and warnings are updated approximately every 8 seconds.
- Clicking on the underlined text in an alarm or warning will change the view to the one containing the alarm or warning and will also select the appropriate queue in that view.
- Alarms and warnings are removed from the list in when the relevant statistic drops back to the threshold level. The supervisor or agent viewer can also remove an alarm or warning by clicking on the appropriate colored cell of statistic value. Acknowledging an alarm or warning only affects their view.
- Alarms for database capacity are not shown within the alarm lists and trackers. They are shown during log in.

3.3 Statistic Colors

A number of different color backgrounds are used while displaying statistics. The following colors are used for normal statistics (these colors are not used in wallboards). The colors for changing statistic number values are optional (enabled by the supervisor's account setting 129 **Highlighting Enabled**) and are not applied to agent state and time values. They are also reset if you change view.

Normal (White)	**Alternate Row** (Light Gray)	**Just Changed** (Purple)	**Recently Changed** (Light Purple)

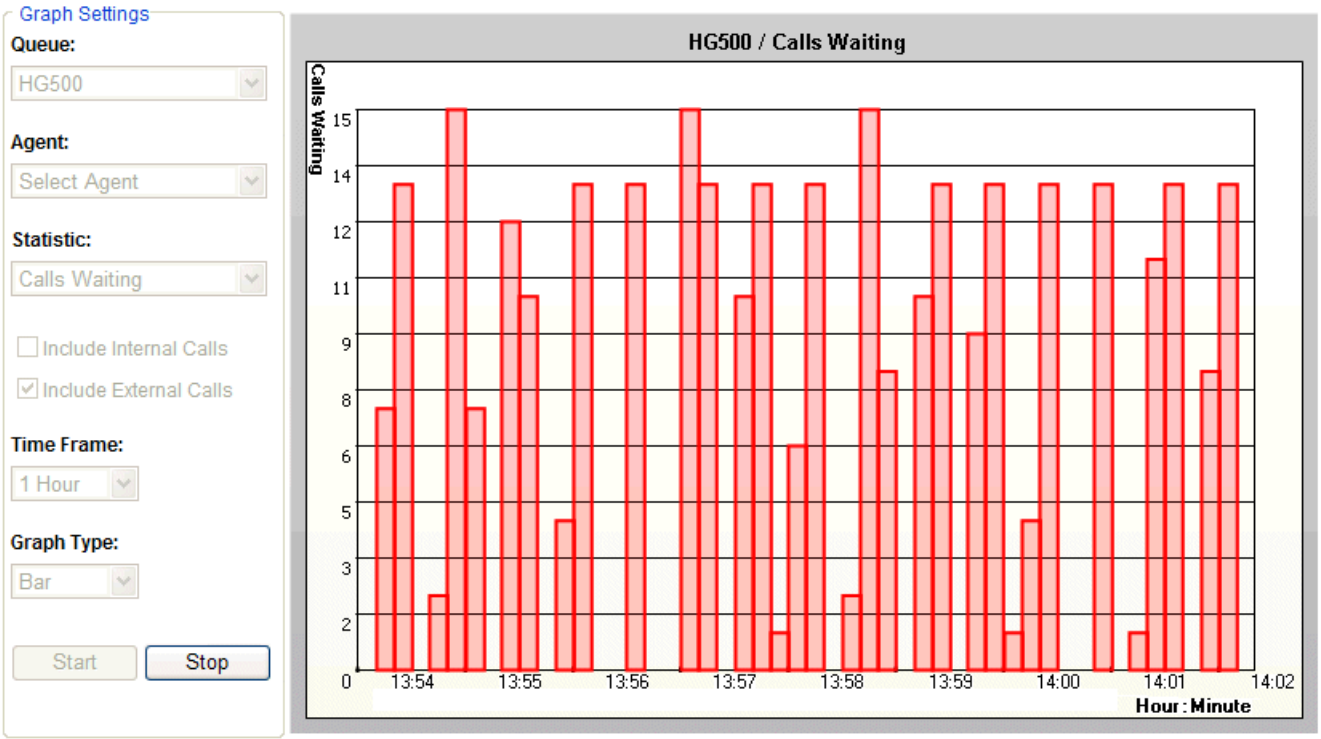
The following additional colors are used when any statistic is configured to display warnings and alarms. These colors override the ones above. Wallboards only display the colors for warnings and alarms.

Enabled / Cleared (Green)	**Warning** (Orange)	**Alarm** (Red)	**Acknowledged** (Blue)

Alarms and warnings are automatically cleared when the statistic value returns to the threshold level of the alarm or warning. Agents and supervisors can acknowledge an alarm or warning in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarms list.

3.4 Graph View

Supervisors and agents can select to have a graph running showing a selected statistic for a queue or agent. The graph is displayed in a new window or tab depending on the browser being used. Agents are restricted to their own statistics or queues to which they belong.



Example Graph

To view a graph

1. Click **Graph**. The graph is displayed in a new window or tab depending on the browser being used.
2. Select the queue from the **Queue** drop down list. Then either select an agent from the **Agent** drop down list or select a statistic from the **Statistics** drop-down list. Agents can only select themselves or a queue of which they are a member.
3. Select the statistic to monitor and whether it should include internal and or external calls.
4. Select the **Time Frame** for the horizontal axis. The graph will be updated approximately every 1/360th of the selected time frame, for example a time frame of 1 hour means the graph will update approximately every 10 seconds. Once the full time frame is filled, old data points are removed as new data points are added.
5. Click **Start** to run the graph.
6. If you want to change the settings, click **Stop** to halt the graph, and then change the settings. Clicking **Start** again will clear the existing data from the graph.

3.5 Agent Telephone Controls

IP Office Customer Call Reporter tracks your status through your telephone extension. Many of the states that IP Office Customer Call Reporter reports are automatically determined by the system but you can control the following key states through your telephone.

Note that all of these features may not be available to you. The features that are available to you may have been configured using different text labels or dialing codes.

- **Logging In** 139
  The state 'Logged In' refers to being logged onto a telephone on the telephone system and therefore able to start receiving and making calls. To log in, you need your extension number and your login code. When you login at an extension, your user settings are applied to that telephone. If the extension has a normal user, they are logged off while you are logged in. If you were previously logged in at another extension, you are automatically logged off from that extension.
- **Logging Out** 140
  Logging out stops you from receiving any further calls. If the log off is successful you will either see the name of the telephone's normal user on the display or ***NoUser***.
- **After Call Work** 141
- **Busy Not Available** 142
- **Queue Membership** 143

A range of other telephone controls and their effects on statistics are discussed in the Call Scenarios 273 section. They are:

- **Bridged Call Appearances** 326.
- **Call Pickup** 326.
- **Calls on DECT R4 Set** 327.
- **Do Not Disturb** 327.
- **Call Coverage** 327.
- **Follow Me** 328.
- **Forwarding Calls** 328.
- **Internal Twinning** 329.
- **Line Appearances** 329.
- **Mobile Twinning** 329.
- **Telecommuter** 329.
- **Transferring Calls** 280.
- **Voicemail** 311.

Most Avaya telephones have a number of programmable buttons which can be used for special functions which can include functions specific to IP Office Customer Call Reporter. Buttons can be provided by the telephone system maintainer for logging in, logging out, enabling/disabling group membership and controlling Busy Not Available and After Call Work.

Various IP Office functions can be programmed against sequence of numbers that can be dialed from user telephones. This includes functions used by IP Office Customer Call Reporter agents.

3.5.1 Logging In

The state 'Logged In' refers to being logged onto a telephone on the telephone system and therefore able to start receiving and making calls. To log in, you need your extension number and your login code. When you login at an extension, your user settings are applied to that telephone. If the extension has a normal user, they are logged off while you are logged in. If you were previously logged in at another extension, you are automatically logged off from that extension.

- **Programmable Button** 343
  Most Avaya feature telephones supported by IP Office have programmable buttons 343. The IP Office system maintainer can program each of these buttons with features for use by the telephone's user.
  - If the telephone has a **Login** button on the display:
    - Press the **Login** button.
    - Dial your extension number and select **Next**.
    - Dial your login code and select **Done**.

- **Dialing Short Code** 345
  The IP Office telephone system maintainer can set up dialing short codes 345 that support special features to be accessed by dialing the short code number.
  - The default dialing short code for logging in is ****35***.
    - Dial ***35**.
    - Dial ***** and then your extension number.
    - Dial ***** and then your login code.
    - Dial **#** to finish.

- **one-X Portal for IP Office Login**
  When you log in to one-X Portal for IP Office, you can use the **Login to phone** options on the one-X Portal for IP Office login menu to specify at which telephone you want to login, if you are not already logged in.

The IP Office maintainer can setup a method for agents to change their login code themselves if required.

3.5.2 Logging Out

Logging out stops you from receiving any further calls. If the log off is successful you will either see the name of the telephone's normal user on the display or ***NoUser***.

- **Programmable Button** 343
  Most Avaya feature telephones supported by IP Office have programmable buttons 343. The IP Office system maintainer can program each of these buttons with features for use by the telephone's user.
  - A **Hunt Group Enable** button, depending on how it is configured, can be used to enable/disable an agent's membership of a particular group or all groups to which of which they are a member. The button indicates the current state of the membership.

- **Dialing Short Code** 345
  The IP Office telephone system maintainer can set up dialing short codes 345 that support special features to be accessed by dialing the short code number.
  - If the phone does not have a **Logoff** button, you can dial a short code. The default for most IP Office telephone systems is **36*.

- **one-X Portal for IP Office Logout**
  For IP Office Customer Call Reporter agents, when you log out of one-X Portal for IP Office you are also automatically logged out of the telephone you were using.

3.5.3 After Call Work

After Call Work indicates that the agent is not available to receive queue calls 343 while they perform some other call related activity. Typically this is used for activities such as call records and data entry that need to be completed before handling another call. A number of controls are available for After Call Work 141. Agents can be configured to be automatically put into ACW state after a queue call or else they can manually select to enter the state when required.

Note: The Wrap-Up 347 feature briefly applied to the end of all calls including queue calls is also reported as **After Call Work** state.

- **Programmable Button** 343
  Most Avaya feature telephones supported by IP Office have programmable buttons 343. The IP Office system maintainer can program each of these buttons with features for use by the telephone's user.
  - **After Call Work Button**
    You press the **ACW** button on your telephone. The button will indicate when you are in After Call Work state (manual or automatic). You can press the **ACW** button on your telephone to manually exit After Call Work state.
    - 1400, 1600, 2400, 5400, 4600, 5600, 9500 and 9600 Series telephones with available programmable buttons.

- **Dialing Short Codes**
  The short code features ***Start ACW*** and ***Clear ACW*** can be used to manually start and clear after call work.

- **one-X Portal for IP Office After Call Work**
  Using the **Agent Control** gadget, under **Agent State** select ***After Call Work***. The system can be configured to do this automatically after each queue call. To exit after call work status use the control to select ***Available***.

Automatic After Call Work

The IP Office telephone system maintainer can configure individual agents to be automatically put into After Call Work state when they end a queue call. This option is only supported for agents when using a telephone with an ACW button as detailed about.

Disabling After Call Work

The IP Office system maintainer can disable the use of After Call Work by all agents or an individual agent. When this is done, buttons and dialing short codes for After Call Work will not operate.

Wrap Up

For all telephone users, the IP Office telephone system applies a short delay, by default 2 seconds, during which the user is indicated as still being busy to further calls. The main function of wrap up is to give analog telephone users, who have just finished a call, the opportunity to start dialing a short code or to start making a call before another incoming call is presented to them.

For users set as agents, the period of wrap up applied to their telephone is reported as their being in the **After Call Work** 336 state. If the agent is also set for automatic after call work, the wrap up period is applied first and then the automatic after call work period is begun.

3.5.4 Busy Not Available

This agent state indicates that the agent is not available to receive calls while they perform a non-call related activity such as attending a meeting. This state can be selected by an agent using the DND or SAC button on their telephone, see Agent Telephone Controls 138. This also requires the agent to select one of the reason codes 344 displayed on their telephone to indicate the reason they are going into the **Busy Not Available** state.

If this state is enabled while a queue call is being presented, the call will go to the next available agent and cause the **No Answer** statistic for the agent and queue to be incremented.

For agent on the following telephones, when they select the **Busy Not Available** state using a button on their telephone they will be prompted to select a reason code if any have been configured on the telephone system.

- 1400, 1600, 2400, 5400, 4600, 5600, 9500 and 9600 Series telephones with available programmable buttons.

The codes are configured on the telephone system by the system maintainer. The reason code is displayed as part of Agent State (Queue) statistic information.

Up to 8 custom reasons can be configured plus the following two fixed reasons:

- **Automatic**
  This reason is used if the agent is using a telephone that supports reason code selection but fails to select a reason. For example if they enabled Busy Not Available through a short code, using one-X Portal for IP Office or were forced into it by the IP Office's **Agent Status on No Answer** feature.
- **Unsupported**
  This reason code is used for agents using telephones that do not support the selection of a reason code.

- **Programmable Button** 343
  Most Avaya feature telephones supported by IP Office have programmable buttons 343. The IP Office system maintainer can program each of these buttons with features for use by the telephone's user.
  - You can select the Busy Not Available state by pressing a **DND** (Do Not Disturb) or **SAC** (Send All Calls) button on your telephone. You will then be requested to select a reason code from a list displayed on the telephone. The available reason codes are configured by the IP Office system maintainer.

- **Dialing Short Code** 345
  The IP Office telephone system maintainer can set up dialing short codes 345 that support special features to be accessed by dialing the short code number.
  - Dial a **Do Not Disturb On** short code. The default short code is ***08***. This method does not require the entry of a reason code and so is reported just **Busy Not Available**.
  - Dial a **Do Not Disturb Off** short code. The default short code is ***09***.

- **one-X Portal for IP Office Busy Not Available**
  Using the **Agent Control** gadget, under **Agent State** select ***Busy Not Available***. Under **Reason Codes** select the reason you want reported for the period you remain in the busy not available state. To exit busy not available status use the control to select ***Available***.

3.5.5 Enable/Disable Membership

- The hunt group queues of which an agent is a member are configured by the IP Office telephone system maintainer. They cannot be changed by the agent or supervisor. However an agent's membership of a hunt group queue can be disabled.
  - When an agent's membership of a queue is disabled, the agent's state for that queue will be reported as ***Present*** when it would otherwise have been ***Available***.
  - On many Avaya display telephones, a **G** on the display indicates that the user currently has their membership of at least one group enabled.

- **Programmable Button** 343
  Most Avaya feature telephones supported by IP Office have programmable buttons 343. The IP Office system maintainer can program each of these buttons with features for use by the telephone's user.
  - A **Hunt Group Enable** button, depending on how it is configured, can be used to enable/disable an agent's membership of a particular group or all groups to which of which they are a member. The button indicates the current state of the membership.

- **Phone Menu Controls**
  On many newer Avaya telephones (1400, 1600, 9500 and 9600 Series), the telephone menu can be used to change various hunt group settings, including enabling or disabling membership. The selection of which functions and hunt groups is controlled by the telephone system administrator.

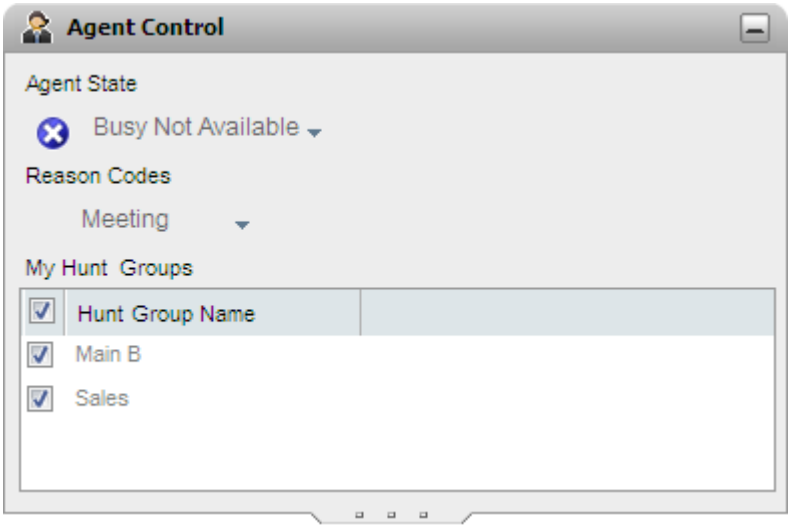
- **Dialing Short Code** 345
  The IP Office telephone system maintainer can set up dialing short codes 345 that support special features to be accessed by dialing the short code number.
  - Short codes using the **Hunt Group Enable** function can be used to enable the agent's membership of the queues to which they belong.
  - Short codes using the **Hunt Group Disable** function can be used to enable the agent's membership of the queues to which they belong.

- **one-X Portal for IP Office Queue Membership Control**
  Select the Agent Control gadget and select/deselect the queues for which you want to enable/disable your queue membership. Note that the administrator can restrict for which queues you can change your membership state.

3.5.6 one-X Portal for IP Office Controls

If you are also a IP Office Customer Call Reporter agent, this gadget is displayed in the one-X Portal for IP Office. You can use it to see your current agent state and to change that state. You can also use it to change your membership status in the various IP Office Customer Call Reporter queues to which you belong.

The changes you make using the gadget, such as the time you spend in each agent state, will be included in the reports generated by the IP Office Customer Call Reporter. They can be seen by your IP Office Customer Call Reporter supervisor and can in some cases be overridden by the supervisor.



Changing Your Agent State

The agent state shown is controlled both by you and by the telephone system. For example, after each call, your state can automatically change to ***After Call Work*** for a short period and then automatically change back to ***Available***. However, you can also change it when want. For example, when you have finished your after call work, you can manually change the state back to ***Available***.

- ***Available***
  In this state you are available to receive and answer queue calls when you are not already on a call. Note that this is different from the available presence status used by the one-X Portal for IP Office itself.
- ***After Call Work***
  Use this state after queue calls to perform actions such as completing call records. It is meant to be a temporary state and is automatically canceled by the telephone system after a time set by the system administrator.
- ***Busy Not Available***
  Select this state to remain logged in but stop receiving queue calls. You will be prompted to select a **Reason Code** for being in the Busy Not Available state from the set of codes available on the telephone system.

Your Queues

The **My Hunt Groups** section displays the IP Office Customer Call Reporter queues of which you have been configured as a member. You can use the list to enable or disable your current membership. You only receive calls for queues for which your membership is currently enabled.

Note that the telephone system administrator is able to configure for which queues you can change your membership state. For some of the queues list the settings shown my be for information only for you. Disabling your membership of all your queues is reported in IP Office Customer Call Reporter as a special state called ***Present***.

The telephone system administrator can use the checkbox at the top of the list to enabled/disable your membership for all queues for which you are allowed to change your membership.

- **one-X Portal for IP Office Login**
  When you log in to one-X Portal for IP Office, you can use the **Login to phone** options on the one-X Portal for IP Office login menu to specify at which telephone you want to login, if you are not already logged in.
- **one-X Portal for IP Office Logout**
  For IP Office Customer Call Reporter agents, when you log out of one-X Portal for IP Office you are also automatically logged out of the telephone you were using.
- **one-X Portal for IP Office After Call Work**
  Using the **Agent Control** gadget, under **Agent State** select ***After Call Work***. The system can be configured to do this automatically after each queue call. To exit after call work status use the control to select ***Available***.
- **one-X Portal for IP Office Busy Not Available**
  Using the **Agent Control** gadget, under **Agent State** select ***Busy Not Available***. Under **Reason Codes** select the reason you want reported for the period you remain in the busy not available state. To exit busy not available status use the control to select ***Available***.

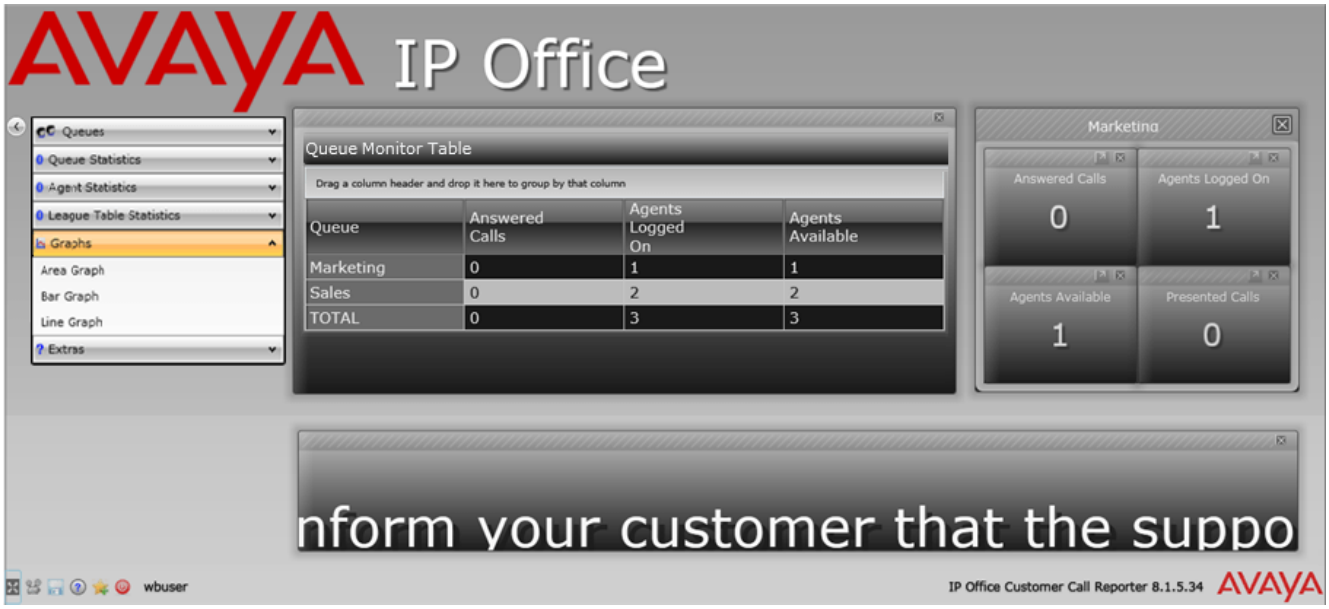
- **one-X Portal for IP Office Queue Membership Control**
  Select the Agent Control gadget and select/deselect the queues for which you want to enable/disable your queue membership. Note that the administrator can restrict for which queues you can change your membership state.

Chapter 4. Wallboard

4. Wallboard

The IP Office Customer Call Reporter administrator can create wallboard accounts. When logged in with one of these accounts, the browser can be used to display queue statistics for any queues plus other information such as messages sent or scheduled by IP Office Customer Call Reporter supervisors.

IP Office Customer Call Reporter supports up to 30 wallboards. However the maximum number of wallboards that can be logged in at any time is controlled by the number of available Supervisor licenses (each license enables a simultaneous Supervisor login and Wallboard login).



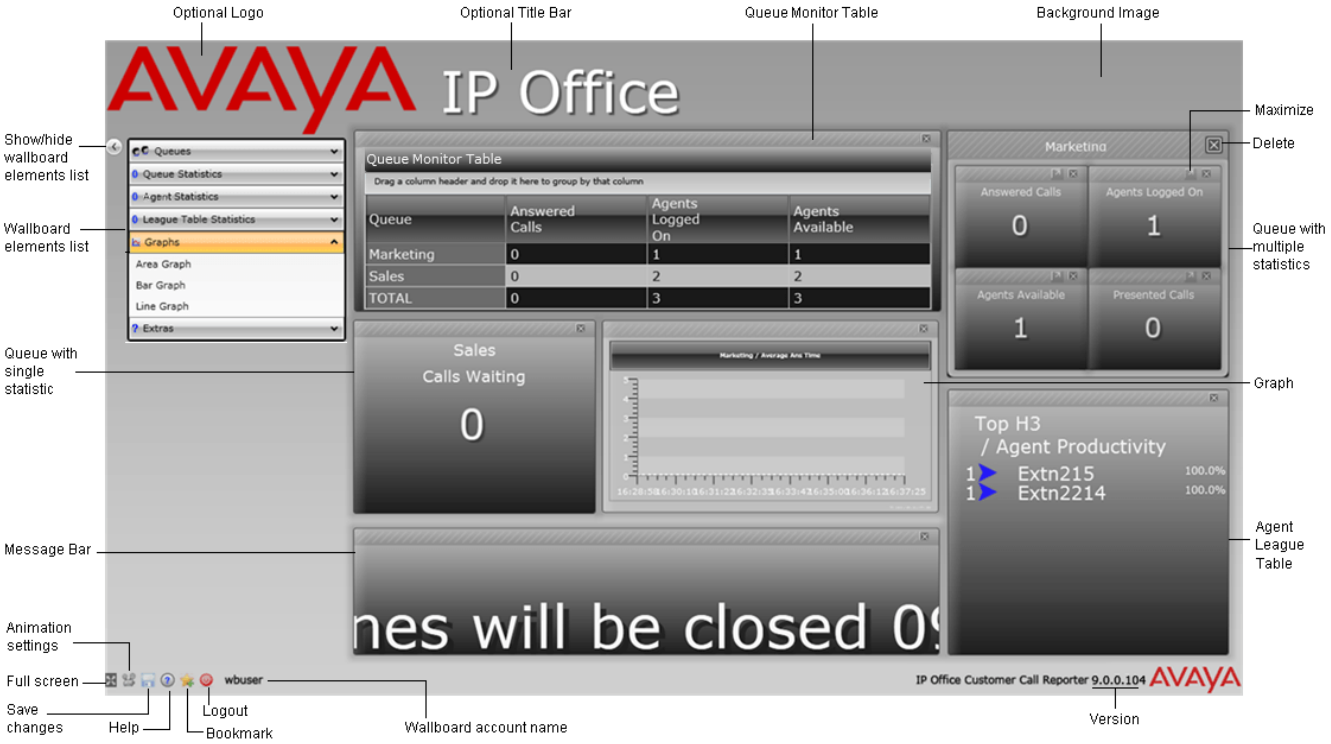
Example web client when logged in as a wallboard.

Use a Wallboard Account		
• Create a Wallboard Account 149 • Log in to a Wallboard 151 • Edit a Wallboard 152 • Add a League Table 157	• Add a Graph 158 • Add a Logo 153 • Add a message bar 156 • Add a Title Bar 154	• Add a monitor table 160 • Create bookmark for a Wallboard 175 • Log out of a Wallboard 176

- **Microsoft Silverlight**
  The IP Office Customer Call Reporter wallboard and customer map functions use Silverlight. When logging in at a computer without Silverlight installed, if the computer has access to the internet, you will be prompted to install Silverlight. If the computer does not have access to the internet, Silverlight must be installed manually. Full details of Silverlight and the browsers on which it is supported can be obtained at http://www.microsoft.com/silverlight.
  - **Chrome and Silverlight**
    To use Silverlight with Google Chrome additional options need to be enabled in the Chrome browser. If not enabled, Silverlight prompts for installation each time the browser is used. See Enabling Silverlight in Chrome 334.
  - For the display features to operate smoothly, especially when a large number of rapidly changing statistics are being displayed, use a dedicated graphics card in your computer rather than an integrated graphics card provided on the motherboard. The required minimum specification is a DirectX 9.0c or above compatible graphics card for GPU hardware acceleration via DirectDraw with 1GB or greater video memory. Support for 60Hz or greater refresh rate at the chosen resolution, for both card and monitor.

4.1 Wallboard Elements and Controls

The wallboard display is edited directly through the browser to add or remove the elements required.



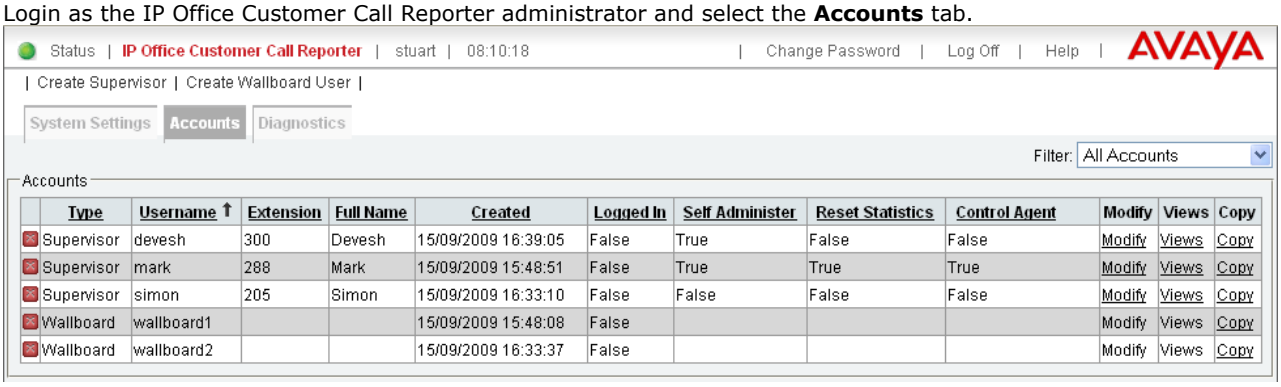
Each wallboard can contain the following different types of elements:

- **Logo** 153
  You can display a logo image at the top of the wallboard.
- **Title** 154
  You can display a title at the top of the wallboard.
- **Queue Statistics** 155
  Statistics for any IP Office Customer Call Reporter queues can be added to a wallboard. These can be grouped in sets or added individually. Individual warning and alarm settings can be applied to each statistic added.
- **Message Bar** 156
  Message bars can be added to scroll messages across the wallboard display. The messages are scheduled 127 and sent to the wallboard by IP Office Customer Call Reporter supervisors.
- **League Table** 157
  League tables of the top and bottom performing agents in a queue can be added to the wallboard.
- **Graphs** 158
  Selected queue statistics can be displayed in graphs.
- **Queue Monitor Table** 160
  You can add a queue monitor table to the wallboard to monitor the real time statistics of the queues.
- **Agent Monitor Table** 164
  You can add an agent monitor table to the wallboard to monitor the real time statistics of the agents.
- **Background Image** 167
  The image shown in the wallboard background can be customized.

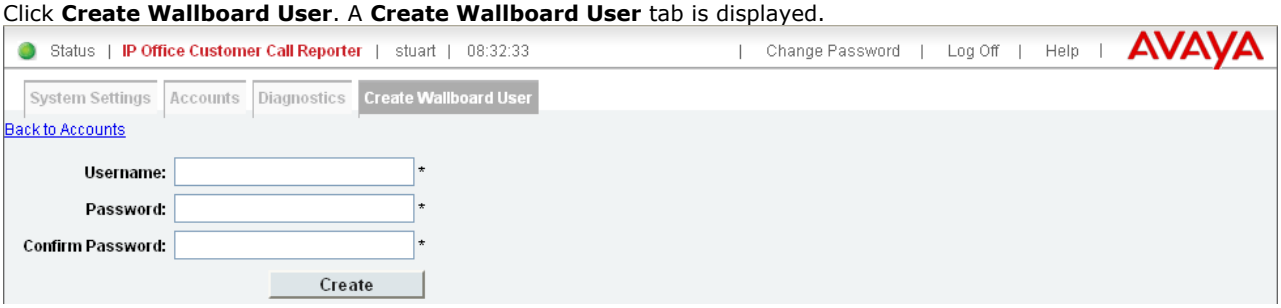
4.2 Creating Wallboard Accounts

To create a wallboard account you must login as the IP Office Customer Call Reporter administrator 189.

1. Login as the IP Office Customer Call Reporter administrator and select the **Accounts** tab.



2. Click **Create Wallboard User**. A **Create Wallboard User** tab is displayed.

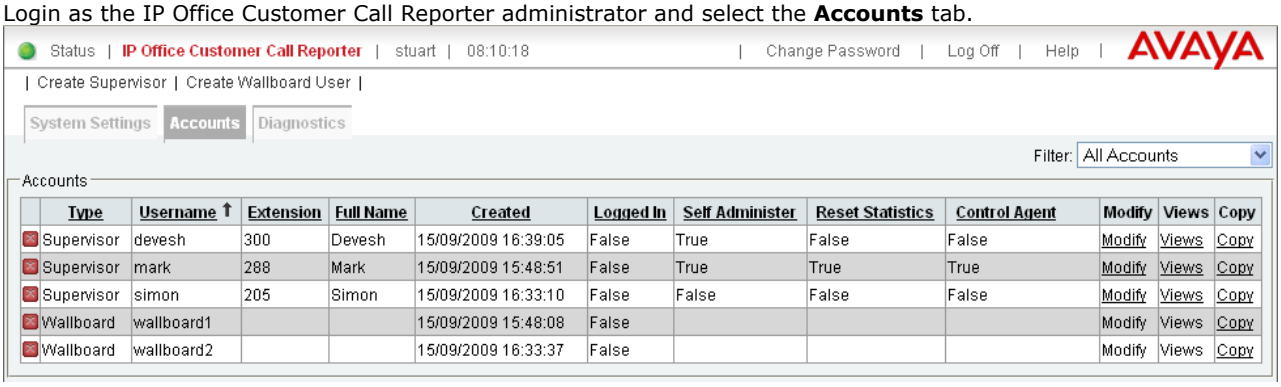


3. Enter the details for the account and click **Create**. Note that * indicates a mandatory field that must be completed.
4. Log off and then login using the wallboard account 151 details to verify account operation.
5. Once logged in using the wallboard account you can edit the wallboard view 152.

4.3 Changing a Wallboard Account

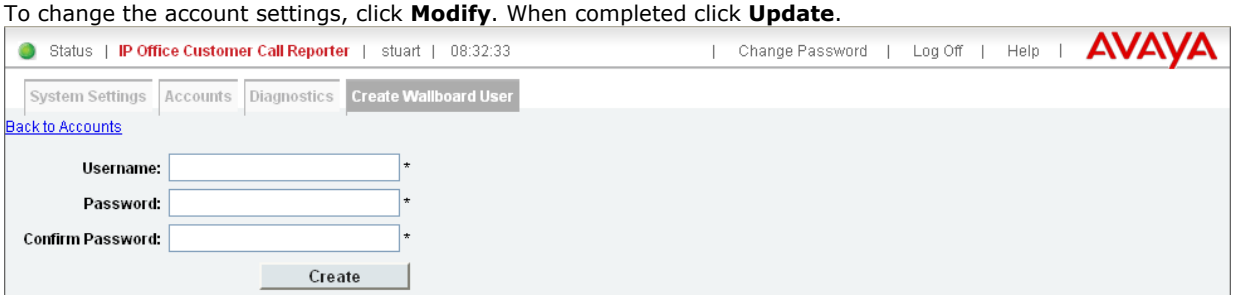
To edit a wallboard account you must login as the IP Office Customer Call Reporter administrator 189.

1. Login as the IP Office Customer Call Reporter administrator and select the **Accounts** tab.



Type	Username	Extension	Full Name	Created	Logged In	Self Administer	Reset Statistics	Control Agent	Modify	Views	Copy
Supervisor	devesh	300	Devesh	15/09/2009 16:39:05	False	True	False	False	Modify	Views	Copy
Supervisor	mark	288	Mark	15/09/2009 15:48:51	False	True	True	True	Modify	Views	Copy
Supervisor	simon	205	Simon	15/09/2009 16:33:10	False	False	False	False	Modify	Views	Copy
Wallboard	wallboard1			15/09/2009 15:48:08	False				Modify	Views	Copy
Wallboard	wallboard2			15/09/2009 16:33:37	False				Modify	Views	Copy

- To delete an account click the icon on the left of the account name.
- To change the account settings, click **Modify**. When completed click **Update**.



4.4 Logging In

An IP Office Customer Call Reporter wallboard account is accessed by web browser in the same way as other IP Office Customer Call Reporter roles.

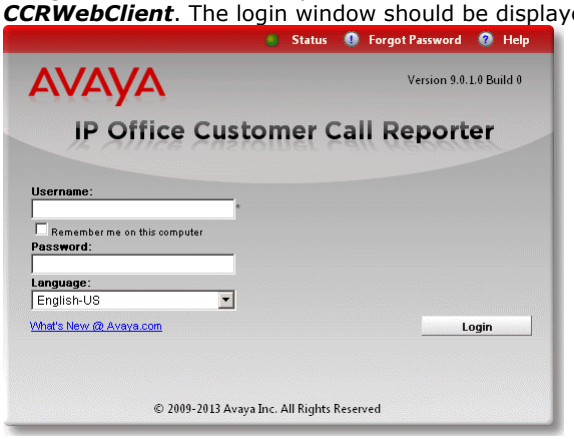
Computer/Browser Requirements

In addition to the normal IP Office Customer Call Reporter browser and computer requirements 15, the following apply for accessing an IP Office Customer Call Reporter wallboard.

- **Microsoft Silverlight**
  The IP Office Customer Call Reporter wallboard and customer map functions use Silverlight. When logging in at a computer without Silverlight installed, if the computer has access to the internet, you will be prompted to install Silverlight. If the computer does not have access to the internet, Silverlight must be installed manually. Full details of Silverlight and the browsers on which it is supported can be obtained at http://www.microsoft.com/silverlight.
  - **Chrome and Silverlight**
    To use Silverlight with Google Chrome additional options need to be enabled in the Chrome browser. If not enabled, Silverlight prompts for installation each time the browser is used. See Enabling Silverlight in Chrome 334.
  - For the display features to operate smoothly, especially when a large number of rapidly changing statistics are being displayed, use a dedicated graphics card in your computer rather than an integrated graphics card provided on the motherboard. The required minimum specification is a DirectX 9.0c or above compatible graphics card for GPU hardware acceleration via DirectDraw with 1GB or greater video memory. Support for 60Hz or greater refresh rate at the chosen resolution, for both card and monitor.
- Before running a wallboard on a computer, switch off the computer's screen saver and any monitor power saving modes.
- Unlike other IP Office Customer Call Reporter login accounts, a wallboard login does not automatically expire after the **Session Expiration Minutes** set by the IP Office Customer Call Reporter administrator.

Logging In to a Wallboard

1. Using a browser, enter the path to the IP Office Customer Call Reporter web service - ***http://<server_path>/CCRWebClient***. The login window should be displayed.



2. Enter the **Username** and **Password** for a wallboard account.
3. If you want the IP Office Customer Call Reporter web client to run in a different language, you can use the **Language** drop down to select a language from the list.

   Supported languages are ***Dutch***, ***English (UK)***, ***English (US)***, ***French***, ***German***, ***Italian***, ***Brazilian Portuguese***, ***Russian***, and ***Latin Spanish***. Some parts of customer call maps are third party components delivered over the internet and may run in different languages, for example, the zoom and pan controls.
4. Click **Login**.

4.5 Editing a Wallboard View

Use  at the top left of a wallboard to show or hide the list of items that you can add to the wallboard.

Adding Elements to a Wallboard

1. Log in using the wallboard account.
2. Click  at the top left of the wallboard to display the list of items that can be added to the wallboard.
3. Click and drag the items required to the view area. If the wallboard is in automatic layout mode 168, the system repositions and resizes the existing items automatically as the new items are added.

- **Logo** 153
  You can display a logo image at the top of the wallboard.
- **Title** 154
  You can display a title at the top of the wallboard.
- **Queue Statistics** 155
  Statistics for any IP Office Customer Call Reporter queues can be added to a wallboard. These can be grouped in sets or added individually. Individual warning and alarm settings can be applied to each statistic added.
- **Message Bar** 156
  Message bars can be added to scroll messages across the wallboard display. The messages are scheduled 127 and sent to the wallboard by IP Office Customer Call Reporter supervisors.
- **League Table** 157
  League tables of the top and bottom performing agents in a queue can be added to the wallboard.
- **Graphs** 158
  Selected queue statistics can be displayed in graphs.
- **Queue Monitor Table** 160
  You can add a queue monitor table to the wallboard to monitor the real time statistics of the queues.
- **Agent Monitor Table** 164
  You can add an agent monitor table to the wallboard to monitor the real time statistics of the agents.

4. To hide the list of items, click .
5. To save the wallboard, click  at the bottom left of the wallboard.

Editing Settings

1. Click an area or an element of the wallboard that you want to edit. On the pop-up menu that is displayed, click **Settings** to edit the required settings.
2. To hide the settings, close the settings menu by clicking the  icon.
3. Click the  icon to save the wallboard settings.

Deleting Elements from a Wallboard

To delete an element from the wallboard click the **X** icon at its top-right. For some elements the X icon is not shown until you first click the element.

4.6 Adding and Editing the Logo

You can add a logo image to the top right of the wallboard. If the wallboard includes a title, the logo and title are positioned adjacent to each other across the top of the wallboard.

Adding the Logo to the Wallboard

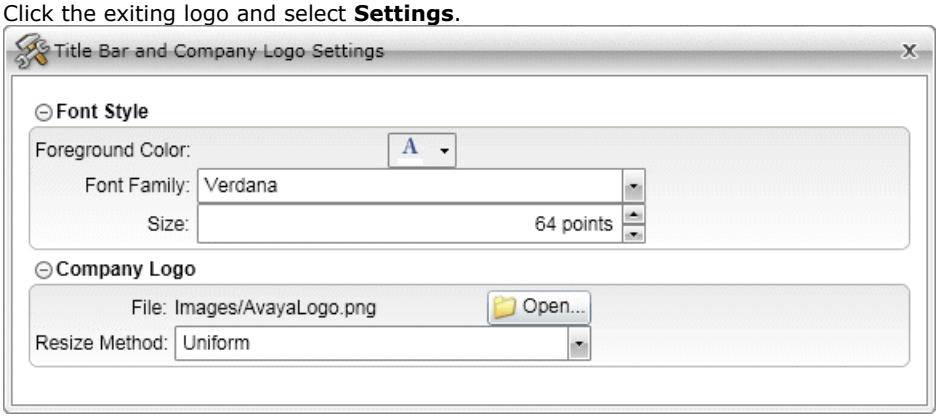
Each wallboard can include only one title bar. The title bar is always positioned above any other elements added to the wallboard and to the right of the logo if also added.

1. Click the icon near the top left to display the list of items that can be added to a wallboard.
2. Click **Extras** to display the list of items which includes the **Company Logo** element.
3. Click and drag the **Company Logo** element to the display area.
4. To hide the list of items again click the icon.
5. To save the wallboard settings click the icon at the bottom left of the wallboard.

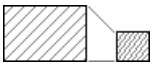
Editing the Logo Image Settings

You can change the image used for the logo and how it is resized when the wallboard size is changed.

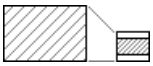
1. Click the exiting logo and select **Settings**.



- In the **Company Logo** section:
  - To load an image file click **Open** and browse to the image that you want to use. The selected file is copied from its location to the IP Office Customer Call Reporter server.
  - To change how the image is resized when the wallboard is resized select the required **Resize Method**.



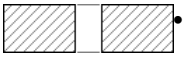
- **Fill**
  If this method is selected, the image size is change so that both its height and width fit the space provided for it on the wallboard. This means that the image's original ratio between height and width is not maintained but the image fits the full display area.



- **Uniform**
  If this method is selected, the image size is changed, maintaining its original ratio between height and width, until both fit within the space provided for it on the wallboard. This method means that some blank space is left along either the horizontal or vertical edges.



- **Uniform Fill**
  If this method is selected, the image size is changed, maintaining its original ratio between height and width, until one of them fits the space provided for it on the wallboard. This means that some part of the image (at the bottom or the right) is cropped.



- **Fixed**
  If this method is selected, the image size is not changed. Instead the display area provided for it on the wallboard is changed.

2. To hide the settings, close the settings menu by clicking the icon.
3. Click the icon to save the wallboard settings.

Removing the Logo

1. Click the existing logo image. It will become outlined by a box. Click the **X** icon at the top-right of the outline.
2. Click the icon to save the wallboard settings.

4.7 Adding and Editing the Title Bar

A title can be added to the top of the wallboard. You can then adjust the font style, size, and color used for the title. If the wallboard includes a logo, the logo and title are positioned adjacent to each other across the top of the wallboard.

Tip

- The title bars height is determined automatically, based partially on the selected font size. There is a point at which reducing the font size will have no further effect on the title bar height. At this point, there is no need to use a smaller font.

Adding the Title to the Wallboard

Each wallboard can include only one title bar. The title bar is always positioned above any other elements added to the wallboard and to the right of the logo if also added.

1. Click the icon near the top left to display the list of items that can be added to a wallboard.
2. Click **Extras** to display the list of items which includes the **Title Bar** element.
3. Click and drag the **Title Bar** element to the display area.
4. To hide the list of items again click the icon.
5. To save the wallboard settings click the icon at the bottom left of the wallboard.

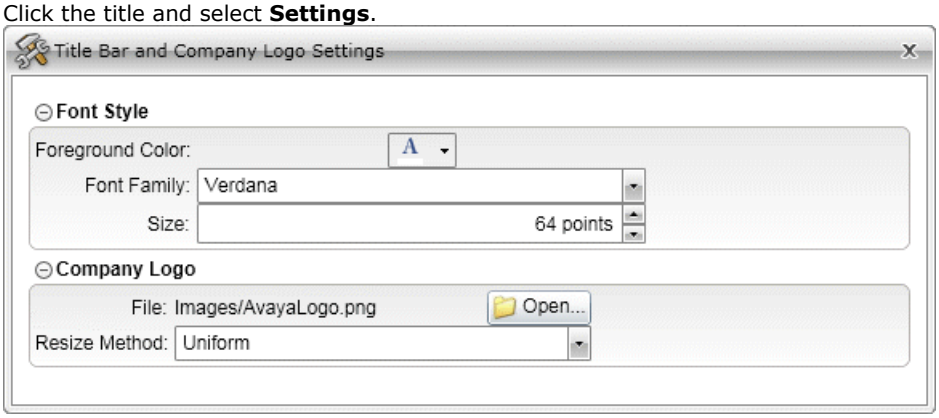
Editing the Wallboard Title

1. Click the existing title area. It will become outlined by a box.
2. Click the existing text to display a cursor. Edit or enter the title text required.
3. Click elsewhere on the wallboard.
4. To save the wallboard settings click the icon at the bottom left of the wallboard.

Editing the Title Bar Settings

You can adjust the speed and direction of scrolling applied to the messages that the wallboard displays. You can also select the font and limit the font sizes.

1. Click the title and select **Settings**.



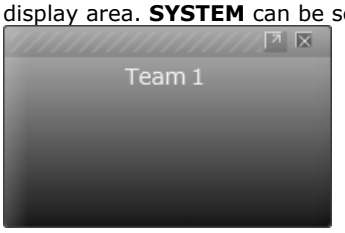
   - In the **Font Style** section, select the font, font color, and font size. The size of the title is automatically adjusted to fit the wallboard.
     - The fonts available for use are restricted to those widely supported by web browsers. These are: ***Arial***, ***Arial Black***, ***Comic Sans MS***, ***Courier New***, ***Lucida Grande***, ***Times New Roman***, ***Trebuchet MS***, and ***Verdana***.
2. To hide the settings, close the settings menu by clicking the icon.
3. Click the icon to save the wallboard settings.

Removing the Title Bar

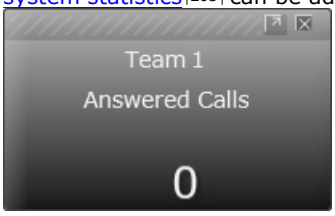
1. Click the existing title. It will become outlined by a box. Click the **X** icon at the top-right of the outline.
2. Click the icon to save the wallboard settings.

4.8 Adding Queues and Queue Statistics

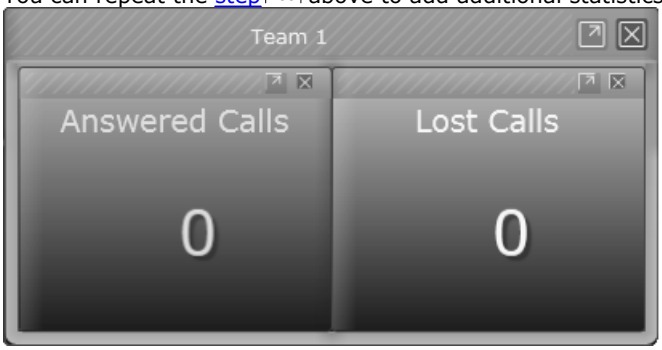
1. Click the icon near the top left to display the list of items that can be added to a wallboard.
2. Click **Queues** to display a list of the available queues. Click and drag the required queue over to the wallboard display area. **SYSTEM** can be selected to display combined statistic values for all queues and agents.



3. Click **Queue Statistics** to display a list of available statistics. Click and drag the required statistic over onto the queue container. If the **SYSTEM** queue was added to the wallboard, only those statistics that are supported as system statistics 208 can be added.



4. You can repeat the step 155 above to add additional statistics to the queue container.



5. Alternatively you can repeat step 2 155 and step 3 155 to add multiple queue containers each with a single statistic.



6. To hide the list of items again click the icon.
7. To save the wallboard settings click the icon at the bottom left of the wallboard.

Comments on this document? infodev@avaya.com

4.9 Adding and Editing a Message Bar

If a wallboard includes a message bar, IP Office Customer Call Reporter supervisors can send messages to the wallboard or schedule messages to be sent to the wallboard in the future. For details on sending messages to a wallboard, see Scheduling Wallboard Messages 127.

Tip

- The message bar is always as wide as the width of the entire queues shown on the wallboard. If only one or two queues are needed, the message bar will be more useful if the queues and their stats are added as rows.

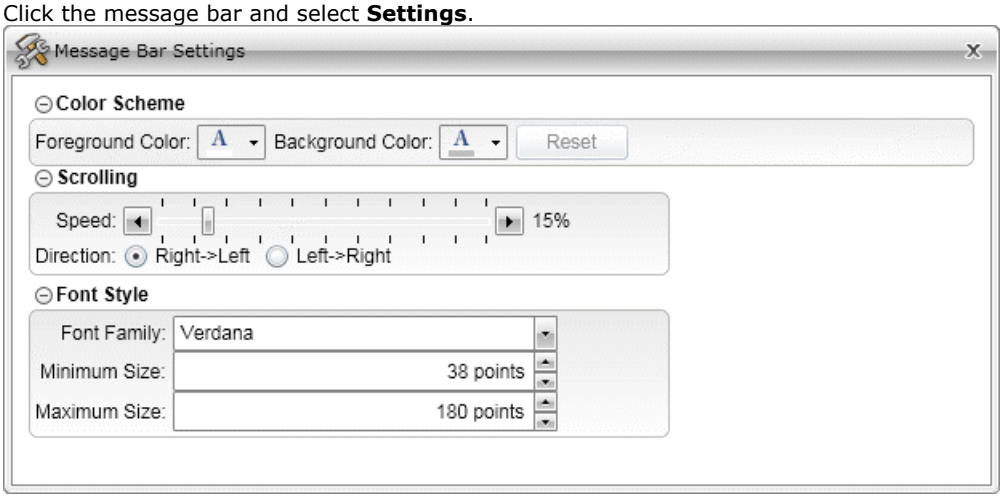
Adding the Message Bar to the Wallboard

1. Click the icon near the top left to display the list of items that can be added to a wallboard.
2. Click **Extras** to display the list of items which includes the **Message Bar** element.
3. Click and drag the **Message Bar** element to the display area.
4. To hide the list of items again click the icon.
5. To save the wallboard settings click the icon at the bottom left of the wallboard.

Editing the Message Bar Settings

You can adjust the speed and direction of scrolling applied to the messages that the wallboard displays. You can also select the font and limit the font sizes.

1. Click the message bar and select **Settings**.



- In the **Color Scheme** section, if available, select the foreground color and the background color. If you want to reset the color scheme to the general color settings 168, click **Reset**.
  Note: The **Color Scheme** section is available only if you enable custom color scheme 169.
  - In the **Scrolling** section select the direction of scrolling required and use the slider to adjust the speed.
  - In the **Font Style** section select the font to use and the size limits. The size of the message bar is automatically adjusted to fit the wallboard and the font size within the message bar is also automatically adjusted unless it reaches one of the limits set here.
    - The fonts available for use are restricted to those widely supported by web browsers. These are: ***Arial***, ***Arial Black***, ***Comic Sans MS***, ***Courier New***, ***Lucida Grande***, ***Times New Roman***, ***Trebuchet MS***, and ***Verdana***.

2. To hide the settings, close the settings menu by clicking the icon.
3. Click the icon to save the wallboard settings.

4.10 Adding and Editing a League Table

For a selected queue, the performance of the agents in that queue against a selected agent statistic can be displayed as a league table. Either the top, the bottom or a combination of the top and bottom performers can be displayed. The actual number of agents included in the display varies depending on the wallboard display area available.

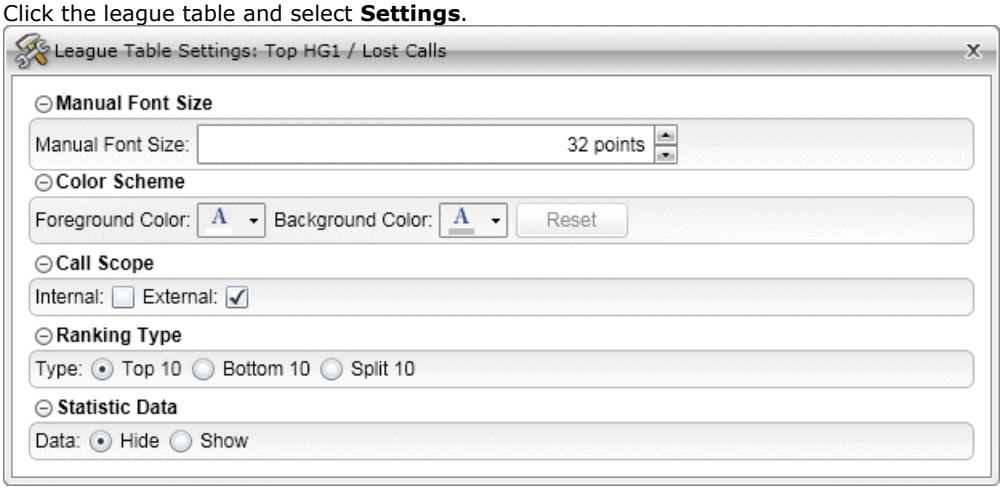
Adding the League Table to the Wallboard

1. Click the icon near the top left to display the list of items that can be added to a wallboard.
2. Click **League Table Statistics** to display the list of agent statistics that can be used in a league table. Click and drag the required statistic to the wallboard display area. A box for the league table will be added to the display.
3. Click **Queues** to display the list of queues. Click and drag the queue whose agents you want show over onto the league table.
4. To hide the list of items again click the icon.
5. To save the wallboard settings click the icon at the bottom left of the wallboard.

Editing the League Table Settings

You can select whether the league table should display the top, bottom or a combination of the top and bottom performers in the queue.

1. Click the league table and select **Settings**.



- In the **Manual Font Size** section, if available, set the font size of the display text for the statistic. The nearest point size of the existing display text is the default setting.
  Note: The **Manual Font Size** section is available only if the manual layout mode 168 is enabled.
- In the **Color Scheme** section, if available, select the foreground color and the background color. If you want to reset the color scheme to the general color settings 168, click **Reset**.
  Note: The **Color Scheme** section is available only if you enable custom color scheme 169.
  - Depending on the agent statistic being tracked by the league table, the **Call Scope** section may be available. If it is available, use the settings to select what types of calls should be included in the statistic.
  - Use the **Ranking Type** section to select the type of league table.
    - **Top 10**
      Show the top 10 agents for the selected statistic. This is the default setting.
    - **Bottom 10**
      Show the bottom 10 agents for the selected statistic.
    - **Split 10**
      Show the top 5 and the bottom 5 agents for the selected statistic.
  - Use the **Statistic Data** section to select whether to display the respective statistic data for agents. The default setting is **Hide**.

2. To hide the settings, close the settings menu by clicking the icon.
3. Click the icon to save the wallboard settings.

4.11 Adding and Editing a Graph

Queue statistics can be displayed as graphs showing the statistic value changing over time. Each graph only shows one statistics for one queue, however you can add multiple graphs.

Adding a Graph

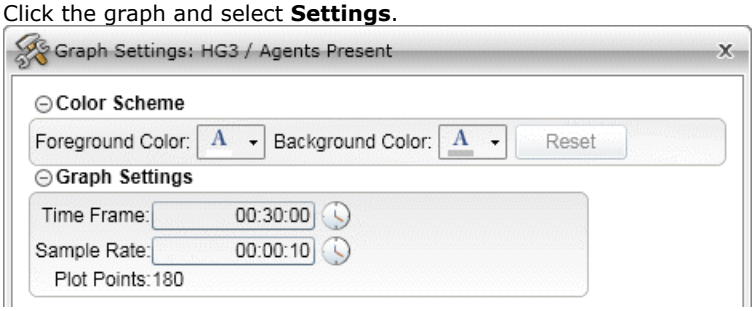
1. Click the  icon near the top left to display the list of items that can be added to a wallboard.
2. Click Graphs to display the list of the different types of graphs available. Current options are ***Area Graph***, ***Bar Graph*** and ***Line Graph***. Click and drag the required type of graph onto the wallboard display area.
3. Click **Queues** to display the list of queues. Click and drag the queue for which you want to plot a statistic onto the graph.
4. Click **Queue Statistics** to display the list of queue statistics. Click and drag the required statistic over onto the graph.
5. To hide the list of items again click the  icon.
6. To save the wallboard settings click the  icon at the bottom left of the wallboard.

Changing a Graphs Contents

1. Using the same method as for adding a graph, simply drag a different queue or queue statistic onto an existing graph to change its contents.

Editing the Graph Settings

1. Click the graph and select **Settings**.



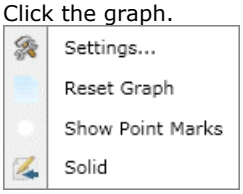
- In the **Color Scheme** section, if available, select the foreground color and the background color. If you want to reset the color scheme to the general color settings 168, click **Reset**.
  Note: The **Color Scheme** section is available only if you enable custom color scheme 169.
  - The **Time Frame** setting sets the maximum length of time (hours:minutes:seconds) that should be included in the graph as data is added.
  - The **Sample Rate** sets how often (hours:minutes:seconds) the graph should be updated.
  - The **Plot Points** value indicates how many points will be used to plot the complete graph using the two settings above. The maximum possible is 500 plot points or for bar graphs 30 bars. The range of selectable values for **Time Frame** and **Sample Rate** above will adjust according to the current value of the other and vice versa.

2. To hide the settings, close the settings menu by clicking the  icon.
3. Click the  icon to save the wallboard settings.

Resetting a Graph

The current data in a graph can be cleared without having to remove the graph or restart the wallboard.

1. Click the graph.

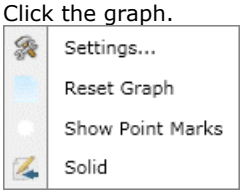


2. From the menu displayed select **Reset Graph**.

Show/Hide Plot Points

In addition to plotting a line or solid area, the individual data points can be shown on the graph or hidden.

1. Click the graph.



2. From the menu displayed select **Show Point Marks**. The option is ticked if it is currently enabled.

4.12 Adding and Editing a Queue Monitor Table

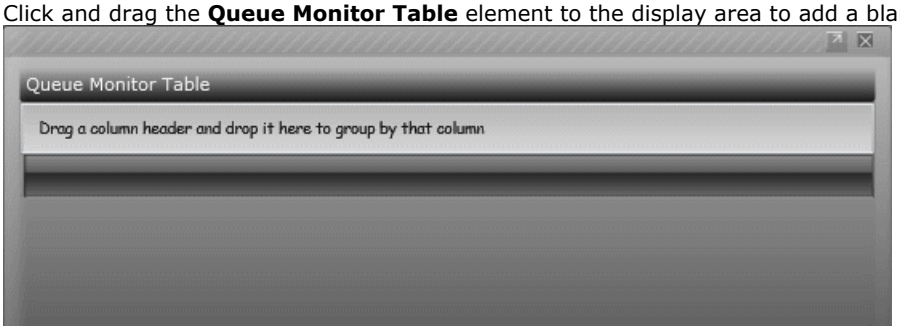
You can add a queue monitor table to wallboard to monitor real-time statistics of queues. The formatting of a queue monitor table is similar to that of a monitor 102. The system applies the background colors red, yellow, and green to indicate alarms, but does not apply the value transition effects to a queue monitor table. However, the queue monitor table cells on a wallboard do not support alarm cancellation or acknowledgement.

Tip

- You can drag and drop the columns in a queue monitor table to reorder them.
- You cannot reorder the rows in a queue monitor table. The system orders the rows according to their drop order in the table.
- You can sort the rows in a queue monitor table by clicking the column header. The system sorts the rows in the ascending or descending order of the values in the column.

Adding a Queue Monitor Table to a Wallboard

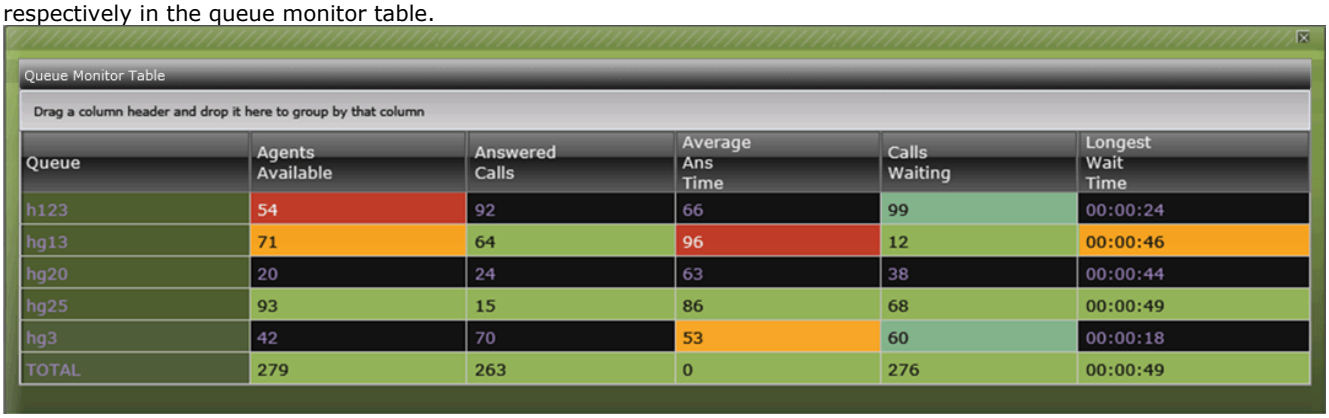
1. Click the icon near the top left to display the list of items that can be added to a wallboard.
2. Click **Extras** to display the list of items which includes the **Queue Monitor Table** element.
3. Click and drag the **Queue Monitor Table** element to the display area to add a blank queue monitor table.



4. Click **Queues** to display a list of the available queues. Click and drag the required queue over to the queue monitor table. You can also drag the **SYSTEM** queue to display the combined statistic values for all queues.
   Note: If at least one non-SYSTEM queue is added to a queue monitor table, the system adds a **TOTAL** row after the last non-SYSTEM queue. Also, note that the system displays the SYSTEM queue at the bottom of the grid.

- **TOTAL**
  The **TOTAL** row displays a summary of the statistics for the included queues. Alarms and warning settings are not applied to the **TOTAL** row.
  - For most statistics, the **TOTAL** value is a sum of the statistic values for the included queues.
  - For statistics that are averages, the **TOTAL** value is a weighted average 347 of the statistic values for the included queues. For the **Longest Wait Time** statistic, the **TOTAL** value is the statistic value of that queue (among the included queues) that has the longest wait time. For the **Current Wait Time** statistic, the **TOTAL** value is a mean of the current wait times of all the included queues.
  - For the queue statistics that are not supported as **TOTAL** values, the value is displayed as "**–**".

5. Click **Queue Statistics** to display a list of available statistics. Click and drag a required statistic onto the queue monitor table. If the **SYSTEM** queue is added to the wallboard, the values of the statistics that are not supported as system statistics 208 are displayed as "**-**".
6. You can repeat step 4 160 and step 5 161 to add multiple queues and queue statistics to the rows and columns respectively in the queue monitor table.



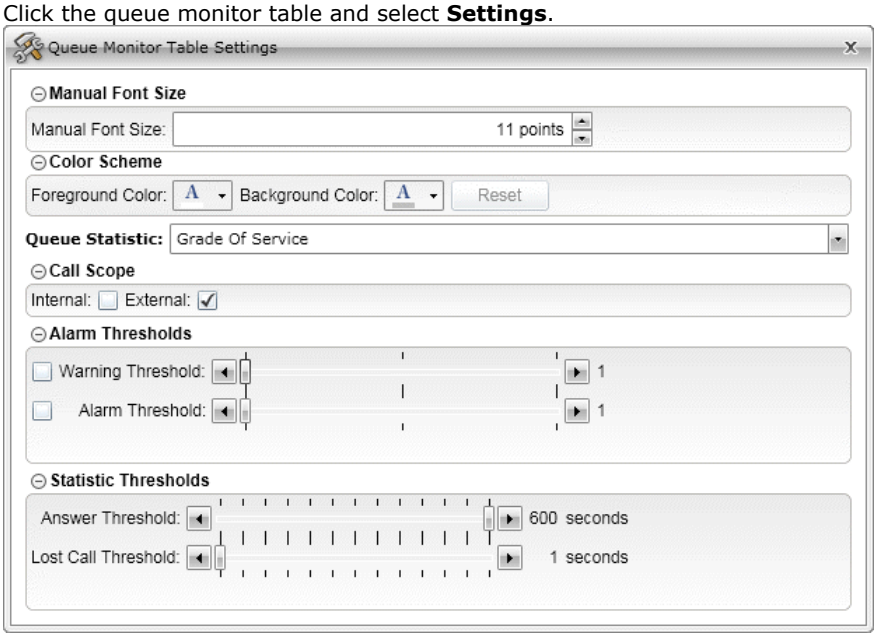
Queue	Agents Available	Answered Calls	Average Ans Time	Calls Waiting	Longest Wait Time
h123	54	92	66	99	00:00:24
hg13	71	64	96	12	00:00:46
hg20	20	24	63	38	00:00:44
hg25	93	15	86	68	00:00:49
hg3	42	70	53	60	00:00:18
TOTAL	279	263	0	276	00:00:49

Note: You can add a queue or a statistic only once.

7. To hide the list of items again, click the  icon.
8. To save the wallboard settings, click the  icon at the bottom left of the wallboard.

Editing the Queue Monitor Table Settings

1. Click the queue monitor table and select **Settings**.



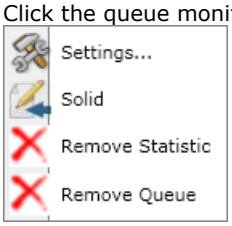
- In the **Manual Font Size** section, if available, set the font size of the display text for the statistic. The nearest point size of the existing display text is the default setting.
  Note: The **Manual Font Size** section is available only if the manual layout mode 168 is enabled.
- In the **Color Scheme** section, if available, select the foreground color and the background color. If you want to reset the color scheme to the general color settings 168, click **Reset**.
  Note: The **Color Scheme** section is available only if you enable custom color scheme 169.

- In the **Queue Statistic** drop-down list, select the statistic that you want to configure.
  Note: The options available in the sections described below will vary according to the type of the selected statistic. For details of the individual statistics, refer to the Statistics 206 section.
- In the **Call Scope** section, select the type of calls that should be included in the statistic.
- In the **Alarm Thresholds** section, select whether you want the statistic to include warnings and alarms. If selected, use the slider to adjust the threshold levels at which the warning or the alarm occurs.
  - Warnings are shown by the statistic background color changing to yellow.
  - Alarms are show by the statistic background color changing to red.
- In the **Statistic Thresholds** section, if available, set the thresholds for calls included in the statistic.
  Answer Threshold: *Default = 600 seconds, Range = 1 to 600 seconds.*
  Used for statistics calculated as a percentage of calls answered within the set time out of all calls presented. Sets the target time for calls to be answered from when they are first presented to the queue or agent. Note that for agents, calls are only presented for the queue's no answer time before being presented to the next agent. Note that this setting is shared between the **Agent Productivity** 210, **Average Answer %** 229 and **Grade of Service** 238 statistics in the same monitor or wallboard view.
  - **Lost Calls Threshold:** *Default = 1 second, Range = 1 to 600 seconds*.
    Lost calls are calls where the caller disconnects before the call is answered. This threshold sets the minimum time in seconds for a call to be available to be answered before it will be counted as lost. Lost calls are not included in the calculation of this statistic. Note that this setting is shared between the **Agent Productivity** 210 and **Grade of Service** 238 statistics in the same monitor or wallboard view.

2. To hide the settings, close the settings menu by clicking the  icon.
3. Click the  icon to save the wallboard settings.

Removing a Queue from a Queue Monitor Table

1. Click a cell in the queue row that you want to remove from the queue monitor table.
2. Click the queue monitor table.

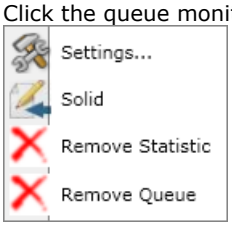


3. Click **Remove Queue**.

Note: You cannot remove the **TOTAL** row. The system removes the **TOTAL** row only if you remove all the non-SYSTEM queues included in the queue monitor table.

Removing a Statistic from a Queue Monitor Table

1. Click a cell in the statistic column that you want to remove from the queue monitor table.
2. Click the queue monitor table.



3. Click **Remove Statistic**.

4.13 Adding and Editing an Agent Monitor Table

You can add an agent monitor table to wallboard to monitor the agent states and the time elapsed since the last change in state. The formatting of an agent monitor table is similar to that of a monitor 102. If you enable custom color scheme 169, the system applies the background colors to indicate the agent states as follows:

Agent State	Color
Available	
Ringing	
Present	
Busy NA	
Holding	
ACW	
Logged Out	
Busy	
Busy Non-Q	
Ring Non-Q	

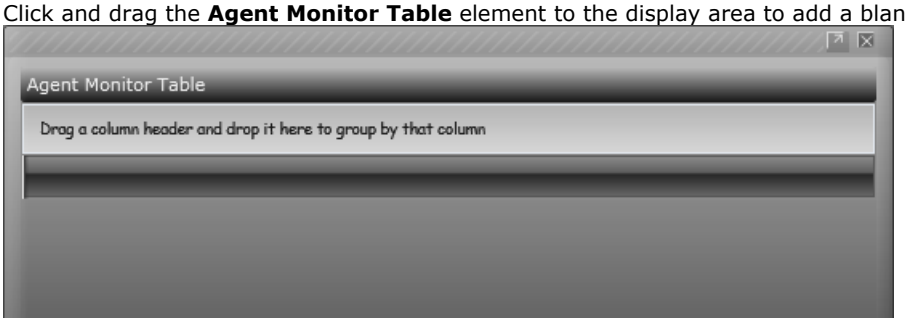
Tip

- You can drag and drop the columns in a queue monitor table to reorder them.
- You cannot reorder the rows in an agent monitor table. The system orders the rows according to their drop order in the table.

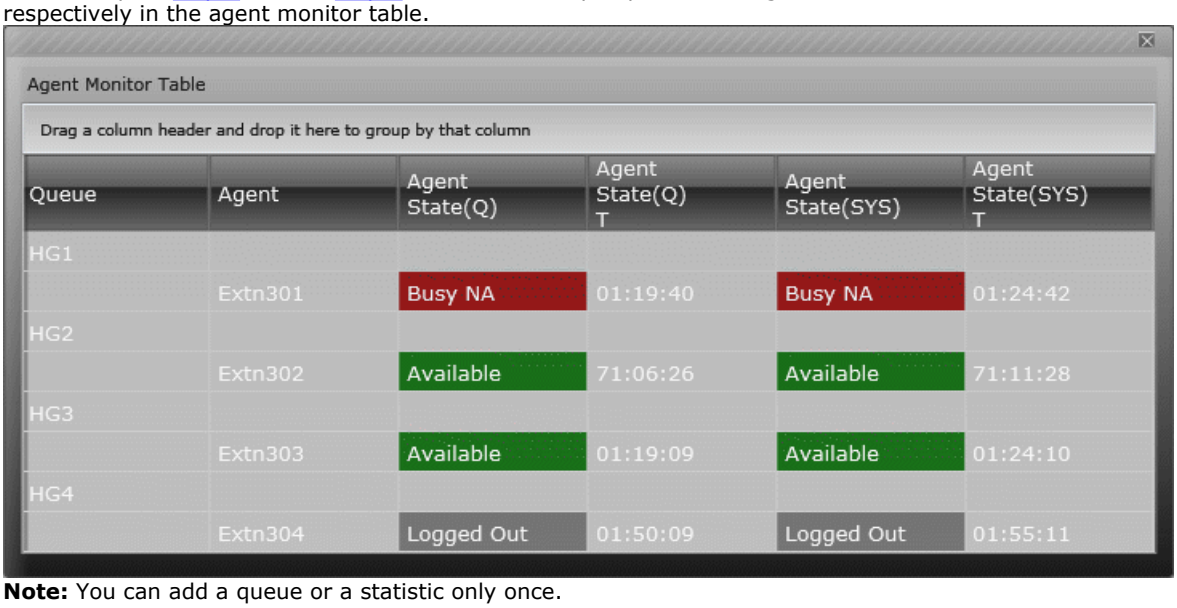
Adding an Agent Monitor Table to a Wallboard

1. Click the  icon near the top left to display the list of items that can be added to a wallboard.

2. Click **Extras** to display the list of items which includes the **Agent Monitor Table** element.
3. Click and drag the **Agent Monitor Table** element to the display area to add a blank agent monitor table.



4. Click **Queues** to display a list of the available queues. Click and drag the required queue over to the agent monitor table. You can also drag the **SYSTEM** queue to display the combined statistic values for all queues.
5. Click **Agent Statistics** to display a list of available statistics. Click and drag a required statistic onto the agent monitor table.
6. You can repeat step 4 160 and step 5 161 to add multiple queues and agent statistics to the rows and columns respectively in the agent monitor table.

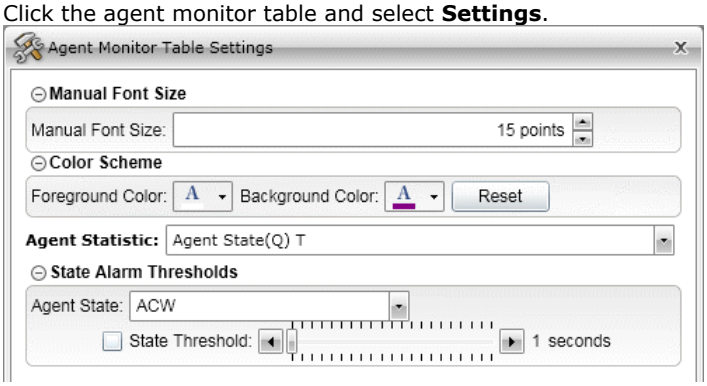


Note: You can add a queue or a statistic only once.

7. To hide the list of items again, click the  icon.
8. To save the wallboard settings, click the  icon at the bottom left of the wallboard.

Editing the Agent Monitor Table Settings

1. Click the agent monitor table and select **Settings**.

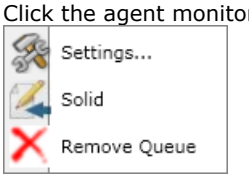


- In the **Manual Font Size** section, if available, set the font size of the display text for the statistic. The nearest point size of the existing display text is the default setting.
  Note: The **Manual Font Size** section is available only if the manual layout mode 168 is enabled.
- In the **Color Scheme** section, if available, select the foreground color and the background color. If you want to reset the color scheme to the general color settings 168, click **Reset**.
  Note: The **Color Scheme** section is available only if you enable custom color scheme 169.
- In the **Agent Statistic** drop-down list, select the statistic that you want to configure.
  Note: The options available in the sections described below will vary according to the type of the selected statistic. For details of the individual statistics, refer to the Statistics 206 section.
- In the **State Alarm Thresholds** section, if available, select whether you want an agent state to include alarm. If selected, use the slider to adjust the threshold levels at which the warning or the alarm occurs.
  - Alarms are shown by the statistic background color changing to red.
- In the **Statistic Thresholds** section, if available, set the thresholds for calls included in the statistic.

2. To hide the settings, close the settings menu by clicking the icon.
3. Click the icon to save the wallboard settings.

Removing a Queue from an Agent Monitor Table

1. Click a cell in the queue row that you want to remove from the agent monitor table.
2. Click the agent monitor table.



3. Click **Remove Queue**.

4.14 Editing Background Settings

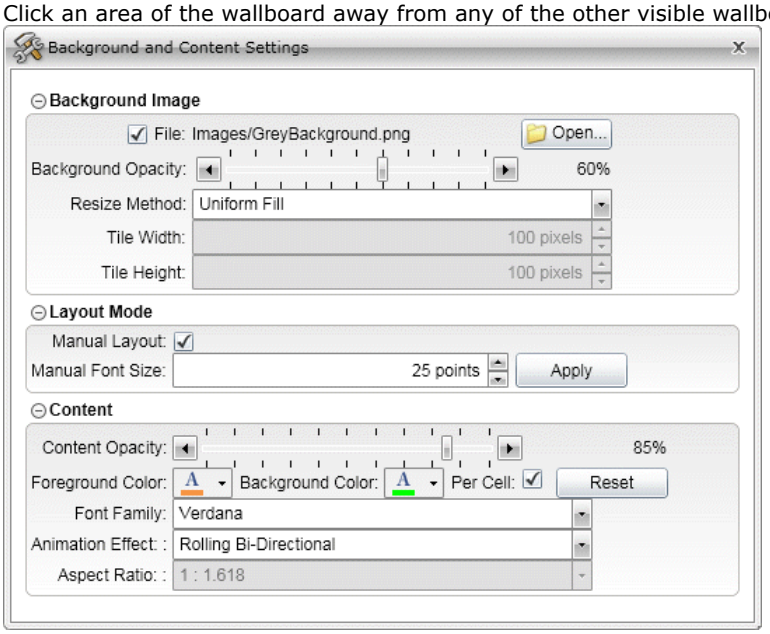
4.14.1 Editing Background Image

The background of the wallboard is an image file which can be replaced with a file of your choice.

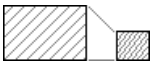
Tip

- The default uniform grey background does not distract from the information displayed. If you change the default background image, select an image that is not distracting.

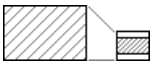
1. Click an area of the wallboard away from any of the other visible wallboard elements and then click **Settings**.



- The **Background Image** section contains the settings for the image file.
  - To load an image file click **Open** and browse to the image that you want to use. The selected file is copied from its location to the IP Office Customer Call Reporter server.
  - To change how the image is resized when the wallboard is resized select the required **Resize Method**.



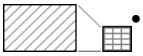
- **Fill**
  If this method is selected, the image size is change so that both its height and width fit the space provided for it on the wallboard. This means that the image's original ratio between height and width is not maintained but the image fits the full display area.



- **Uniform**
  If this method is selected, the image size is changed, maintaining its original ratio between height and width, until both fit within the space provided for it on the wallboard. This method means that some blank space is left along either the horizontal or vertical edges.



- **Uniform Fill**
  If this method is selected, the image size is changed, maintaining its original ratio between height and width, until one of them fits the space provided for it on the wallboard. This means that some part of the image (at the bottom or the right) is cropped.



- **Tiled**
  If this method is selected, the image is resized using the **Tile Width** and **Tile Height** settings. The space provided for the image on the wallboard is then filled with multiple copies of the image at that size.
  - Use the **Background Opacity** slider to change the transparency applied to the image.
  - To delete the existing image click the **X** icon. When there is no image loaded the general background of the wallboard is white.

2. To hide the settings, close the settings menu by clicking the  icon.
3. Click the  icon to save the wallboard settings.

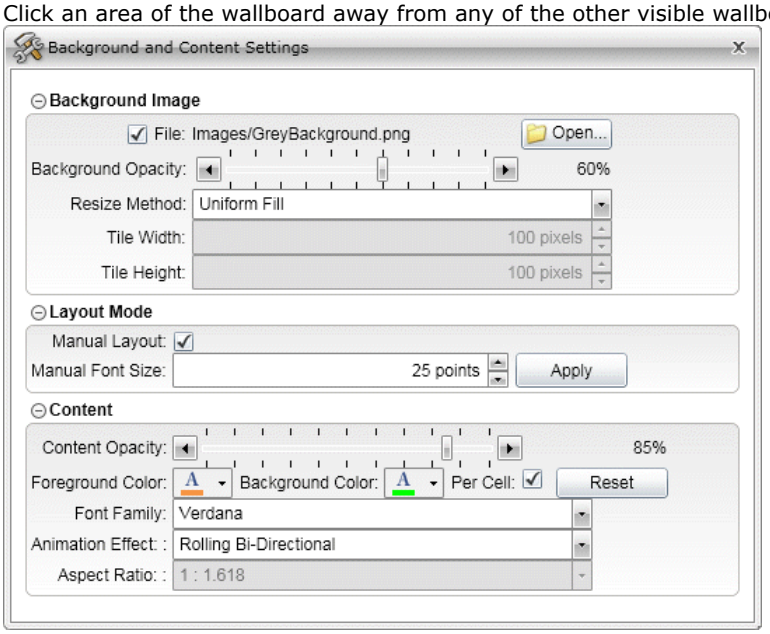
4.14.2 Editing Layout Mode

By default, the system designs the wallboard layout automatically, but you can opt to design the wallboard layout manually. In the manual layout mode, you can resize the wallboard cells, place the cells at the positions of your choice, and change the font size of the text displayed in the cells.

Tip

- If you switch to the manual layout mode, the background and content settings remain unchanged except for the Aspect Ratio 169 setting.
- Independent of the manual mode setting, statistic cells within a group cell remain in an automatic layout mode with each statistic cell occupying a position within the grid.
- In manual layout mode, the content is not resized when the browser frame size changes, for example, full screen mode. Also, the maximize option is not available for the wallboard cells except for the cells within a group.
- If you change to the automatic layout mode from the manual layout mode, the wallboard cells are arranged automatically.
- If you change to the manual layout mode from the automatic layout mode, the wallboard cells are placed in the manual position that they were in when the manual layout mode was last enabled. When you enable the manual layout mode for the first time, the wallboard cells remain in their default automatic position.

1. Click an area of the wallboard away from any of the other visible wallboard elements and then click **Settings**.



- The **Layout Mode** section contains the settings for designing the wallboard layout manually.
  - To enable the manual layout mode, check the **Manual Layout** checkbox.
  - To set the font size of the text displayed in the wallboard cells, enter or select a font size (in the range of 1-100) in **Manual Font Size**.
  - To apply the font size entered in **Manual Font Size** to the text displayed in all of the wallboard cells, click **Apply**.
    Note: The message cell and the graph cell are not affected by the **Manual Font Size** setting, as the message cell has independent minimum and maximum font size settings and the graph cell is not text-based.
  - To place a wallboard cell at a position of your choice on the wallboard, drag the wallboard cell using the striped grip bar at the top of the cell. You may place a wallboard cell to overlap with another wallboard cell. The overlapping wallboard cells are displayed in the front-to-back style according to the content opacity 169 defined for the cells.
  - To resize a wallboard cell, position the mouse pointer at the border of the cell and drag the border once the shape of the mouse pointer changes. You can resize a wallboard cell individually along any of the sides or simultaneously along any two of the sides forming a corner.

2. To hide the settings, close the settings menu by clicking the  icon.
3. Click the  icon to save the wallboard settings.

4.14.3 Editing General Colors and Font

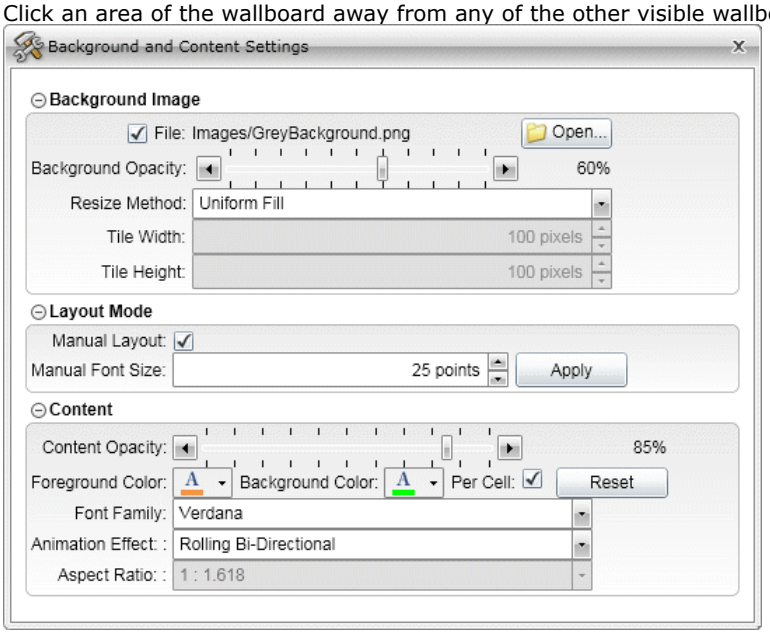
The background and font colors used for the elements added to the wallboard can be changed. The same colors are used for all elements added to the wallboard. The exception is the general background which uses an image file or is white 167 .

These settings are for the general font and colors used. Some wallboard elements, for example the title bar [154], have their own specific settings for fonts and colors that can be set to differ from the general settings.

Tip

- The choice of font and contrast colors between the foreground and background content are important. A fatter font and vivid color provide high visibility at distance. For example use Verdana, neon green (#FF00FF00) foreground and charcoal grey (#FF595959) background.
- Warnings and alarms cause statistics shown in the wallboard to turn orange or red respectively. So, use such colors for the background and foreground that the content can be red in case of a warning or an alarm.
- A high opacity, for example greater than 90% improves the readability of the wallboard. However a low value, for example 60%, makes it easier to see the highlighted element while editing a wallboard. Therefore it is useful to select a low opacity while editing and return it to a high value when finished.
- If the wallboard doesn't show an opacity change, save it and then refresh or restart the browser.

1. Click an area of the wallboard away from any of the other visible wallboard elements and then click **Settings**.

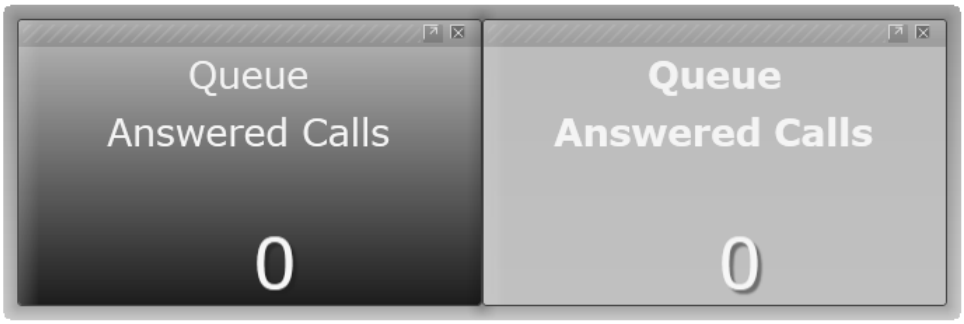


   - The **Content** section contains the general color and font settings for the wallboard elements:
     - Use the **Content Opacity** slider to change the transparency applied to the wallboard elements.
     - To change the font color, click the down arrow shown after **Foreground Color** and select the required color.
     - To change the background color used for the element shading, click the down arrow shown after **Background Color** and select the required color.
     - To enable the option to have custom color schemes for the different wallboard elements, check the **Per Cell** check box.
     - To reset the foreground color to the default white and background color to the default gray, click **Reset**
     - To change the font used for most wallboard elements, select a font in the **Font Family** drop down. The font size is adjusted automatically.
       - The fonts available for use are restricted to those widely supported by web browsers. These are: ***Arial***, ***Arial Black***, ***Comic Sans MS***, ***Courier New***, ***Lucida Grande***, ***Times New Roman***, ***Trebuchet MS***, and ***Verdana***.
     - The **Animation Effect** is applied to statistic values while they change. If no animation effect is required, select ***None***.
     - Use the **Aspect Ratio** setting to control the ratio between the height and width of the wallboard elements (excluding the logo and title bar which always occupy the top of the display).
       Note: The **Aspect Ratio** setting is disabled if the manual layout mode is enabled, that is, if the **Manual Layout** check box is checked.

2. To hide the settings, close the settings menu by clicking the icon.
3. Click the icon to save the wallboard settings.

4.14.4 Editing Background Style of Elements

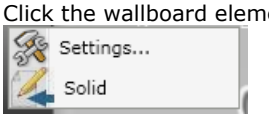
By default each element uses a shading style based on the background color selected above. This can be changed to a solid background if required.



Tip

- Depending on the colors selected for the content foreground and background, using a solid background instead of a shaded background may make it easier to read the data from a distance.

1. Click the wallboard element.



2. From the menu click **Solid** to change the setting between a solid or a shaded background. The option is ticked if it is currently enabled.

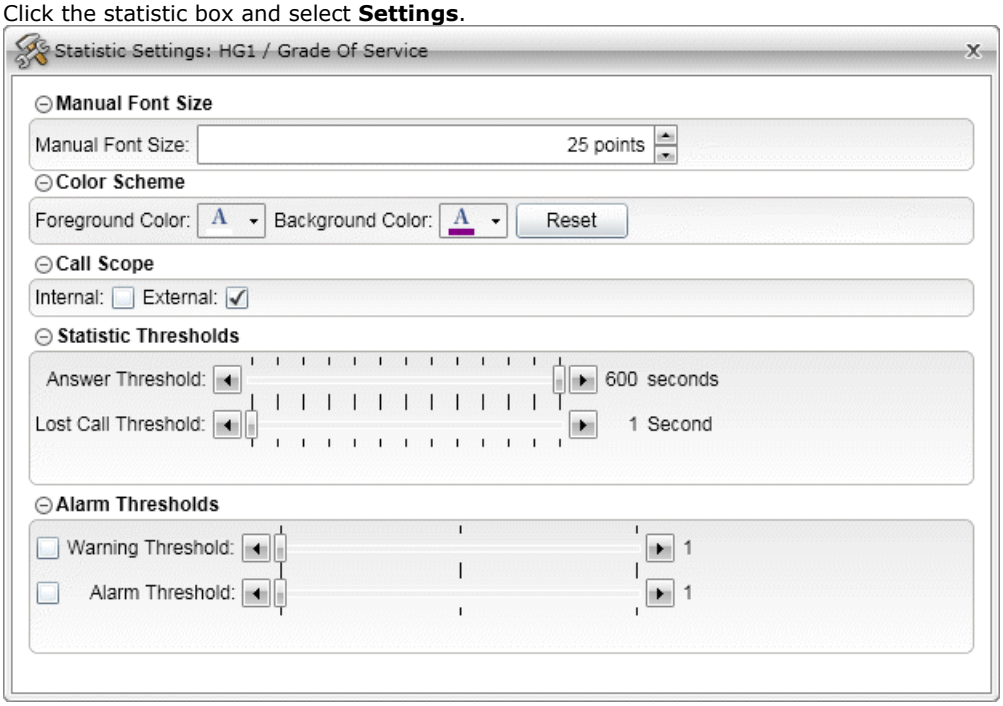
4.15 Editing Statistic Settings

For many of the statistics, you can select what types of calls should be included in the statistic. You can also set whether the statistic should indicate warnings or alarms when its value passes the thresholds that you set.

Alarms and warning settings are not applicable to ***SYSTEM*** statistic values.

Statistic Settings

1. Click the statistic box and select **Settings**.



   - The options available will vary according to the type of statistic. For details of the individual statistics refer to the Statistics 206 section. Some statistics have no settings in which case the menu will be blank.

- In the **Manual Font Size** section, if available, set the font size of the display text for the statistic. The nearest point size of the existing display text is the default setting.
  Note: The **Manual Font Size** section is available only if the manual layout mode 168 is enabled.
- In the **Color Scheme** section, if available, select the foreground color and the background color. If you want to reset the color scheme to the general color settings 168, click **Reset**.
  Note: The **Color Scheme** section is available only if you enable custom color scheme 169.

   - In the **Call Scope** section, if available, select the type of calls that should be included in the statistic.
   - In the **Statistic Thresholds** section, if available, set the thresholds for calls included in the statistic.

Answer Threshold: *Default = 600 seconds, Range = 1 to 600 seconds.*
Used for statistics calculated as a percentage of calls answered within the set time out of all calls presented. Sets the target time for calls to be answered from when they are first presented to the queue or agent. Note that for agents, calls are only presented for the queue's no answer time before being presented to the next agent. Note that this setting is shared between the **Agent Productivity** 210, **Average Answer %** 229 and **Grade of Service** 238 statistics in the same monitor or wallboard view.

- **Lost Calls Threshold:** *Default = 1 second, Range = 1 to 600 seconds*.
  Lost calls are calls where the caller disconnects before the call is answered. This threshold sets the minimum time in seconds for a call to be available to be answered before it will be counted as lost. Lost calls are not included in the calculation of this statistic. Note that this setting is shared between the **Agent Productivity** 210 and **Grade of Service** 238 statistics in the same monitor or wallboard view.

   - In the **Alarm Thresholds** section, select whether you want the statistic to include a warnings and or alarms. If either is selected, use the slider to adjust the threshold levels at which it occurs.

      - Warnings are shown by the statistic background color changing to yellow.
      - Alarms are show by the statistic background color changing to red.

2. To hide the settings, close the settings menu by clicking the icon.
3. Click the icon to save the wallboard settings.

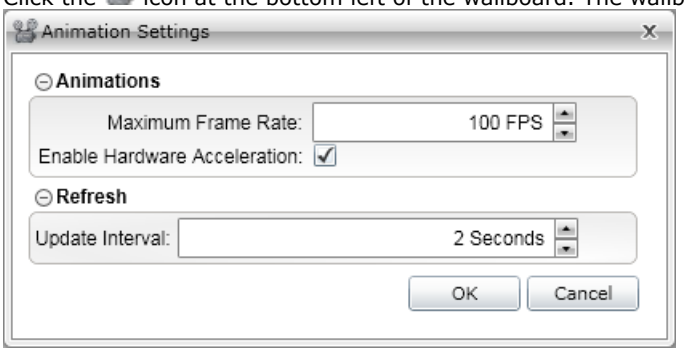
Changing the Displayed Name

The queue and statistic names displayed can be edited without affecting the operation of the element. Click the existing text and enter the required name.

4.16 Editing Animation Settings

Silverlight is used by the IP Office Customer Call Reporter wallboard and the customer map features. Proceed as follows to control the frame rate and change other animation settings:

1. Click the icon at the bottom left of the wallboard. The wallboard animation settings are displayed.



- **Maximum Frame Rate**
  Use the **Maximum Frame Rate** option to set the maximum frame rate that the wallboard can use. This option is useful to limit the maximum CPU usage. It does not set the actual current frame rate, which varies depending on both the wallboard content and the other processes being performed by the wallboard computer at an instance.
- **Enable Hardware Acceleration**
  Use the **Enable Hardware Acceleration** option to enable hardware acceleration. This option is not available if not supported by the wallboard computer. If supported, it is enabled by default. Note that for some wallboard computers, this setting only has an effect when running the wallboard in full-screen mode 175.
- **Update Interval**
  Use the **Update Interval** option to set the update interval for the statistics displayed on the wallboard in the range of 2-60 seconds. The default setting is 2 seconds.

2. Click **OK** to save any changes.

4.17 Moving and Arranging Elements

If the wallboard is in the automatic layout mode, the system moves and resizes the existing wallboard elements automatically as you add new elements or delete any of the existing ones. Except for the logo and title bar elements, which have fixed positions, you can drag and move existing elements.

To move an element, click the title bar of the element and drag it to the required position. The system adjusts the positions of other elements automatically.

Maximizing Elements

Within a set of elements, one of the elements can be set to be maximized by clicking on the up arrow at the top right of the element. When you do this, the element is enlarged and any element that is already maximized returned to it normal size. You can also return an element to its normal size by clicking on the down arrow at its top right.



A set of elements with none maximized.



A set of elements with an element maximized.

4.18 Running the Wallboard Full Screen

To run the wallboard in the full-screen mode, click at the bottom left of the wallboard. Note that when the wallboard is running in the full-screen mode, you may not be able to access some of the controls, for example, Help and Exit.

To exit the full-screen mode, either press ***Esc*** or click again.

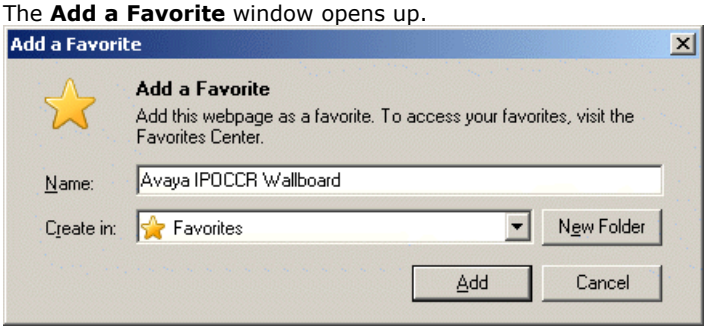
4.19 Creating Bookmark for a Wallboard

If you are using the Internet Explorer or Mozilla Firefox web browser, you can use the bookmark icon at the bottom left of the wallboard to create a bookmark for the wallboard. When you access a wallboard bookmark, the system logs you in to IP Office Customer Call Reporter automatically and opens the wallboard in the browser. Note that the bookmark icon is disabled in the Google Chrome web browser.

Use a wallboard bookmark to open the wallboard quickly when the system restarts after a power failure or shutdown. You may also set a wallboard bookmark as the Home page of your browser. Note that you can access a wallboard bookmark only when no user is logged in to IP Office Customer Call Reporter. If you try to access a wallboard bookmark when another user is logged in to IP Office Customer Call Reporter, there will be no change in the content displayed in the browser.

Creating Bookmark for a Wallboard in Internet Explorer

1. Click the bookmark icon at the bottom left corner of the wallboard.
   The **Add a Favorite** window opens up.

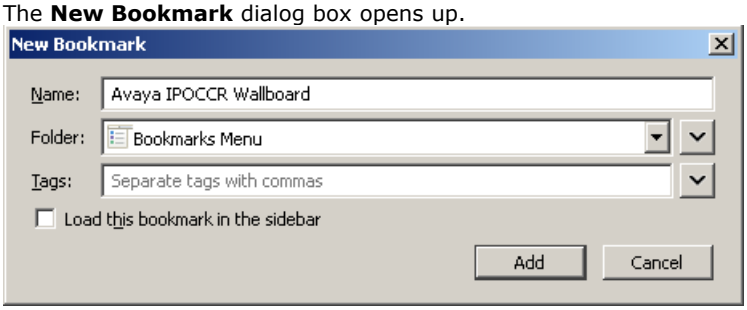


2. Enter a name for the bookmark in **Name**.
3. Select a location to save the bookmark in **Create in**.
4. Click **Add**.

Note: In Internet Explorer 9 or later, you get the opportunity to bookmark a wallboard only once per instance of opening the wallboard, and any later attempts may result in no response from the system. If you miss adding the bookmark at the first attempt, refresh the browser page to attempt again.

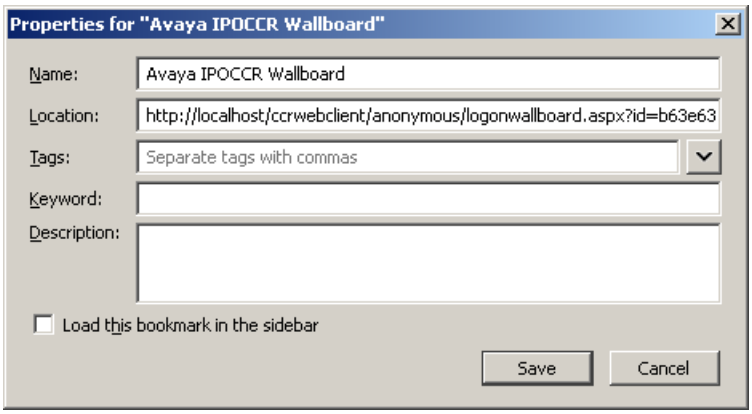
Creating Bookmark for a Wallboard in Mozilla Firefox

1. Click the bookmark icon at the bottom left corner of the wallboard.
   The **New Bookmark** dialog box opens up.



2. Enter a name for the bookmark in **Name**.
3. Select a location to save the bookmark in **Folder**.
4. Clear the **Load this bookmark in the sidebar** check box to prevent the wallboard bookmarks from opening in the sidebar of the Mozilla Firefox browser window.
5. Click **Add**.

Note: If the **Load this bookmark in the sidebar** check box is not displayed in the **New Bookmark** dialog box, click the **Bookmarks** menu of the Mozilla Firefox browser window, right-click the wallboard bookmark, and click **Properties**.



4.20 Logging Out

Unlike other IP Office Customer Call Reporter login accounts, a wallboard login does not automatically expire after the **Session Expiration Minutes** set by the IP Office Customer Call Reporter administrator. However, to access the wallboard in a different role, you must log out from the wallboard.

Logging Out of a Wallboard

1. If the wallboard is currently running in the full screen mode, click at the bottom left of the wallboard.
2. To log out, at the bottom left of the wallboard.

4.21 Wallboard Hints and Tips

Wallboards can be used to show a community of agents some statistics that are important to the way they operate. A wallboard can also be used:

- by supervisors to monitor the activity on specific statistics for specific queues.
- to improve customer satisfaction by highlighting areas that need immediate attention.
- to increase agent’s productivity.

Because a wallboard can provide so much functionality, it is important to figure out what is the goal that the Contact Center Manager is trying to achieve and try to design one or multiple wallboards to reach that goal.

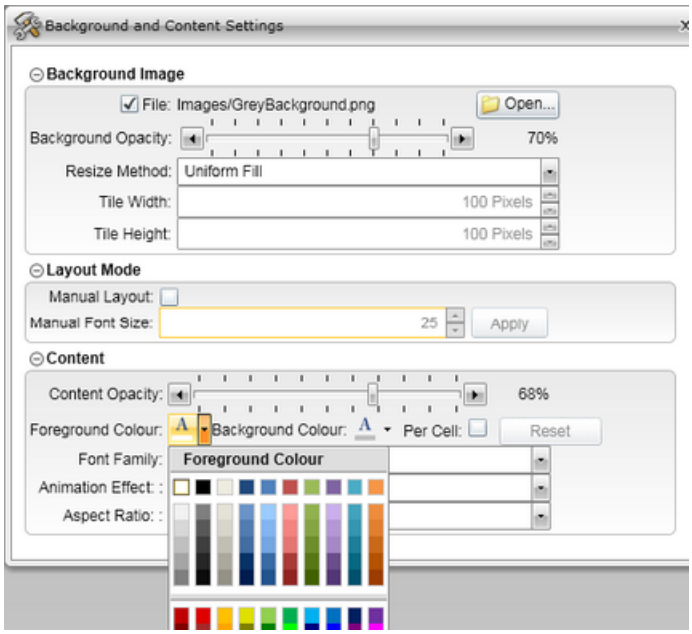
This document is meant to provide some tips when designing a wallboard when the goal is to maximize the amount of different statistics that can be displayed.

- Always wait until the wallboard has rearranged the screen before adding the next item to it.
- The choice of font and contrast colors between the foreground and background content are important. A fatter font and vivid color provide high visibility at distance. For example use Verdana, neon green (#FF00FF00) foreground and charcoal grey (#FF595959) background.
- Warnings and alarms cause statistics shown in the wallboard to turn orange or red respectively. So, use such colors for the background and foreground that the content can be red in case of a warning or an alarm.
- The default uniform grey background does not distract from the information displayed. If you change the default background image, select an image that is not distracting.
- The message bar is always as wide as the width of the entire queues shown on the wallboard. If only one or two queues are needed, the message bar will be more useful if the queues and their stats are added as rows.
- A high opacity, for example greater than 90% improves the readability of the wallboard. However a low value, for example 60%, makes it easier to see the highlighted element while editing a wallboard. Therefore it is useful to select a low opacity while editing and return it to a high value when finished.
- If the wallboard doesn't show an opacity change, save it and then refresh or restart the browser.
- The title bars height is determined automatically, based partially on the selected font size. There is a point at which reducing the font size will have no further effect on the title bar height. At this point, there is no need to use a smaller font.
- Depending on the colors selected for the content foreground and background, using a solid background instead of a shaded background may make it easier to read the data from a distance.
- When the goal of the wallboard design is to provide as many statistics as possible, the Company Logo and Message Bar are of fixed size and if not needed should not be added. Changing the font size of the Message Bar has no impact on the real estate it uses.

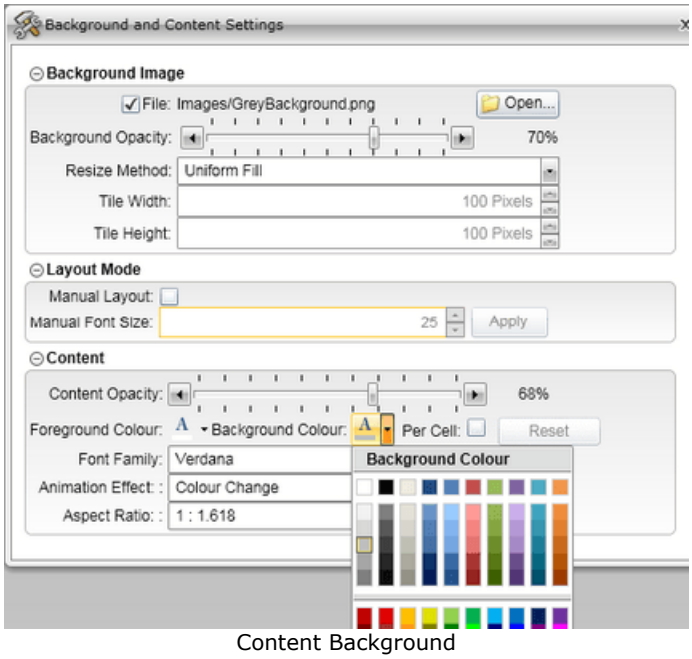
4.21.1 Maximizing Content

When designing a wallboard where a lot of information needs to be made available, there are a couple of factors to take into account: the size of the wallboard display itself and the distance between the wallboard and the furthest person that needs to read that information.

The choice of font and contrast colors between the foreground and background content is extremely important. A fatter font is preferable. This example will use the Verdana font, neon green (#FF00FF00) content foreground and charcoal grey (#FF595959) content background in its examples:



Content Foreground



Content Background

Warnings and alarms will cause the statistics boxes to turn yellow or red respectively when the conditions occur. Make sure that the colors used for the background or foreground content don't make it difficult to read when a warning or alarm occur.

Also, not to create "visual noise", it is also important that the wallboard background be of a uniform scheme, like the ***GreyBackground*** provided by default.

4.21.2 Maximizing Real Estate

When the goal of the wallboard design is to provide as many statistics as possible on one screen, it is important to realize that the **Company Logo** and **Message Bar** wallboard elements are of fixed size and if not needed they should not be used. Changing the font size of the **Message Bar** has no impact on the real estate it uses.

League Tables and **Graphs** are also using real estate that effectively provides duplicate information and therefore breaks the goal of the design.

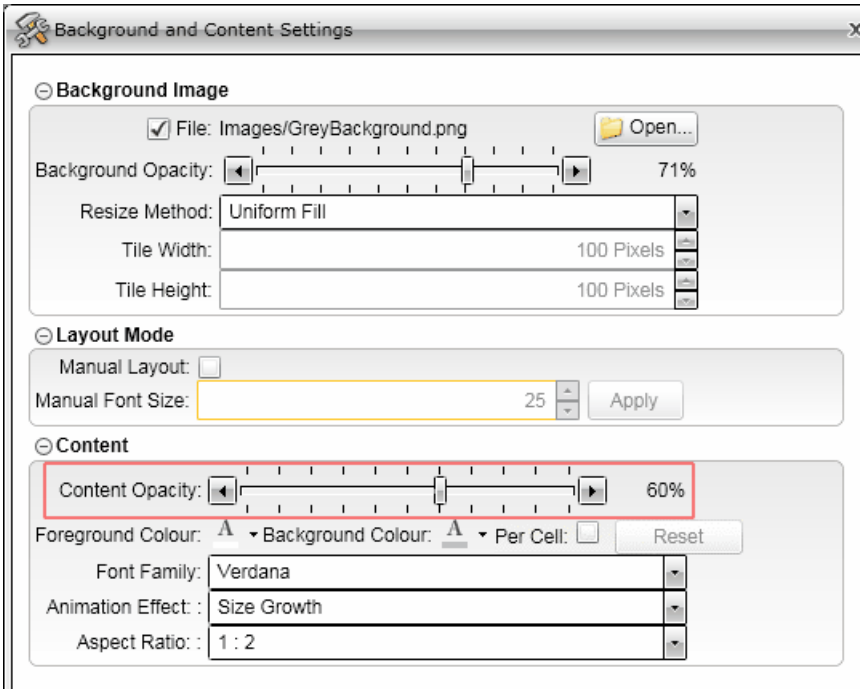
The **Title bar** can be sized to a smaller font and therefore does not really impede with the design.

4.21.3 Design Consideration

If you choose to present the statistics for queues in columns instead of rows, the display of the report is better. Depending on the size of the wallboard and the distance to the furthest individual needing to read it, up to five (5) statistics for five (5) Hung Groups can be displayed.

If a **Message Bar** is needed, it will take up the equivalent of 1 row of statistics. The **Message Bar** will always be as wide as the width of the entire queues shown on the wallboard. If only one or two queues are needed, the **Message Bar** will be more useful if the queues are added as rows. However the amount of statistics that can be added is significantly less before they become unreadable.

Because it is easier to see the highlights of a border when the opacity is set to a smaller number, you must lower the content opacity when designing the wallboard (60%). When the wallboard is ready for operation, the opacity can be set to a high number (>90%). That will increase the contrast between the content background and foreground and therefore it will increase readability.



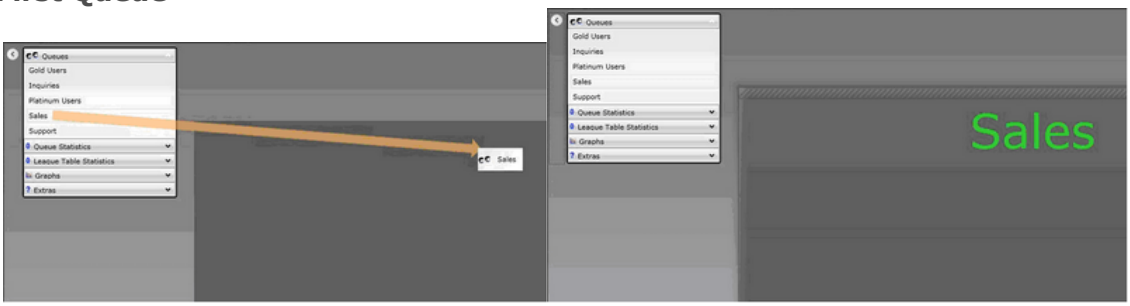
Content Opacity

Always wait until the wallboard rearranged the screen before adding the next item to it.

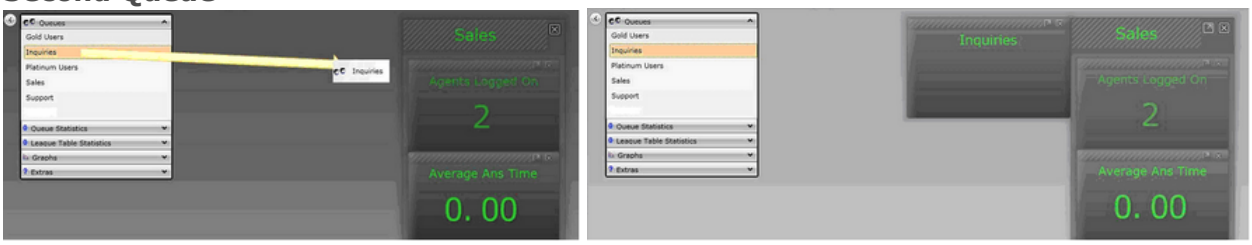
4.21.4 Adding Queues

Because it will be easier to add items from right to left, a queue will be added and all the statistics associated with it before the next queue is added. When adding a queue, pull it from the element list and drop it to the left of the header of the already added queue. It does not matter where the first queue is dropped on a blank palette.

First Queue

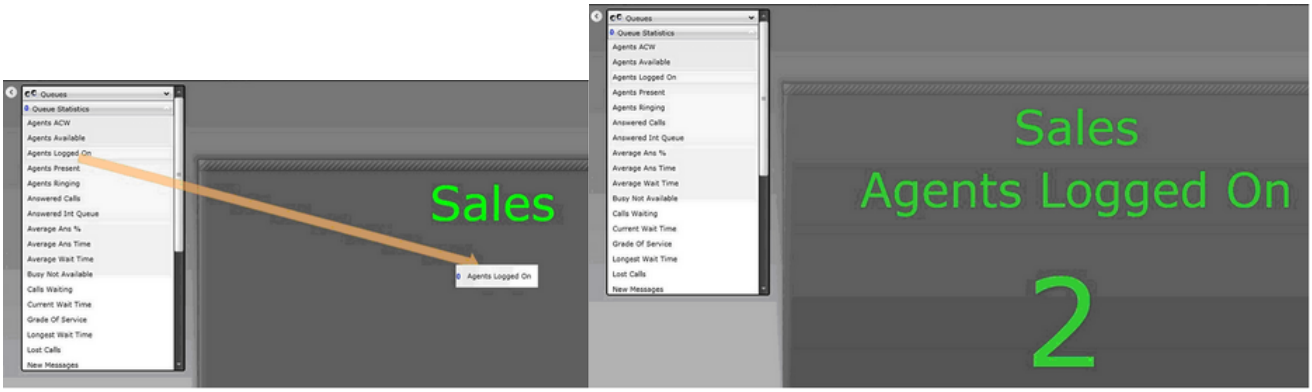


Second Queue

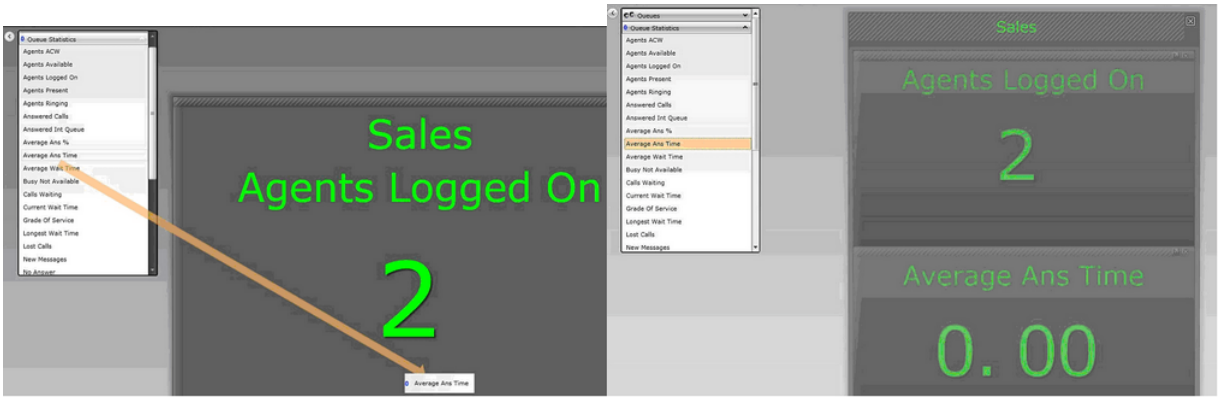


4.21.5 Adding Statistics

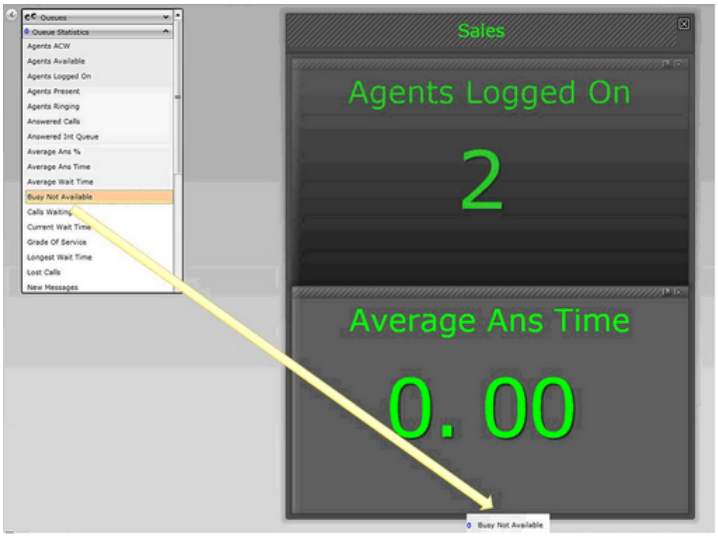
The first statistic is added to the queue by pulling it from the element list and dropping it inside the queue box. The box will become highlighted when the cursor is inside the box.



The second statistic can be added by pulling it from the element list and dropping inside the first statistic box, at the bottom near the middle. The box will be highlighted when the cursor is located within it.



The rest of the statistics are added by pulling the statistic from the element list and dropping it on the bottom border of the queue column. The whole queue associated items will be highlighted when the cursor is properly located at a border. It is possible that the dropping will not properly work. In this case, just remove it if it was added incorrectly and try again.



Content Opacity

Change the Content Opacity to at least 90%. In some cases, it is possible that the wallboard will not react properly to the new opacity settings; refreshing the screen or restarting the browser will correct this.

4.21.6 Statistics Box Background

You can change each statistic box to use solid background instead of the default shaded background. Depending on the colors selected for the content foreground and background, it can be easier to read the data from a distance without the shaded background.



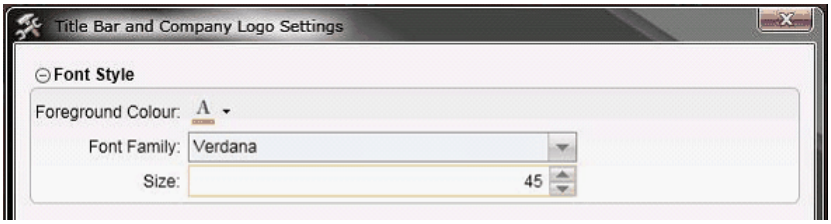
Solid Background Setting



Solid Background Shown

4.21.7 Title Bar Font

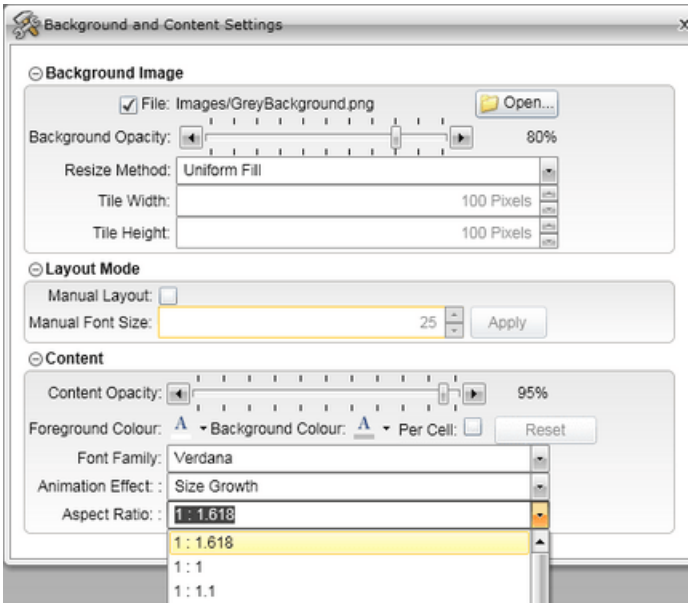
Add the **Title Bar** and resize the font to a value as small as possible. At one point, reducing the size of the font will no longer have an impact on the real estate used by the statistics. Experiment with the font size until that value is found. At this point, there is no need to use a smaller font.



Title Bar Settings

4.21.8 Aspect Ratio settings

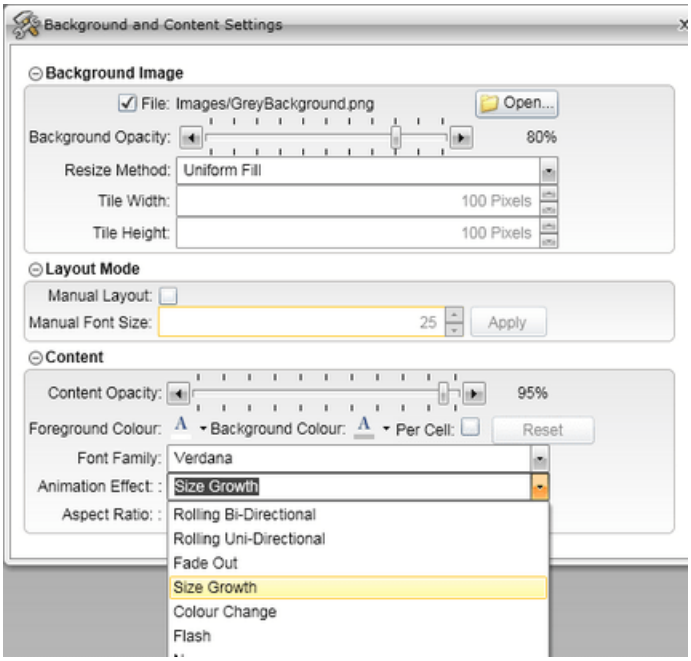
Change the Aspect Ratio to try to use more of the screen real-estate. Experiment with the different ratios until the desired result is achieved.



Aspect Ratio Settings

4.21.9 Animation Effect settings

To help bring attention to changing statistics, the animation effect can be used. Experiment with the different type of effects until the desired result is achieved.



Animation Effect Setting

Save your wallboard design by selecting the  icon at the bottom left corner of the screen.

Change to Full Screen Mode by selecting the  icon at the bottom left corner of the screen.

4.21.10 Final Result



4.21.11 Opening Wallboard at System Startup

Note: The instructions below apply to Windows XP operating system. Customize the instructions for the operating system that you are using.

Proceed as follows to configure the system to open a wallboard at the system startup:

1. Log in to the computer using the credentials for your Windows user account.
2. Open the Internet Explorer or Mozilla Firefox web browser, and log in to IP Office Customer Call Reporter 17 using the credentials for your wallboard account.
3. While logged in to your wallboard account, create a bookmark for the wallboard 175.
4. Get the URL of the wallboard bookmark.
   - In Internet Explorer, click **Favorites**, right-click the wallboard bookmark, and select **Properties**. The text in the **URL** field is the URL.
   - In Mozilla Firefox, click **Bookmarks**, right-click the wallboard bookmark, and select **Properties**. The text in the **Location** field is the URL.
3. Create a batch file, say *wallboard.bat*, with the following command:
   "c:\Program Files\Internet Explorer\iexplore.exe" -k <URL>
   where URL is the URL of the wallboard bookmark that you get in step 2 185.
4. Right-click the **Start** button, and click **Explore**.
5. Copy *wallboard.bat* to */Start Menu/Programs/Startup*.

The system will open the bookmarked wallboard in the Internet Explorer Kiosk mode at your next login to Windows user account.

6. (Optional) Turn on automatic login to configure the system to open the bookmarked wallboard as soon as the system is restarted.

Chapter 5. Administrator

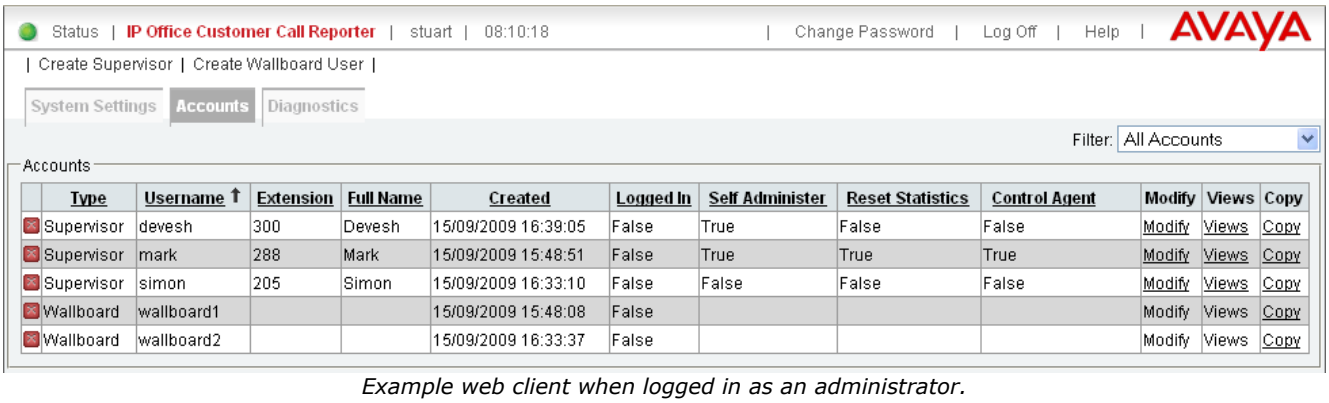
5. Administrator

The administrator can amend IP Office Customer Call Reporter system preferences plus create and administer supervisor and wallboard accounts. That includes assigning which queues a supervisor can see or granting the supervisor self-administration rights to amend their own settings including queues.

The administrator does not have any views of call statistics. However they can setup and amend the views used by supervisors and their agents.

There is only one administrator account and only one person can log in as the administrator at any time.

When you login 17 as the administrator you view a listing of all the supervisor accounts. You can then create and modify supervisor accounts 191. In the **System Settings** 199 window you can see all the monitored IP Office switches together with the name and address of all discovered IP Offices and their connection state. You can also modify the system preferences 199.



Type	Username	Extension	Full Name	Created	Logged In	Self Administer	Reset Statistics	Control Agent	Modify	Views	Copy
Supervisor	devesh	300	Devesh	15/09/2009 16:39:05	False	True	False	False	Modify	Views	Copy
Supervisor	mark	288	Mark	15/09/2009 15:48:51	False	True	True	True	Modify	Views	Copy
Supervisor	simon	205	Simon	15/09/2009 16:33:10	False	False	False	False	Modify	Views	Copy
Wallboard	wallboard1			15/09/2009 15:48:08	False				Modify	Views	Copy
Wallboard	wallboard2			15/09/2009 16:33:37	False				Modify	Views	Copy

Example web client when logged in as an administrator.

- **! Important**
  The first time you log in as the administrator, select the **System Settings** 199 tab and confirm the information in the **Preference Details** section, especially your unique e-mail address.

As an Administrator...		
• View accounts 190 • Create a supervisor account 191	• Create a wallboard account 194 • Edit a supervisor's views 195	• Restart a service 200 • Setup e-mail services 201

The Status Bar

Status 199	This button indicates the overall status of IP Office Customer Call Reporter. Clicking on the icon displays a **System Settings** 199 tab which shows the status of the individual IP Office Customer Call Reporter components. • **Green:** IP Office Customer Call Reporter is running. • **Yellow:** Some parts of IP Office Customer Call Reporter are still in the process of starting. • **Red:** There may be a problem in IP Office Customer Call Reporter.
Change Password 18	While logged in to IP Office Customer Call Reporter, you can change your password.
Log Off 21	Close the IP Office Customer Call Reporter connection. It is important to close a connection using this control rather than just closing the browser or tab within the browser. Failing to use this button will cause a 5 minute delay before you can log in again on another computer.
Help 20	Access this documentation in online format. Where possible the appropriate page for the current IP Office Customer Call Reporter screen is displayed.

Tabs

- **Accounts** 190
  This tab displays the existing supervisor accounts created by the administrator. It can be used to create and modify accounts.
- **System Settings** 199
  Use this tab to adjust system wide IP Office Customer Call Reporter settings, such as the e-mail server.
- **Diagnostics** 204
  This tab should only be used under guidance of an Avaya support engineer when requested.

5.1 Logging In

This refers to logging in to the IP Office Customer Call Reporter web client, not to logging in to a telephone 138 to receive calls.

1. Using your browser, enter the path to the IP Office Customer Call Reporter web service - ***http://<server_path>/CCRWebClient***. The login window should be displayed.
2. Enter your **Username** and **Password**.
   - If you have forgotten your password but have an e-mail address set in IP Office Customer Call Reporter, click **Forgot Password** 19.
   - If you are an agent logging in for the first time leave the password field blank. You will be asked to set your password and e-mail address as part of the login.

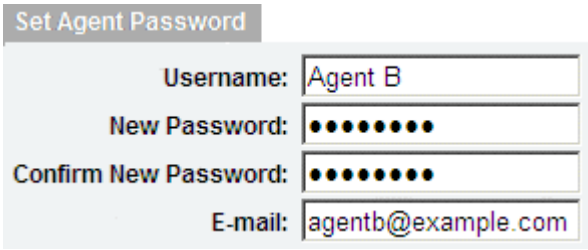


3. If you want the IP Office Customer Call Reporter web client to run in a different language, you can use the **Language** drop down to select a language from the list.

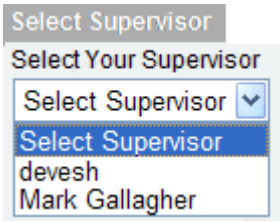
   Supported languages are ***Dutch***, ***English (UK)***, ***English (US)***, ***French***, ***German***, ***Italian***, ***Brazilian Portuguese***, ***Russian***, and ***Latin Spanish***. Some parts of customer call maps are third party components delivered over the internet and may run in different languages, for example, the zoom and pan controls.

4. Click **Login**.

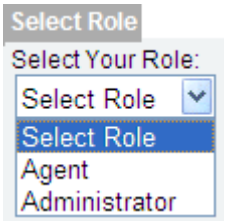
   - **Agent's First Time Login**
     If you are an agent logging in for the first time, the **Set Agent Password** window will be displayed. Enter a password of your choice and then click **OK**. Your unique e-mail address is also requested. Enter an e-mail address to be able to use the Forgot Password 19 feature.



   - **All Agent Logins**
     If multiple supervisors have been configured, agents need to indicate the supervisor they are working for.



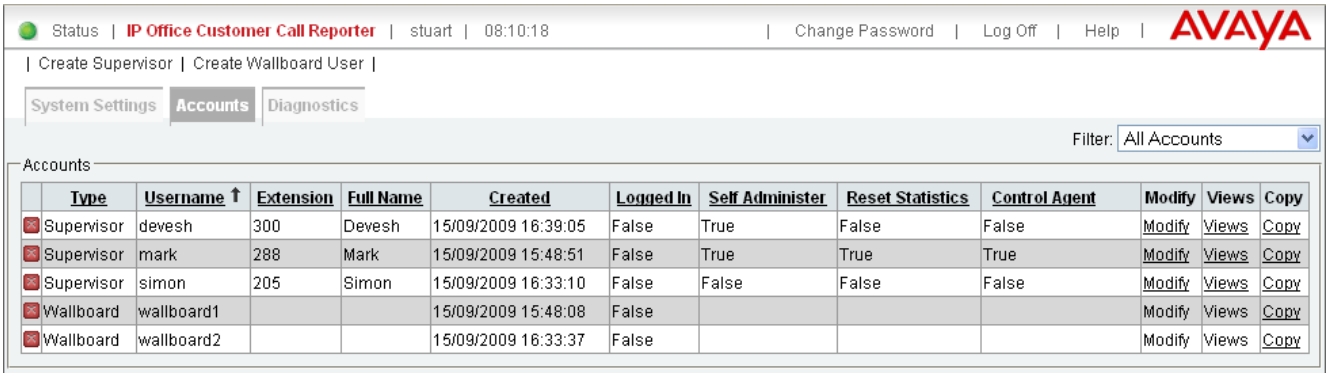
   - **Multiple Role Login (Optional)**
     If your username is configured for more than one role 331, the **Select Role** window will be displayed. Select the required role and click **OK**.



5. The web client will open in the appropriate mode: Agent 133, Supervisor 23 or Administrator 187.
   - You have three attempts to enter the correct password or username. If you fail to enter valid login details the login window will close and your account is locked for 5 minutes.
   - Logged in users who are inactive for more than a set time are automatically logged off. The default time is 30 minutes but this can be adjusted by the administrator.

5.2 Viewing Accounts

As administrator you are able to create, edit, and delete login account for IP Office Customer Call Reporter supervisors and wallboards. The details of existing accounts can be viewed on the **Accounts** tab. Use the two additional commands in the menu bar, **Create Supervisor** 191 and **Create Wallboard User** 194, to create new accounts.



Type	Username	Extension	Full Name	Created	Logged In	Self Administer	Reset Statistics	Control Agent	Modify	Views	Copy
Supervisor	devesh	300	Devesh	15/09/2009 16:39:05	False	True	False	False	Modify	Views	Copy
Supervisor	mark	288	Mark	15/09/2009 15:48:51	False	True	True	True	Modify	Views	Copy
Supervisor	simon	205	Simon	15/09/2009 16:33:10	False	False	False	False	Modify	Views	Copy
Wallboard	wallboard1			15/09/2009 15:48:08	False				Modify	Views	Copy
Wallboard	wallboard2			15/09/2009 16:33:37	False				Modify	Views	Copy

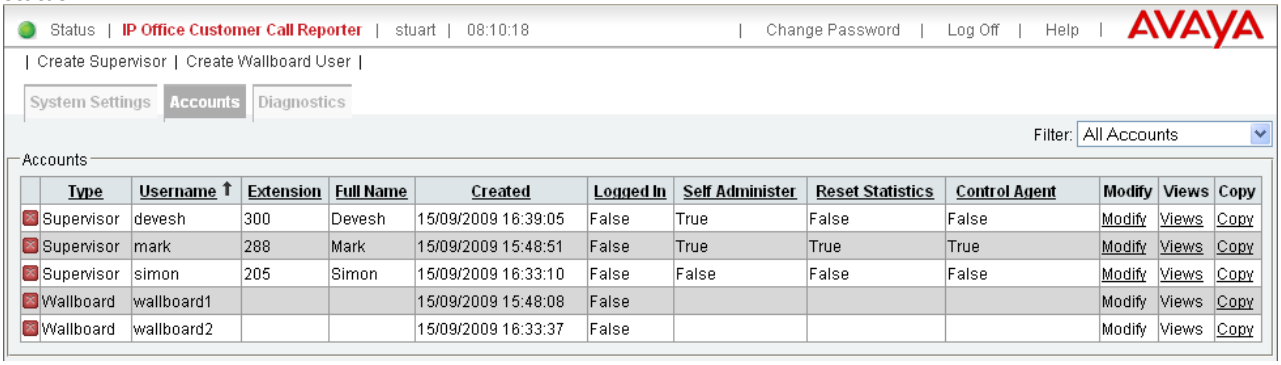
Field	Description
	Click this icon to delete an account.
Type	Indicates whether the account is a supervisor account or a wallboard account. The Filter selection at the top-right of the menu can be used to select which types of accounts are displayed.
Username	This is the supervisor username used for logging in to IP Office Customer Call Reporter. If the name matches the administrator name and or an agent name then the user can also login in those roles. Supervisors cannot change their username. See Multiple Roles 331.
Extension	The telephone extension number associated with the supervisor account.
Full Name	This name is shown to agents when they login and select their supervisor. It is also used in reports to indicate which supervisor created and ran the report.
Created	Details when the account was added to the IP Office Customer Call Reporter configuration.
Logged In	Details whether the account is currently logged in or not.
Self Administer	If selected, the supervisor has self administration rights and is able to edit some of their own Account Details 129. Supervisors with this option are also able to schedule housekeeping tasks 123 such as database backups and automatic statistic resets. Supervisors without this option are only able to edit views.
Reset Statistics	Supervisors for who the administrator has enabled the **Reset Statistics** option can reset all the statistics currently being used for supervisor views, agent views and wallboards. This will affect all supervisors, agents and wallboards. It does not affect the statistics used for historical reports.
Control Agent	Supervisors with this option enabled are able to click an agent name in a view and select from a list of actions that change the state of that agent. For example to force the agent to log in or log out. See Controlling Agent Status 110. This option requires IP Office Customer Call Reporter to be configured with details of the one-X Portal for IP Office 202 server.
Modify	Click this option to modify the supervisor account 191 or wallboard account 194 settings.
Views	Click this option to edit the supervisor's views 195. This option is not available for wallboard accounts.
Copy	Click this option to copy the supervisor account 198. This option is not available for wallboard accounts.

5.3 Creating/Editing Supervisor Accounts

Before any supervisors can use the application they need to have an account created for them. You can create up to 30 supervisor accounts. However the maximum number of supervisors that can be logged in at any time is restricted by the number of supervisor licenses.

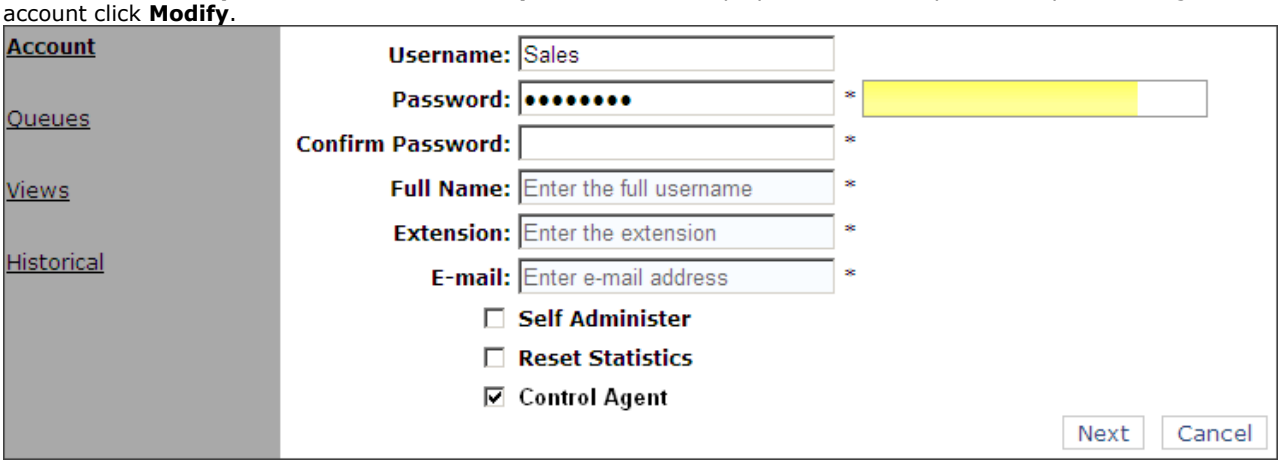
To create a supervisor account

1. Click the **Accounts** tab. All the existing supervisor and wallboard accounts are listed together with their current status.



Type	Username	Extension	Full Name	Created	Logged In	Self Administer	Reset Statistics	Control Agent	Modify	Views	Copy
Supervisor	devesh	300	Devesh	15/09/2009 16:39:05	False	True	False	False	Modify	Views	Copy
Supervisor	mark	288	Mark	15/09/2009 15:48:51	False	True	True	True	Modify	Views	Copy
Supervisor	simon	205	Simon	15/09/2009 16:33:10	False	False	False	False	Modify	Views	Copy
Wallboard	wallboard1			15/09/2009 15:48:08	False				Modify	Views	Copy
Wallboard	wallboard2			15/09/2009 16:33:37	False				Modify	Views	Copy

2. Click the **Create Supervisor** link. A **Create Supervisor** tab is displayed. Alternatively, to modify an existing account click **Modify**.

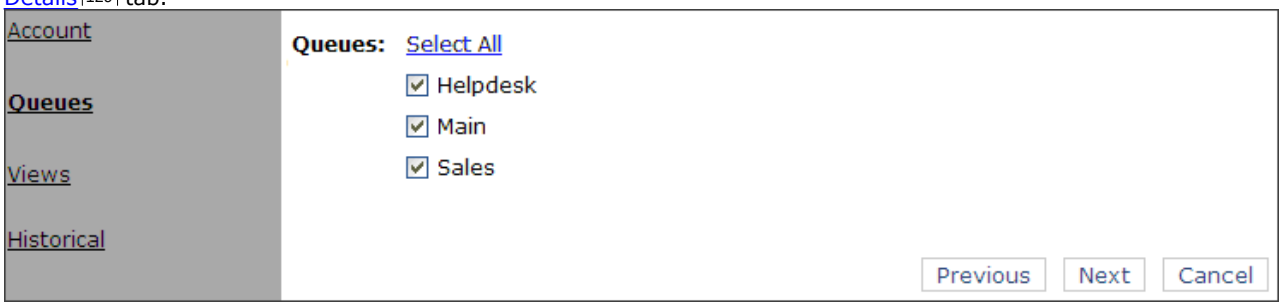


3. Complete each field with the relevant details. Note that * indicates a mandatory field that must be completed.

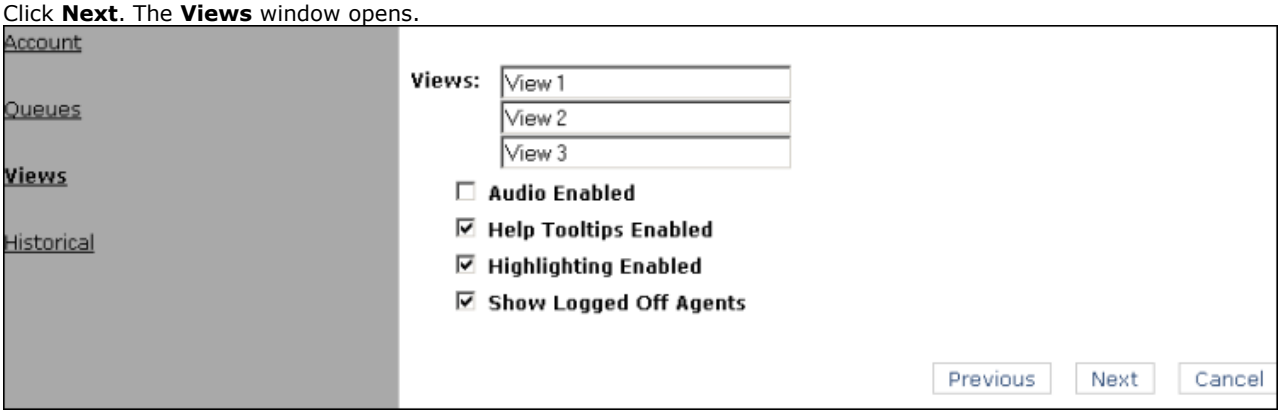
Field	Description
Username	This is the supervisor username used for logging in to IP Office Customer Call Reporter. If the name matches the administrator name and or an agent name then the user can also login in those roles. Supervisors cannot change their username. See Multiple Roles 331.
Password	This is the password used for browser access to IP Office Customer Call Reporter. All supervisors, even those without **Self Administer** rights, can use the Change Password 18 option to change their password.
Confirm Password	
Full Name	This name is shown to agents when they login and select their supervisor. It is also used in reports to indicate which supervisor created and ran the report.
Extension	The telephone extension number associated with the supervisor account.
E-mail	The unique e-mail address associated with the supervisor. This is used for the forgotten password 19 feature.
Self Administer	If selected, the supervisor has self administration rights and is able to edit some of their own Account Details 129. Supervisors with this option are also able to schedule housekeeping tasks 123 such as database backups and automatic statistic resets. Supervisors without this option are only able to edit views.
Reset Statistics	Supervisors for who the administrator has enabled the **Reset Statistics** option can reset all the statistics currently being used for supervisor views, agent views and wallboards. This will affect all supervisors, agents and wallboards. It does not affect the statistics used for historical reports.

Field	Description
Control Agent	Supervisors with this option enabled are able to click an agent name in a view and select from a list of actions that change the state of that agent. For example to force the agent to log in or log out. See Controlling Agent Status 110. This option requires IP Office Customer Call Reporter to be configured with details of the one-X Portal for IP Office 202 server.

4. Click **Next**. The **Queues** window opens. Select the queues that the supervisor will be able to view. By default all of the queues are selected. Supervisors with self administration rights can amend the selection through their Account Details 129 tab.

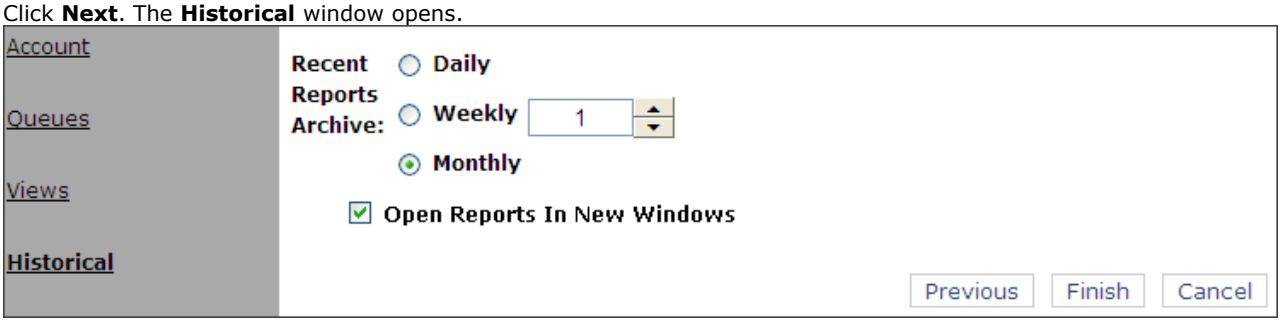


5. Click **Next**. The **Views** window opens.



Field	Description
Views	Use these fields to rename the three views.
Audio Enabled	This option is used in conjunction with any view that includes an **All Views Alarm List**. When enabled, if an alarm occurs, the browser's media player is used to play a sound file from the IP Office Customer Call Reporter server computer. The sound is played to all users looking at that supervisor's views. • This option is off by default. If enabled, an audio plug-in is required for all user browsers. Use either Quick Time or Windows Media Player.
Help Tooltips Enabled	If enabled, when the cursor is placed over the statistic name in a view, pop-up help for the statistic is displayed. Tooltips are on by default.
Highlighting Enabled	If enabled, when a statistic in a view changes value, its background briefly changes to purple, then light purple and then back to the normal background color. This option is not applied to agent state and time values. Highlighting is on by default.
Show Logged Off Agents	This option is on by default. By default, the supervisor's monitor views include a row for each agent in the selected queue including agents who are currently logged off. If this option is de-selected, agents who are logged off are removed from the monitor view.

6. Click **Next**. The **Historical** window opens.



- **Recent Reports Archive:** *Default = 1 Week, Range = Up to 12*
  This value set how long the server should store copies of reports run by the Supervisor. Whenever the supervisor logs in, reports beyond this duration will be automatically deleted.
- **Open Reports in New Windows:** *Default = On.*
  This setting is used in two ways. It sets the default value for new reports 38. However, the value can be changed within the report if required. It is also used as the setting for the display of recent reports 49. If selected, manually run reports are opened in separate pop-up windows, and you can open multiple reports at the same time. However, it requires the browser to be configured to allow popup windows. If not selected, reports are opened in the right-hand panel of the IP Office Customer Call Reporter client window.

7. Click **Finish** to create the new supervisor account. The new account will be listed in the **Supervisors Accounts** tab.
8. Once the account has been created you can create views 195 for the supervisor account. All supervisors can also amend and create their own views.

To change the details of a supervisor account

1. Display the list of current supervisor accounts.
2. Click **Modify** for the account that you want to change.
3. Click through each window and change the details.
4. Click **Finish** in the last window. The details are updated.
5. Click **Accounts** to return to the list of accounts.

To delete a supervisor account

1. Display the list of current supervisor accounts.
2. Click **Delete** for the account that you want to remove.
3. Confirm that you want to delete the account by clicking **OK**. The supervisor account is deleted.

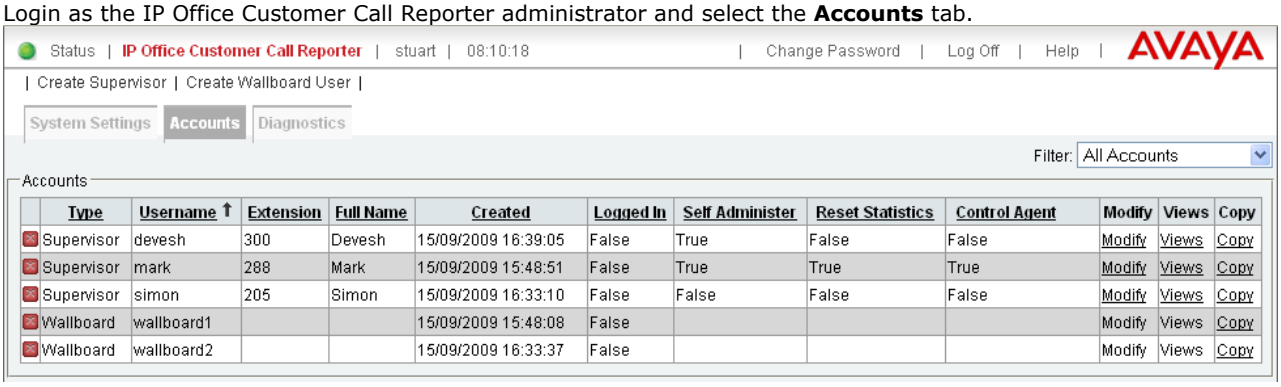
To copy a supervisor Account

- See **Copying a Supervisor Account** 198.

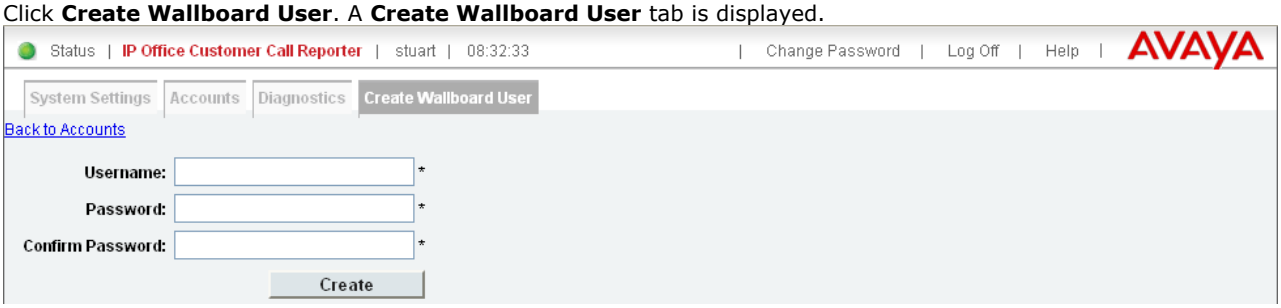
5.4 Creating a Wallboard Account

To create a wallboard account you must login as the IP Office Customer Call Reporter administrator 189.

1. Login as the IP Office Customer Call Reporter administrator and select the **Accounts** tab.



2. Click **Create Wallboard User**. A **Create Wallboard User** tab is displayed.



3. Enter the details for the account and click **Create**. Note that * indicates a mandatory field that must be completed.
4. Log off and then login using the wallboard account 151 details to verify account operation.
5. Once logged in using the wallboard account you can edit the wallboard view 152.

5.5 Amending Supervisor Views

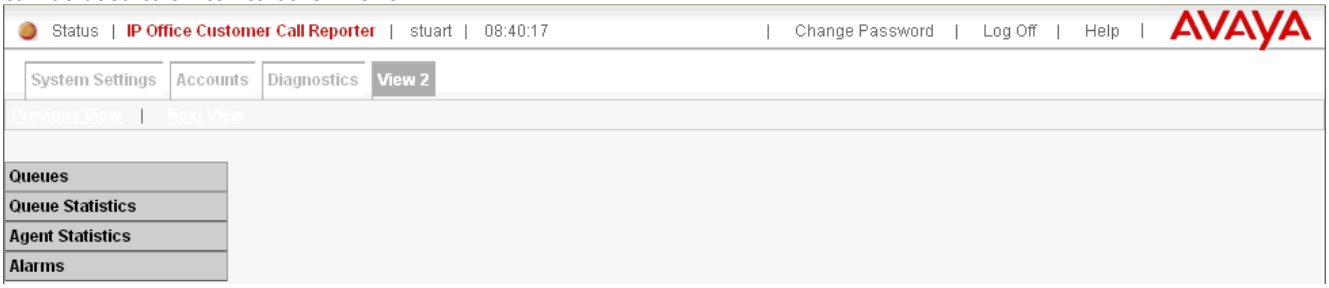
Each supervisor has three views which are displayed as their first three tabs. Each view can be configured to show different queues and statistics. The queues usable are those selected for the supervisor account 191.

All supervisors, even those without self administration rights, can also adjust their own views 105. Supervisors can also rename their three views.

To create a view

A. Select the **Accounts** tab and locate the supervisor in the list of supervisor accounts.

B. Click the **Views** link. The settings for the supervisor's first view are shown. The Next View and Previous View links can be used to switch to other views.



1. Adding Queues

By default all the queues configured for the supervisor are shown in the options panel. These are the Queues that the supervisor has permission to view as specified when creating their supervisor account 191.

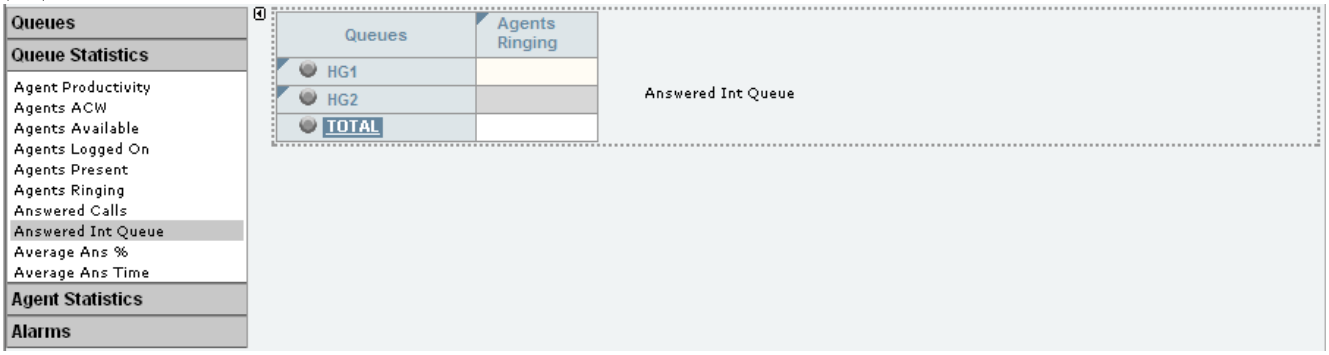


- To add a queue to the view, click **Queues**. Drag and drop the required queue into the view and when the hatched lines are displayed drop it into that area.
- **TOTAL**
  The **TOTAL** row displays a summary of the statistics for the included queues. Alarms and warning settings are not applied to the **TOTAL** row.
  - For most statistics, the **TOTAL** value is a sum of the statistic values for the included queues.
  - For statistics that are averages, the **TOTAL** value is a weighted average 347 of the statistic values for the included queues. For the **Longest Wait Time** statistic, the **TOTAL** value is the statistic value of that queue (among the included queues) that has the longest wait time. For the **Current Wait Time** statistic, the **TOTAL** value is a mean of the current wait times of all the included queues.
  - For the queue statistics that are not supported as **TOTAL** values, the value is displayed as "**–**".
- **SYSTEM**
  IP Office Customer Call Reporter 7.0+ supports reporting some queue statistics as values for the whole system. This target type always follows the same rule as queues. Alarms and warning settings are not applied to **SYSTEM** values. **SYSTEM** can also be selected in the dashboard and wallboard.
  - For most queue statistics, the system value is a total of all queues including those not in the current view.
  - For queue statistics that are averages, the system value uses the same type of average as defined for individual queue - simple, combined, or weighted average 347. For the **Current Wait Time** and **Longest Wait Time**, it is the largest value from all queue.
  - For those queue statistics that are not supported as system values, the value displayed is a – (or plotted as a zero value).
- To remove a queue from the view, click the circle next to its name and select **Hide**.
- To adjust the order of the queues, click the corner icon and drag the queue to the required position.

2. Add Queue Statistics

Comments on this document? infodev@avaya.com

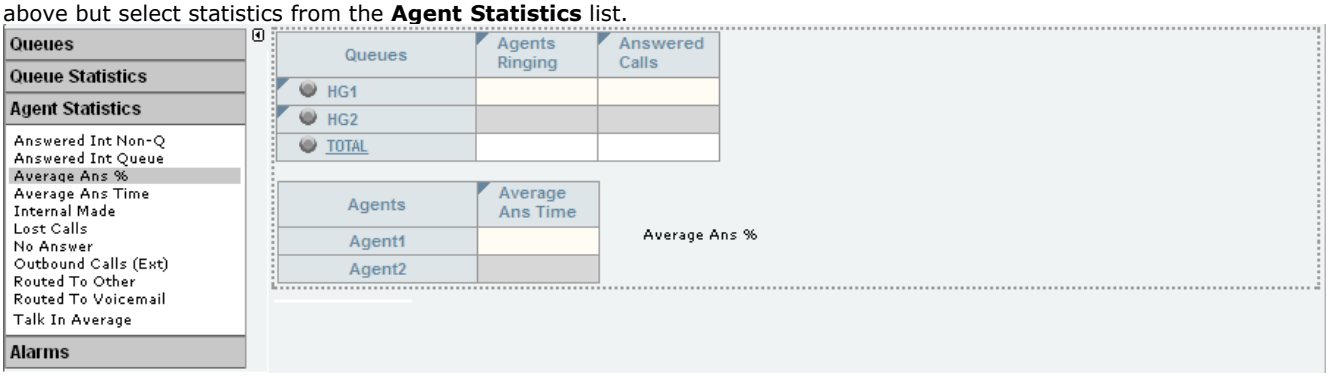
You can select which statistics should be displayed for the queues. For details of the available statistics see Statistics 206.



- To add a statistic to the view, click **Queue Statistics** to view available statistics. Drag and drop the required statistic into the area surrounded by hatched lines in the view.
- Only one instance of each agent and queue statistic can be added to a view.
- Newly added statistic will display the appropriate values for activity since the last statistics reset rather than since the statistic was added to the view.
- To remove a statistics from the view, click the statistic name in the view and select **Hide**.
- To adjust the order of the statistics, click the ◤ corner icon and drag the statistic to the required position.
- To adjust the settings used for a statistic, click the statistic name and select **Settings** 206.

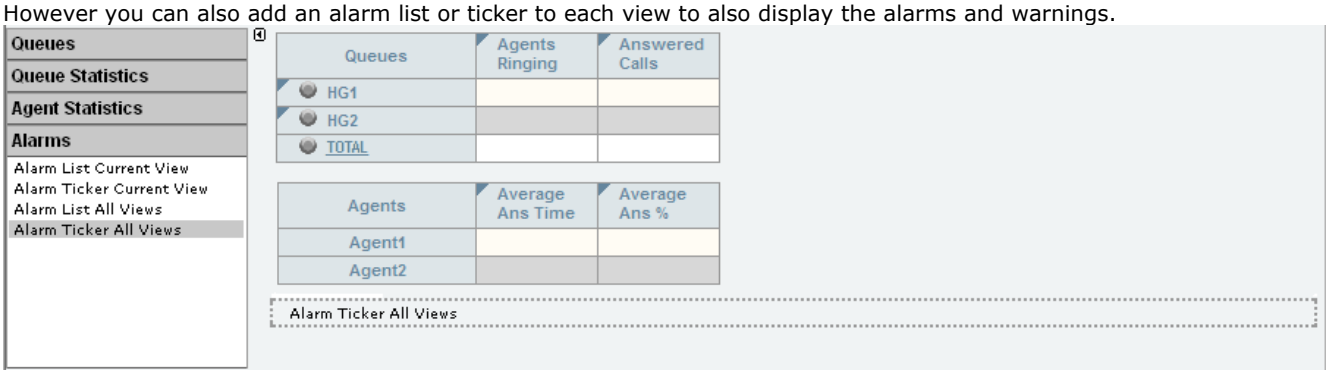
3. Add Agent Statistics

Click one of the queue names to display the list of agents in that queue. Use the same options as for queue statistics above but select statistics from the **Agent Statistics** list.



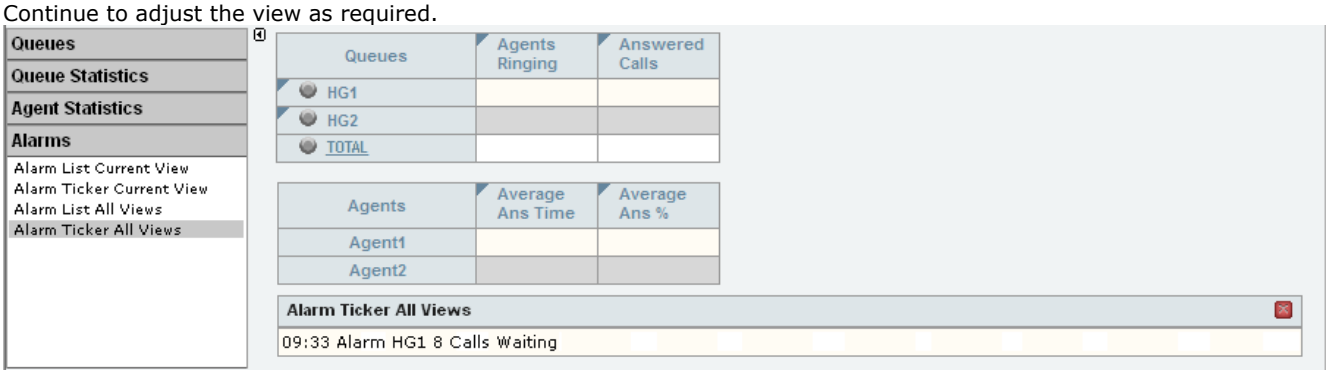
4. Adding an Alarm Summary

Each statistic configured to provides alarms and or warnings does so by displaying different color backgrounds. However you can also add an alarm list or ticker to each view to also display the alarms and warnings.



- Click **Alarms**. Drag and drop the required type of alarm list or ticker to the area either above or below the currently displayed statistics. If required you can have two sets of alarms, one above and one below.
  - An alarm list shows the 100 most recent current alarms and warnings is a scrollable list of all the current alarms and warning. Alarms are shown first in chronological order followed by warnings in chronological order.
    - Alarms in the **Alarm List All Views** can also trigger an audible alarm if the supervisor's account 129 is set as **Audio Enabled**. This will be played to all users looking at that supervisor's views.
  - An alarm ticker shows the 5 most recent current alarms and warnings one at a time, showing each for a few seconds before displaying the next.
  - Alarms and warnings take the form: *Time, Type (Alarm or Warning), Name (Queue name, agent name), Current value, Statistic name.* For agent and queue state alarms, the state is included in the name. For ***Busy Not Available*** state alarms the reason code is included. For example:
    - *12:45 Alarm Sales 15 Calls Waiting*
    - *16:31 Warning Sales 120 Average Answer Time*
    - *17:20 Alarm Extn2101 Agent State Q – Busy Not Available (paper work)*
  - Alarms and warnings are updated approximately every 8 seconds.
  - Clicking on the underlined text in an alarm or warning will change the view to the one containing the alarm or warning and will also select the appropriate queue in that view.
  - Alarms and warnings are removed from the list in when the relevant statistic drops back to the threshold level. The supervisor or agent viewer can also remove an alarm or warning by clicking on the appropriate colored cell of statistic value. Acknowledging an alarm or warning only affects their view.
  - Alarms for database capacity are not shown within the alarm lists and trackers. They are shown during log in.

5. Continue to adjust the view as required.



C. When completed, click the **Accounts** tab again.

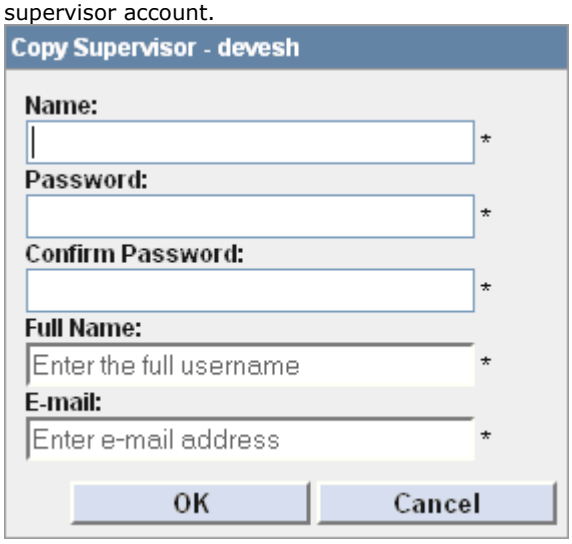
5.6 Copying a Supervisor Account

You can create a new supervisor account based on an existing one.

- All the queues that have been selected to be monitored are copied.
- The following settings of the existing supervisor are not copied: name, password, full name, e-mail address and views.

To copy an existing account

1. Click the **Accounts** tab to view the list of supervisor accounts that have been created.
2. Click the **Copy** link next to the existing supervisor account which you want to use as the basis for the new supervisor account.



3. Enter the new supervisors name in the **Username** field.
4. Enter a **Password** and confirm the password.
5. Enter the supervisor's **Full Name**.
6. Enter the supervisor's unique **E-mail** address. This is used for functions such as Forgotten Password 19.
7. Click **OK** to create the account.
8. You can now amend the supervisor account 191 and create views 195 for the account.

5.7 System Settings

The **System Settings** tab contains several sections. The information in each section is shown or hidden by clicking on the section name. This tab can also be accessed by supervisors and agents clicking on the **Status** option. However they will not see the **Preferences** section and cannot restart services.

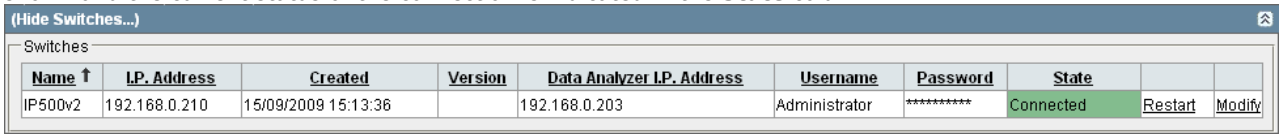
The information sections are:

- **Switches** 199
  This section displays information about the telephone systems (switches) that the IP Office Customer Call Reporter is aware of and which one it is connected to.
- **Services** 200
  This section displays information about the different IP Office Customer Call Reporter services and their status.
- **Preferences** 201
  This section is only available to the administrator.

5.7.1 Switches

This section displays information about the telephone systems (switches) that the IP Office Customer Call Reporter is aware of and which one it is connected to.

1. Click the **System Settings** tab.
2. Click **Show Switches**.
   The details of the IP Office system to which the IP Office Customer Call Reporter is configured to work are shown and the current status of the connection is indicated in the **State** column.


(Hide Switches...)

Switches

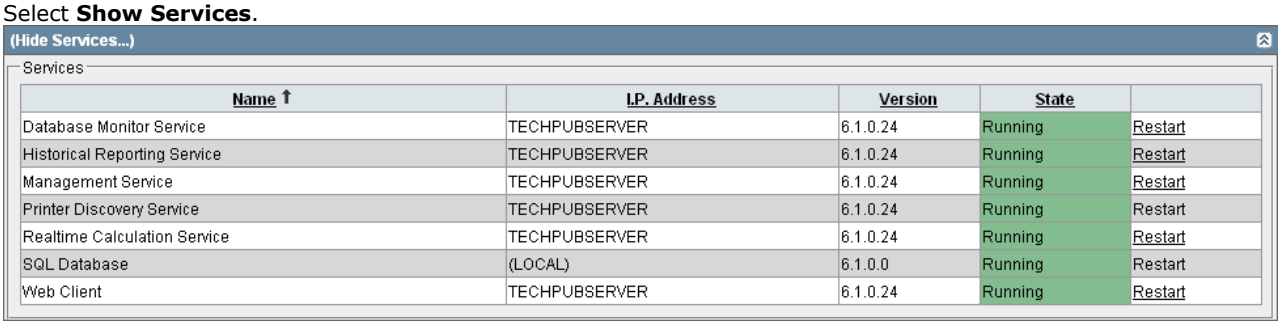
Name	I.P. Address	Created	Version	Data Analyzer I.P. Address	Username	Password	State		
IP500v2	192.168.0.210	15/09/2009 15:13:36		192.168.0.203	Administrator	**********	Connected	Restart	Modify

3. Click a column name to sort the list using that column. The arrow icon indicates the column that the list is sorted by and if it is in ascending ⇧ or descending ⇩ order.
4. The information displayed cannot be changed here. (Refer to the *Avaya IP Office Implementing IP Office Customer Call Reporter* (15-601133) manual for details on changing this information.)
   - **Name**
     The name of the IP Office 340 telephone system.
   - **IP Address**
     The IP address of the IP Office telephone system.
   - **Created**
     When the connection was configured for use by IP Office Customer Call Reporter.
   - **Version**
     The IP Office core software version of the IP Office telephone system.
   - **Data Analyzer IP Address**
     The data analyzer is an IP Office Customer Call Reporter component which collects information from the IP Office telephone system and passes it to the other IP Office Customer Call Reporter components.
   - **Username**
     The IP Office service user name that has been used for the connection to the IP Office.
   - **Password**
     This field is masked except when being modified.
   - **State**
     This column shows the state of the connection from the IP Office Customer Call Reporter server to the data analyzer and IP Office. The required state for normal operation is ***Connected***.
   - **Restart**
     This option is disabled for non-administrators.
   - **Modify**
     This option can be used by the IP Office Customer Call Reporter administrator to change to ***IP Address***, ***Username*** and or ***Password*** that is being used for the connection to the IP Office. Refer to the *Avaya IP Office Implementing IP Office Customer Call Reporter* (15-601133) manual for full details as changing the IP Address has implications for the existing queue and agent data already collected in the IP Office Customer Call Reporter database.

5.7.2 Services

This section displays information about the separate software services used by IP Office Customer Call Reporter.

1. Select the **System Settings** tab.
2. Select **Show Services**.



Name	IP. Address	Version	State	
Database Monitor Service	TECHPUBSERVER	6.1.0.24	Running	Restart
Historical Reporting Service	TECHPUBSERVER	6.1.0.24	Running	Restart
Management Service	TECHPUBSERVER	6.1.0.24	Running	Restart
Printer Discovery Service	TECHPUBSERVER	6.1.0.24	Running	Restart
Realtime Calculation Service	TECHPUBSERVER	6.1.0.24	Running	Restart
SQL Database	(LOCAL)	6.1.0.0	Running	Restart
Web Client	TECHPUBSERVER	6.1.0.24	Running	Restart

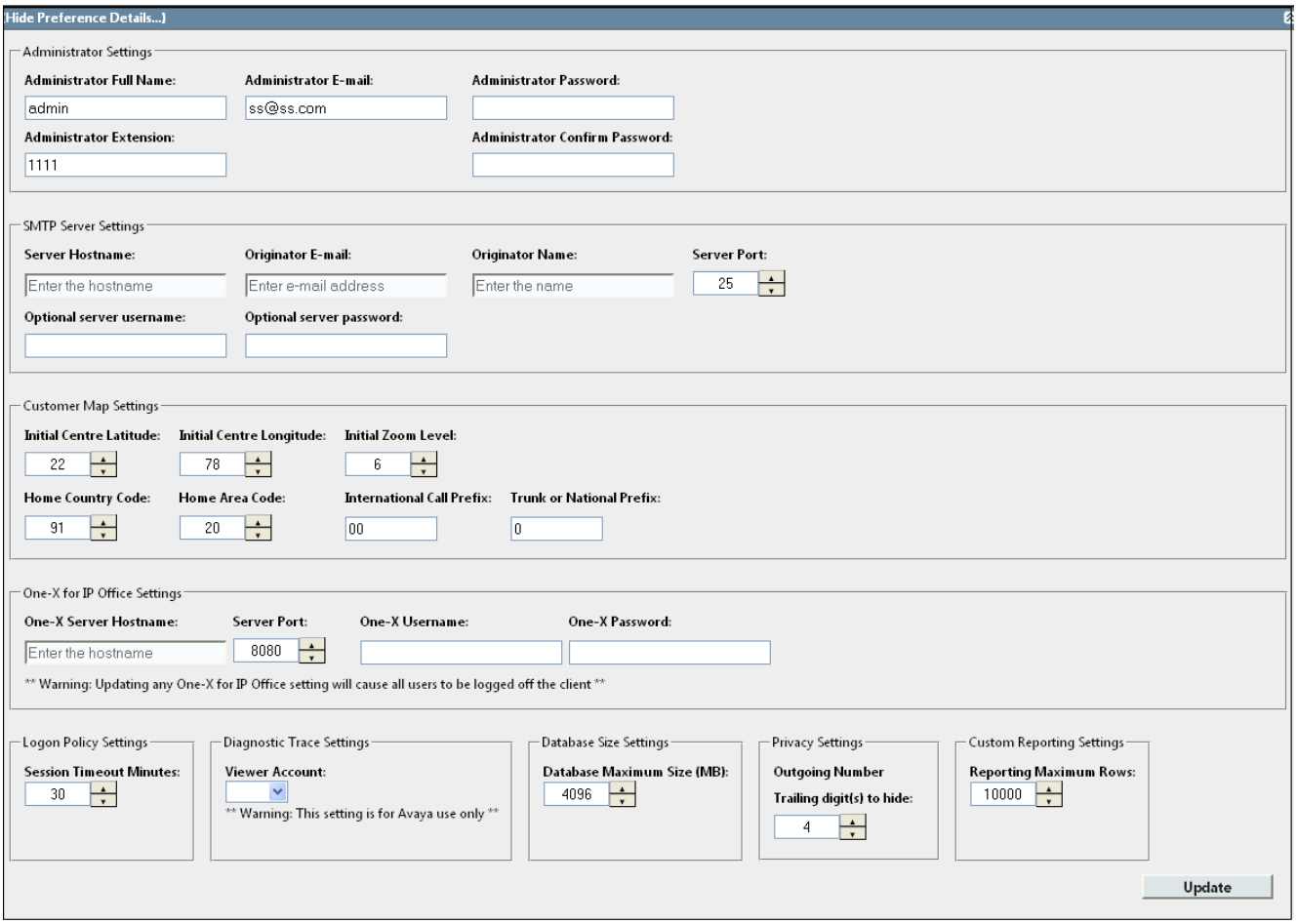
3. Click a column name to sort the list using that column. The arrow icon indicates the column that the list is sorted by and if it is in ascending ⇧ or descending ⇩ order.
4. The information displayed is:

- **Name**
  The name of the service.
- **IP Address**
  The address or host name of the server computer on which the service is running.
- **Software Version**
  The version of the service.
- **State**
  The current state of the service.
- **Restart**
  This option is disabled for non-administrators. If underlined, the option can be used to restart the related service. Note that restarting any services may reset the statistics seen in views.

5.7.3 Preferences

This section is only available to the administrator. The administrator can use this section to set or change various IP Office Customer Call Reporter settings.

1. Select the **System Settings** tab.
2. Select **Show Preference Details**.
3. Adjust the settings to match the requirements of the system. Refer to the following sections for details of the individual controls and settings.
4. Click **Update**. Anyone who is using the client application will be logged off as soon as you update the settings.



Administrator Settings

The following parameters are used to configure the administrator account.

- **Administrator Full Name**
  This field is for general information only.
- **Administrator E-mail**
  This field is used in conjunction with the forgotten password 19 function.
- **Administrator Extension**
  This field is for general information only.
- **Administrator Password** and **Administrator Confirm Password**
  Use these fields to change your administrator password.

SMTP Server Settings

Access to an SMTP server is required for sending the reports to an e-mail address and for the forgotten password function.

- **Server Hostname**
  This should be the full name of the SMTP server including its domain name.

- **Originator E-mail**
  The sender's e-mail address to be used for e-mails from IP Office Customer Call Reporter. Note that most SMTP servers will require this to match the e-mail address of an account configured on the SMTP server or to be an address configured as one that the SMTP server will relay.
- **Originator Name**
  The name to use on e-mails sent from IP Office Customer Call Reporter.
- **Server Port**
  The port of the SMTP server on which it receives e-mails. The default for most SMTP servers is 25.
- **Optional Server Username** and **Optional Server Password**
  If the SMTP server uses authentication, enter a username and password that matches the security details of an e-mail account for IP Office Customer Call Reporter configured on the SMTP server.

Customer Map Settings

These settings control the default customer map operation.

- **Initial Centre Latitude:** *Default = 55, Range = -90 to 90*
  Sets the default map center for a customer map view when started.
- **Initial Centre Longitude:** *Default = -5, Range = -180 to 180*
  Sets the default map center for a customer map view when started.
- **Initial Zoom Level:** *Default = 6, Range = 1 (Neighborhood) to 20 (World)*
  Sets the default zoom level for a customer map view when started.
- **Home Country Code:** *Default =44 (United Kingdom)*
  For calls that do not include a country code, this value will be used as the country code.
- **Home Area Code:** *Default = 20 (London)*
  For calls that do not include an area code, this value will be used as the area code.
- **International call Prefix:** *Default = 00*
  The number that must be dialled to make an international call from the country of origin.
- **Trunk or National Prefix:** Default = 0
  This is the number that must be dialled in a domestic (within country) call before any area codes or individual numbers.

one-X Portal for IP Office Settings

A connection to the one-X Portal for IP Office server is used to by IP Office Customer Call Reporter for the control agent state 110 function. These settings are used to set the location of the one-X Portal for IP Office server and the details of the one-X Portal for IP Office user configured as a ***User Manager*** (refer to the *Avaya IP Office Implementing IP Office Customer Call Reporter* (15-601133) manual). For supervisors to use the function, their account must be configured 191 with the **Control Agent** setting enabled.

- **one-X Server Hostname**
  Enter the address of the one-X Portal for IP Office server.
- **Server Port**
  By default the one-X Portal for IP Office server uses port 8080.
- **one-X Username and one-X Password**
  Enter the name and password of the one-X Portal for IP Office ***User Manager*** account.

Login Policy Settings

- **Session Timeout Minutes:** *Default = 30 minutes.*
  This setting controls how long users logged in to an IP Office Customer Call Reporter web client can be inactive. When this timeout is exceeded, the user is required to login again. The timeout setting can be set for between 1 minute and 1440 minutes (1 day). The default setting is 30 minutes. This setting is not applied to wallboard logins.
  - Note that other events, for example manually restarting the IP Office Customer Call Reporter services, can also cause users to be required to login again.
  - Setting the timeout to a large value may not work as intended if the time period is likely to include a scheduled reset of the web services 123. During a scheduled reset, any connected sessions are temporarily interrupted while the reset occurs but then continued with the timeout period reset.
  - The session timeout for a particular supervisor does not occur if they have a dashboard or graph setup for a longer period. For example, if they have a dashboard graph set for four hours and the session timeout is set to a smaller value, their session will not timeout until four hours have expired. Supervisors are, therefore, able to get all the requested data without being interrupted by a session timeout.

Diagnostic Trace Settings

- **Viewer Account**
  This option will only be used when advised by Avaya when they require additional information to diagnose a possible problem.

Database Size

- **Database Maximum Size:** *Default = 4096MB*
  Once the database has reached 75% of its maximum size, an alarm will be generated and displayed whenever users log in to IP Office Customer Call Reporter. At 80% an alarm will be generated and the IP Office Customer Call Reporter application will begin to take the required actions to continue recording new data. The action taken is to automatically erase the oldest 10% of data.
  Note: This setting applies only to the Express Editions of SQL Server and does not apply to any other commercial Editions.

Privacy

The system can completely or partially mask the number dialed for outgoing external calls in reports based on the Call Details Report or Trace Report standard report types. For reports based on customer report types, it also masks digits in the **Call_Dialed_Number** field used in the report.

- **Trailing Digits to Hide:** *Default = 0, Range = 0 to 20.*
  This field is used to set the number of digits to hide from the end of the dialed number on outgoing external calls. Up to 20 digits can be masked, from the end of the number. If the number dialed has less digits than the number of digits to mask, the system masks all the digits. Note that for recent reports, when you view the report the number of masked digits remains the same as the setting when the report was first viewed.

Custom Report Settings

- **Reporting Maximum Range**: *Default = 10000 , Range = 1 to 250,000.*

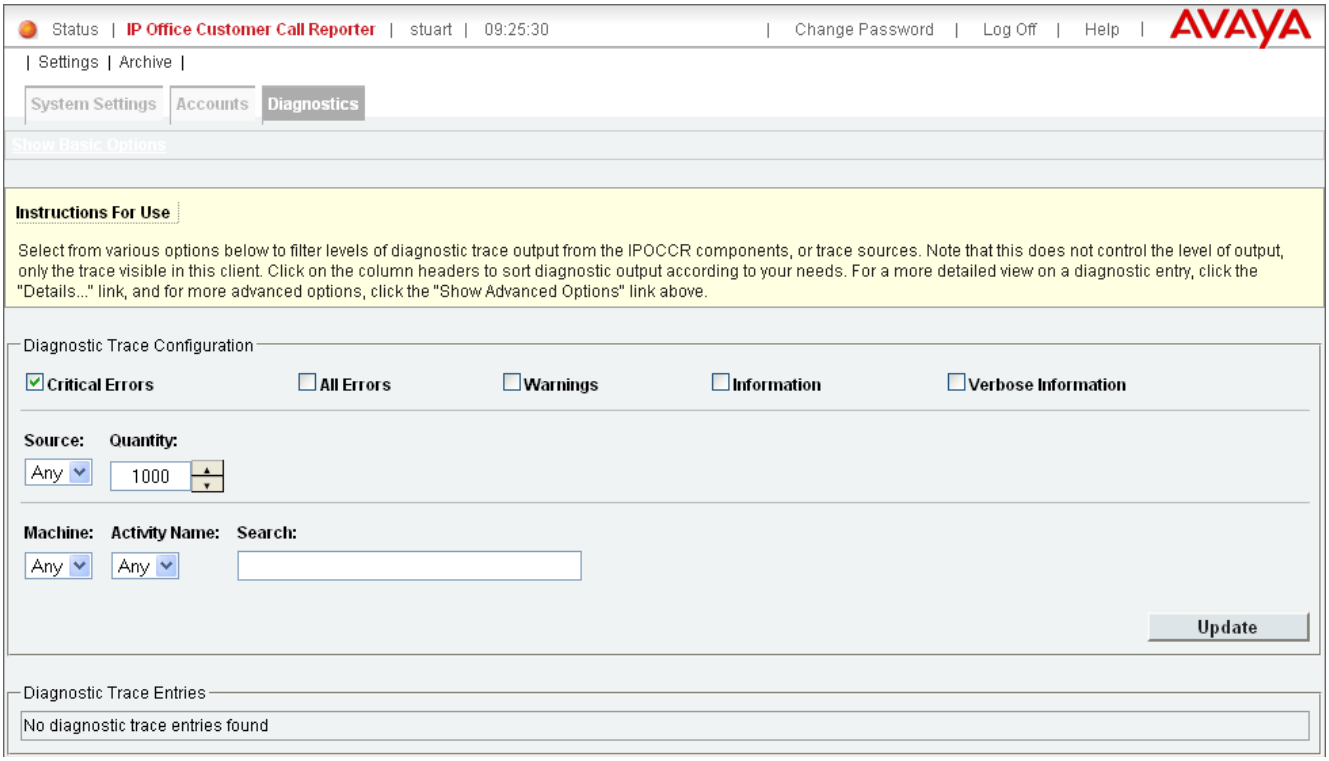
  This field is used to set the maximum number of rows for each data set for a custom report and applies independently for each Data Set in custom reporting. You can set the maximum number of rows to 250,000. This prevents any formatting issues and failures in generating the reports if the reports are heavy. This setting does not apply to standard reporting.

  Note: If the custom report that you are generating contains more rows than the configured value in the Custom Report settings, a warning is displayed as follows" Warning: This report will contain more than xxx rows". You can cancel the report generation by using the **Cancel** link. If you go ahead and generate the report, the report is truncated to accommodate the only the maximum number of rows that are configured in the Custom Report settings. This is applicable only to the Custom Reports.

5.8 Diagnostics

The options available on the **Diagnostic** tab should only be used under guidance by an Avaya authorized engineer.

When run the diagnostics traces are written into the IP Office Customer Call Reporter database and so consume space. Therefore diagnostics trace should only be run when absolutely required for fault resolution.



Chapter 6.
Statistics

6. Statistics

This section provides details on the statistic used in the supervisor views, agent views and wallboards.

IP Office Customer Call Reporter collects information about calls to queues and agents and stores this in its database. It also collects information about the current state of the queues and agents. Statistics based on this information are then used in web views and historical reports.

- Except where specifically indicated, usually by the term 'Non-Queue', all statistics relate to calls targeted to queues.
- Each statistic can only be added once within each view.
- Statistics are calculated values. They are affected by configurable settings on the particular view, wallboard or report such as whether to include or exclude internal calls. Those settings can be varied for each instance where a particular statistic is used.
  - The exception is statistics that use answer and lost calls thresholds values in their calculation. The same threshold values are used for all such statistics in the same view or wallboard display.
- The statistics value in views and wallboards can be manually reset when required by any supervisor for who the administrator 336 has enabled the Reset Statistics 111 option. Resetting the statistics affects the view and wallboard statistics for all supervisors and agents. It does not affect the statistics used for historical reports.
- The statistics in views are updated approximately every 2 seconds.

Statistic Targets

Statistics can be reported on the following types of target. Some statistics can be reported on some or all of the target types, refer to the Available Statistics 208 table.

- **Agents**
  Statistics selectable for an agent return the value for that individual agent only.
- **Queues**
  Statistics selectable for a queue return the value for all agents in the queue or all calls targeted to the queue depending on the particular statistic.
- **TOTAL**
  The **TOTAL** row displays a summary of the statistics for the included queues. Alarms and warning settings are not applied to the **TOTAL** row.
  - For most statistics, the **TOTAL** value is a sum of the statistic values for the included queues.
  - For statistics that are averages, the **TOTAL** value is a weighted average 347 of the statistic values for the included queues. For the **Longest Wait Time** statistic, the **TOTAL** value is the statistic value of that queue (among the included queues) that has the longest wait time. For the **Current Wait Time** statistic, the **TOTAL** value is a mean of the current wait times of all the included queues.
  - For the queue statistics that are not supported as **TOTAL** values, the value is displayed as "**–**".
- **SYSTEM**
  IP Office Customer Call Reporter 7.0+ supports reporting some queue statistics as values for the whole system. This target type always follows the same rule as queues. Alarms and warning settings are not applied to **SYSTEM** values. **SYSTEM** can also be selected in the dashboard and wallboard.
  - For most queue statistics, the system value is a total of all queues including those not in the current view.
  - For queue statistics that are averages, the system value uses the same type of average as defined for individual queue - simple, combined, or weighted average 347. For the **Current Wait Time** and **Longest Wait Time**, it is the largest value from all queue.
  - For those queue statistics that are not supported as system values, the value displayed is a – (or plotted as a zero value).

Statistic Types

The statistics kept by IP Office Customer Call Reporter can be categorized into the following types:

Statistic Type	Description
State Statistics	These statistics show the current state of a queue or agent. Each of these statistics also has a complementary statistic that shows how long the queue or agent has been in its current state. The total time agents have spent in different states is available through historical reports based on the **Agent Summary Report** 52 template. Examples: • **Agent State (Queue)** shows the current state (*logged off, available, busy, etc*) of each agent in a queue. • **Agent State (Queue) Time** shows the time each agent in a queue has been in their current state.
Calls/Agents	These statistics show the current number of agents or calls in particular states. The value of these statistics can go up and down and are not available as historical report values. Examples: • **Agents ACW** shows the number of agents in a queue who are currently in the after call work (ACW) state. • **Calls Waiting** shows the number of calls ringing or queued waiting to be answered.
Call Counts	Depending on the statistic, these statistics increment each time the queue or agent makes, loses, refuses or answers a call. Examples: • **Answered Calls** shows the number of queue calls answered by an agent or all the agents in a queue. • **Internal Made** shows the number of internal calls made by an agent.
Performance Measures	These statistics combine call counts and target values set by Supervisors to provide a measure of queue or agent performance. Examples: • **Agent Call Share** shows an agents share of queue calls answered out of all queue calls answered for a particular queue. • **Average Answer %** shows the percentage of calls answered that were answered within the target time set by the supervisor.

Statistic Colors

A number of different color backgrounds are used while displaying statistics. The following colors are used for normal statistics (these colors are not used in wallboards). The colors for changing statistic number values are optional (enabled by the supervisor's account setting 129 **Highlighting Enabled**) and are not applied to agent state and time values. They are also reset if you change view.

Normal (White)	**Alternate Row** (Light Gray)	**Just Changed** (Purple)	**Recently Changed** (Light Purple)

The following additional colors are used when any statistic is configured to display warnings and alarms. These colors override the ones above. Wallboards only display the colors for warnings and alarms.

Enabled / Cleared (Green)	**Warning** (Orange)	**Alarm** (Red)	**Acknowledged** (Blue)

Alarms and warnings are automatically cleared when the statistic value returns to the threshold level of the alarm or warning. Agents and supervisors can acknowledge an alarm or warning in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarms list.

6.1 Available Statistics

Statistic Full Name	Available for ...				Call Type[1]		Warning/ Alarm Type	Include Overflow	
	System	Queue	Agent	Total	Ext'	Int'		From	To
Agent Productivity 210	✓	✓	✓	✓	✓	✗	>1-99%	✓	✗
Agent State (Queue) 212	-	-	✓	-	-	-	-	-	-
Agent State (Queue) Time 214	-	-	✓	-	-	-	>1-999[2]	-	-
Agent State (System) 215	-	-	✓	-	-	-	-	-	-
Agent State (System) Time 217	-	-	✓	-	-	-	-	-	-
Agents ACW 218	✓	✓	-	✓	-	-	>1-150	-	-
Agents Available 219	✓	✓	-	✓	-	-	<1-150	-	-
Agents Call Share 220	-	-	✓	-	-	-	-	-	✓
Agents Logged On 221	✓	✓	-	✓	-	-	<1-150	-	-
Agents Present 222	✓	✓	-	✓	-	-	-	-	-
Agents Ringing 223	✓	✓	-	✓	✓	✓	-	-	✗
Answered Calls 224	✓	✓	✓	✓	✓	✓	>1-999	✗	✗/✓[3]
Answered External (Non-Queue) 226	-	-	✓	-	✓	-	>1-999	-	-
Answered Internal (Non-Queue) 227	-	-	✓	-	-	✓	>1-999	-	-
Answered Internal (Queue) 228	✓	✓	✓	✓	-	✓	>1-999	✗	✗
Average Answer % 229	✓	✓	✓	✓	✓	✓	<1-100%	✓	✗
Average Answer Time 231	✓	✓	✓	✓	✓	✓	>1-600	✓	✗
Average Wait Time 233	✓	✓	-	✓	✓	✓	>1-600	✓	✗
Busy Not Available 234	✓	✓	-	✓	-	-	>1-150	-	-
Calls Waiting 235	✓	✓	-	✓	✓	✓	>1-999	✗	✓
Current Wait Time 237	✓	✓	-	✓	✓	✓	>1-600	✓	✓
Grade of Service 238	✓	✓	-	✓	✓	✓	<1-100%	✓	✗
Internal Made 240	-	-	✓	-	-	✓	>1-999	-	-
Longest Wait Time 241	✓	✓	-	✓	✓	✓	>1-600	✓	✗
Lost Calls 243	✓	✓	✓	✓	✓	✓	>1-999	✗	✗/✓[3]
New Messages 245	✓	✓	-	✓	-	-	>1-999	-	-
No Answer 246	✓	✓	✓	✓	✓	✓	>1-999	✗	✗/✓[3]
Outbound Calls (External) 248	-	-	✓	-	✓	-	>1-999	-	-
Overflowed Answered 249	✓	✓	-	✓	✓	✓	>1- 999	✓	✗
Overflowed Calls 247	✓	✓	-	✓	✓	✓	>1-999	✓	✗
Overflowed Calls Waiting 250	✓	✓	-	✓	✓	✓	>1-999	✓	✗
Overflowed Lost 252	✓	✓	-	✓	✓	✓	>1-999	✓	✗
Presented Calls 253	✓	✓	✓	✓	✓	✓	>1-999	✓	✗/✓[3]
Queue State 255	-	✓	-	-	-	-	-	-	-
Queue State Time 256	-	✓	-	-	-	-	>1-600[2]	-	-
Routed to Other 257	✓	✓	✓	✓	✓	✓	>1-999	✓	✗
Routed to Voicemail 258	✓	✓	✓	✓	✓	✓	>1-999	✓	✗
Talk Average 259	-	✓	✓	✓	✓	✗	>1-600	✗	✗/✓[3]
Talk Inbound 260	✓	✓	✓	✓	✓	✗	-	✗	✗/✓[3]
Talk Inbound Average 261	✓	✓	✓	✓	✓	✗	-	✗	✗/✓[3]
Talk Internal 262	✓	✓	✓	✓	✗	✓	-	✓	✗
Talk Outbound 263	✓	✓	✓	✓	✓	✗	-	-	-
Talk Outbound Average 264	✓	✓	✓	✓	✓	✗	>1-600	-	-
Talk Total 265	✓	✓	✓	✓	✓	✗	-	✗	✗/✓[3]
Transferred 266	✓	✓	✓	✓	✓	✓	>1-999	✓	✗

1. With statistics that support both internal and or external calls, the selection of which call types are reported is selectable through the statistic's settings.
2. For **Agent State (Queue) Time** and **Queue State Time**, separate time thresholds can be set for each state that has been selected to alarm.
3. ✗/✓* For **Answered Calls**, **Lost Calls, No Answer**, **Talk Inbound**, **Talk Inbound Average**, **Talk Total**, **Talk Average**, and **Presented Calls** queue calls that overflowed to a queue are included in agent statistics but not in queue statistics.

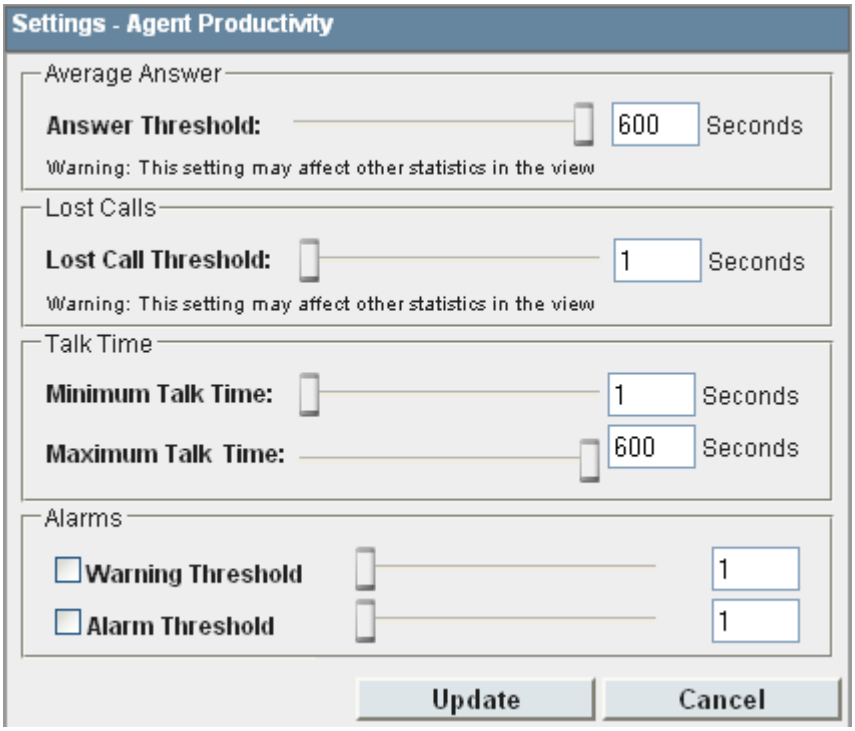
4. This documentation uses the full name for IP Office Customer Call Reporter statistics and states. However, for the display in browser screens, the IP Office Customer Call Reporter can use abbreviated names. The statistics however remain the same.

6.2 Agent Productivity

- This statistic is available for the system, queues, and agents.
- For a queue it shows the number of queue calls answered within a set of service criteria as a percentage of all queue calls presented.
- For an agent it shows the percentage of calls an agent has handled within a set of service criteria over all calls.
- It excludes calls disconnected before the Lost Calls threshold setting, measured from when the call was presented to the queue.
- It excludes direct calls presented to the agents and outbound external calls.
- It includes lost calls.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	-	✗	✓	✓/✗
Agent	✓	-	✗	✓	✓/✗

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Answer Threshold:** *Default = 600 seconds, Range = 1 to 600 seconds.*
  Used for statistics calculated as a percentage of calls answered within the set time out of all calls presented. Sets the target time for calls to be answered from when they are first presented to the queue or agent. Note that for agents, calls are only presented for the queue's no answer time before being presented to the next agent. Note that this setting is shared between the **Agent Productivity** 210, **Average Answer %** 229 and **Grade of Service** 238 statistics in the same monitor or wallboard view.

- **Lost Calls Threshold:** *Default = 1 second, Range = 1 to 600 seconds*.
  Lost calls are calls where the caller disconnects before the call is answered. This threshold sets the minimum time in seconds for a call to be available to be answered before it will be counted as lost. Lost calls are not included in the calculation of this statistic. Note that this setting is shared between the **Agent Productivity** 210 and **Grade of Service** 238 statistics in the same monitor or wallboard view.

- **Talk Time**
  These settings define the minimum and maximum talk time targets for a call to be counted towards improving an agent's productivity. Talk time includes hold and after call work.

  - **Minimum:** *Default = 60 seconds. Range 1 to 600 seconds.*
    The minimum target for call talk time.

  - **Maximum:** *Default = 600 seconds. Range 1 to 3600 seconds.*
    The maximum target for call talk time.

- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

Notes:

- The answer time is measured from the point when a call is presented to an agent. It does not include any previous ring time for the call.
- When calculated for a queue, the calculation is a weighted average 347 of the agents performance for that Queue.
- For the purposes of this statistic, calls presented to the agent and then answered by voicemail or presented to another agent due to the no answer timeout are included in the call count. Calls taken from the agent and answered by another user, for example by call pickup, are not included.
- Each time the same call is presented to an agent it is counted in their Agent Productivity.

6.3 Agent State (Queue)

- This statistic is only available for agents.
- It shows the current state of each agent in the selected queue.
- The related statistic Agent State (Queue) Time 214 can be used to show how long each agent has been in their current state.

Possible agent states are:

State	Meaning	State	Meaning
Available	Logged in but not on a call.	**Logged Out**	The agent has logged out.
Ringing	Alerting with a queue call.	**Busy**	On a call presented to the queue.
Ring Alt-Q	Alerting with a call for another queue of which they are a member or that has overflowed.	**Busy Alt-Q**	On a call from another queue of which they are a member or that has overflowed.
Ring Non-Q	Alerting with a non-queue call.	**Busy Non-Q**	On a direct call 339 or a picked up call.
Present	Logged in but not enabled for this queue.	**ACW**	In the After Call Work state.
Holding	With a call on hold.	**Busy Not Available**	In the Busy Not Available state.

Additional Information
Statistic can include additional information, indicated by a red corner icon. Place your cursor over the icon to display the addition information. This type of information is updated approximately every 5 seconds.

Information	Shown for:
Number	Displayed for ringing, busy and hold states.
Internal or **External**	
Inbound or **Outbound**	
Busy NA Reason	Displayed for the **Busy Not Available** state. The individual reasons are configured by the IP Office telephone system maintainer. A reason is selected by the agent when going into **Busy Not Available** state.

Statistic Settings
This statistic has no customizable settings.



Description of Agent States

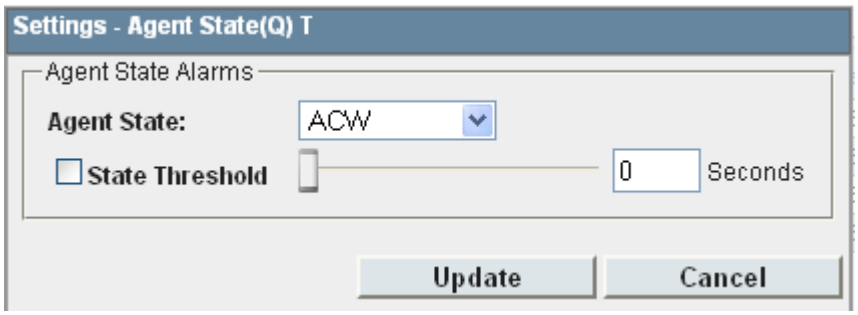
The following agent states can be reported for a queue:

Available	This agent state is reported when an agent is logged in and is not in any other state. That is, when the agent is available to receive and answer queue calls.
Busy	This agent state is reported when the agent answers and is connected to a call to a queue of which they are a member.
ACW	After Call Work indicates that the agent is not available to receive queue calls 343 while they perform some other call related activity. Typically this is used for activities such as call records and data entry that need to be completed before handling another call. A number of controls are available for After Call Work 141. Agents can be configured to be automatically put into ACW state after a queue call or else they can manually select to enter the state when required. Note: The Wrap-Up 347 feature briefly applied to the end of all calls including queue calls is also reported as **After Call Work** state.
Busy Alt-Q	This agent state is reported when, while viewing the agent's status in one queue of which they are a member, the agent is connected to a call belonging to another queue of which they are a member. It is also used when the agent is connected to a call that has overflowed from a queue.
Busy Not Available	This agent state indicates that the agent is not available to receive calls while they perform a non-call related activity such as attending a meeting. This state can be selected by an agent using the DND or SAC button on their telephone, see Agent Telephone Controls 138. This also requires the agent to select one of the reason codes 344 displayed on their telephone to indicate the reason they are going into the **Busy Not Available** state. If this state is enabled while a queue call is being presented, the call will go to the next available agent and cause the **No Answer** statistic for the agent and queue to be incremented.
Busy Non-Q	This agent state is reported when the agent answers a call that was not targeted to the queue to which they belong. It is also reported when an agent makes a call.
Holding	This agent state is reported when an agent has a call on hold.
Logged Out	This agent state is reported when an agent has logged out 140 from the telephone system. Note that this is the default state reported by IP Office Customer Call Reporter if it cannot determine the exact state, for example when restarting.
Disabled from Queue	This agent state is reported when an agent is logged in but their membership of the particular queue has been disabled. In this state they will not be presented with calls targeted to that queue. The agent's state for other queues will still be Available 338.
Ringing	This agent state is reported when the agent is being presented with a call targeted to a queue of which they are a member. If they answer the call their state will change to Busy 338.
Ring Alt-Q	This agent state is reported when the agent is being presented with a call from another queue of which they are a member. If they answer the call their state will change to Busy Alt-Q 338. It is also used when the agent is being presented a call that has overflowed from a queue.
Ring Non-Q	This agent state is reported when the agent is being presented with a call that is not targeted to any queue of which they are a member. If answered the call their state will change to Busy Non-Q 338.

6.4 Agent State (Queue) Time

- This statistic is only available for agents.
- It shows how long the agent has been in their current state for the selected queue.
- The agent's current state can be shown by the related statistic Agent State (Queue) 212.

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given. Different thresholds times can be set for each of the states selectable in the drop down list.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.5 Agent State (System)

- This statistic is only available for agents.
- It shows the agent activity across all queues to which the agent belongs, ie. the whole system.
- The related statistic Agent State (System) Time 217 can be used to show how long each agent has been in their current state.

The possible agent states on the system are listed below. They are listed in order of priority, from the highest priority downwards. The priority is important if the agent belongs to several queues and has a different state in each of those queues.

State	Meaning
Busy	This agent state is reported when the agent answers and is connected to a call to a queue of which they are a member.
Busy Non-Q	This agent state is reported when the agent answers a call that was not targeted to the queue to which they belong. It is also reported when an agent makes a call.
Holding	This agent state is reported when an agent has a call on hold.
Ringing	This agent state is reported when the agent is being presented with a call targeted to a queue of which they are a member. If they answer the call their state will change to Busy 338.
Ring Non-Q	This agent state is reported when the agent is being presented with a call that is not targeted to any queue of which they are a member. If answered the call their state will change to Busy Non-Q 338.
Busy Not Available	This agent state indicates that the agent is not available to receive calls while they perform a non-call related activity such as attending a meeting. This state can be selected by an agent using the DND or SAC button on their telephone, see Agent Telephone Controls 138. This also requires the agent to select one of the reason codes 344 displayed on their telephone to indicate the reason they are going into the **Busy Not Available** state. If this state is enabled while a queue call is being presented, the call will go to the next available agent and cause the **No Answer** statistic for the agent and queue to be incremented.
Available	This agent state is reported when an agent is logged in and is not in any other state. That is, when the agent is available to receive and answer queue calls.
ACW	After Call Work indicates that the agent is not available to receive queue calls 343 while they perform some other call related activity. Typically this is used for activities such as call records and data entry that need to be completed before handling another call. A number of controls are available for After Call Work 141. Agents can be configured to be automatically put into ACW state after a queue call or else they can manually select to enter the state when required. Note: The Wrap-Up 347 feature briefly applied to the end of all calls including queue calls is also reported as **After Call Work** state.
Present	This agent state is reported when an agent is logged in but their membership of the particular queue has been disabled. In this state they will not be presented with calls targeted to that queue. The agent's state for other queues will still be Available 338.
Logged Out	This agent state is reported when an agent has logged out 140 from the telephone system. Note that this is the default state reported by IP Office Customer Call Reporter if it cannot determine the exact state, for example when restarting.

Additional Information
Statistic can include additional information, indicated by a red corner icon. Place your cursor over the icon to display the addition information. This type of information is updated approximately every 5 seconds.

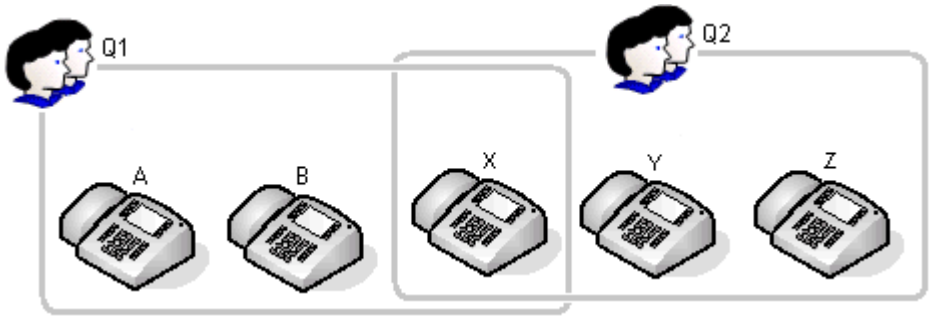
Information	Shown for:
Number	Displayed for ringing, busy and hold states.
Internal or **External**	
Inbound or **Outbound**	
Busy NA Reason	Displayed for the **Busy Not Available** state. The individual reasons are configured by the IP Office telephone system maintainer. A reason is selected by the agent when going into **Busy Not Available** state.

Statistic Settings
This statistic has no customizable settings.

Example of How Agent State Queue is Determined

When an agent is a member of more than one queue, their state for each queue may differ. The example below shows how the different state for different queues is resolved into a single system state.

Agent X is a member of 2 queues; ***Q1*** and ***Q2***. In the following scenarios we see how Agent X's state is reported for each of those queues using the **Agent State (Queue)** statistic and for the systems as a whole using the **Agent State (System)** statistic.



Scenarios		Agent State (Queue)		Agent State (System)
		Q1	Q2	
Starting Work	• Agent X is not logged in at an extension.	*Logged Out*	*Logged Out*	*Logged Out*
	• Agent X logs in to an extension.	*Available*	*Available*	*Available*
Answering a Queue Call	• A call to the queue Q1 is presented to Agent X.	*Ringing*	*Ring Alt-Q*	*Ringing*
	• Agent X answers the call.	*Busy*	*Busy Alt-Q*	*Busy*
	• Agent X puts the call on hold.	*Holding*	*Busy Alt-Q*	*Busy*
	• Agent X reconnects the call.	*Busy*	*Busy Alt-Q*	*Busy*
	• The call ends. The system automatically applies a short period of wrap up 347, usually 2 seconds.	*After Call Work*	*After Call Work*	*After Call Work*
	• Since it was a queue call the system may then automatically apply After Call Work 336.	*After Call Work*	*After Call Work*	*After Call Work*
	• The system automatically ends After Call Work (by default after 10 seconds).	*Available*	*Available*	*Available*
Answering a Direct Call	• A call is targeted directly to Agent X rather than a queue.	*Ring Non-Q*	*Ring Non-Q*	*Ring Non-Q*
	• Agent X answers the call.	*Busy Non-Q*	*Busy Non-Q*	*Busy Non-Q*
	• The call ends. The system automatically applies a short period of wrap up 347, usually 2 seconds.	*After Call Work*	*After Call Work*	*After Call Work*
	• The system automatically ends wrap up.	*Available*	*Available*	*Available*
Making a Call	• Agent X makes a call.	*Busy Non-Q*	*Busy Non-Q*	*Busy Non-Q*
	• The call ends. The system automatically applies a short period of wrap up 347, usually 2 seconds.	*After Call Work*	*After Call Work*	*After Call Work*
	• The system automatically ends wrap up.	*Available*	*Available*	*Available*
Doing Other Work	• Agent X selects Busy Not Available.	*Busy Not Available*	*Busy Not Available*	*Busy Not Available*
	• When completed, Agent X ends Busy Not Available.	*Available*	*Available*	*Available*
Enabling/ Disabling Queue Membership	• Agent X disables their membership of the Q1 queue.	*Present*	*Available*	*Available*
	• Agent X disables their membership of the Q2 queue. They are now disabled from all queues.	*Present*	*Present*	*Present*
	• Agent X re-enables their membership of both queues.	*Available*	*Available*	*Available*
Ending Work	• Agent X logs out from the extension.	*Logged out*	*Logged out*	*Logged out*

6.6 Agent State (System) Time

- This statistic is only available for agents.
- It shows how long the agent has been in their current system state.
- The agent's current state can be shown by the related statistic Agent State (System) 215.

Statistic Settings
This statistic has no customizable settings.



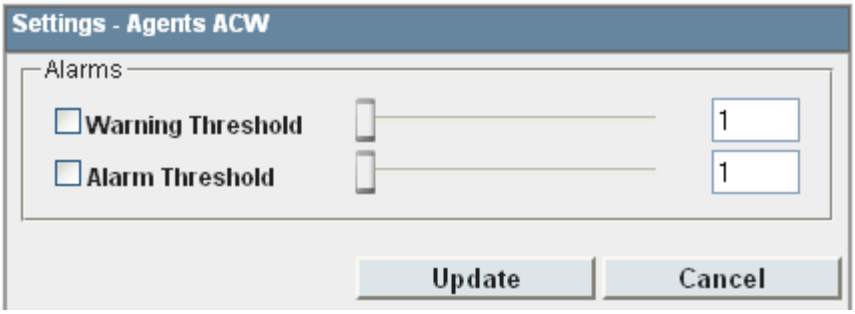
6.7 Agents ACW

- This statistic is available for the system and queues.
- Its shows the number of agents who are currently in the After Call Work (ACW) state.
- For users who previously used CCC, the ACW state is similar to Busy Wrap Up.

After Call Work indicates that the agent is not available to receive queue calls 343 while they perform some other call related activity. Typically this is used for activities such as call records and data entry that need to be completed before handling another call. A number of controls are available for After Call Work 141. Agents can be configured to be automatically put into ACW state after a queue call or else they can manually select to enter the state when required.

Note: The Wrap-Up 347 feature briefly applied to the end of all calls including queue calls is also reported as **After Call Work** state.

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

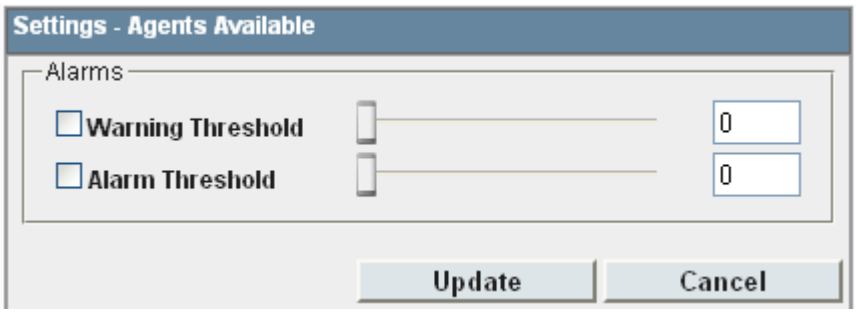
  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.8 Agents Available

- This statistic is available for the system and queues.
- It shows the number of agents in the queue who are currently available to answer calls.

This agent state is reported when an agent is logged in and is not in any other state. That is, when the agent is available to receive and answer queue calls.

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Alarms**
  Use these controls to select whether a warning or an alarm is given for the statistic. You can also set the threshold levels below which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be higher than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be lower that the warning threshold.

6.9 Agents Call Share

- This statistic is only available for agents.
- It shows the percentage of queue calls [343] answered by the agent out of all queue calls answered by the agents in the queue.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	-	-	-	-	-/-
Agent	✓	✗	✓	✓	-/✓

Example
There are 4 agents in a Sales group. Together they answer 200 calls. The number of calls answered by each agent can be shown as a percentage of the total calls answered.

- Agent 1 answers 62 calls = Call Share 31%.
- Agent 2 answers 56 calls = Call Share 28%.
- Agent 3 answers 58 calls = Call Share 29%.
- Agent 4 answers 24 calls = Call Share 12%.

Statistic Settings
This statistic has no customizable settings.



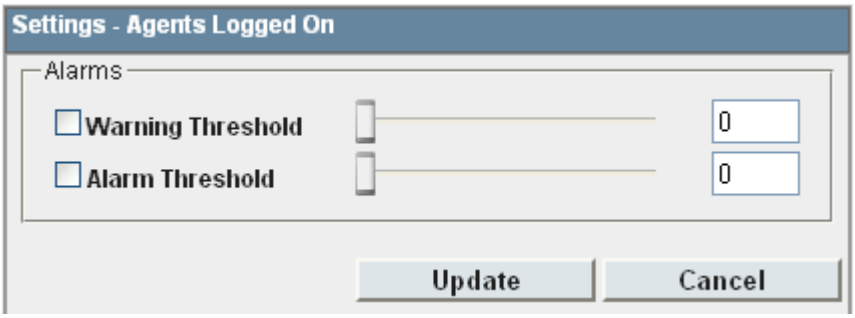
6.10 Agents Logged On

- This statistic is available for the system and queues.
- It shows the number of agents who are members of the queue and are currently logged in.
- When logged in an agent can also be in other states.

An agent is "logged in" when they use an extension on the telephone system to enter their extension number and login code. Their telephone settings are then applied to that extension and they are then able to make and receive calls including calls targeted to queue of which they are members.

Agents can log in to an extension either by pressing the Login button if displayed or dialing a login short code. The default short code is *35*<agent extension number>*<agent login code>#.

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



Alarms
Use these controls to select whether a warning or an alarm is given for the statistic. You can also set the threshold levels below which the warning or alarm is given.

- When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	**Warning** (Orange)	**Alarm** (Red)	**Acknowledged** (Blue)

- Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
- The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
- Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
- Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
- Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.

- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be higher than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be lower that the warning threshold.

6.11 Agents Present

- This statistic is available for the system and queues.
- It shows the number of agents who are logged in but whose membership of the queue is currently disabled.

This agent state is reported when an agent is logged in but their membership of the particular queue has been disabled. In this state they will not be presented with calls targeted to that queue. The agent's state for other queues will still be Available 338.

Statistic Settings
This statistic has no customizable settings.



6.12 Agents Ringing

- This statistic is available for the system and queues.
- It shows the number of agents with queue calls [343] ringing but not yet answered.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	✗	✓	✓	✗/✗
Agent	-	-	-	-	-/-

Statistic Settings
This statistic has no customizable settings.

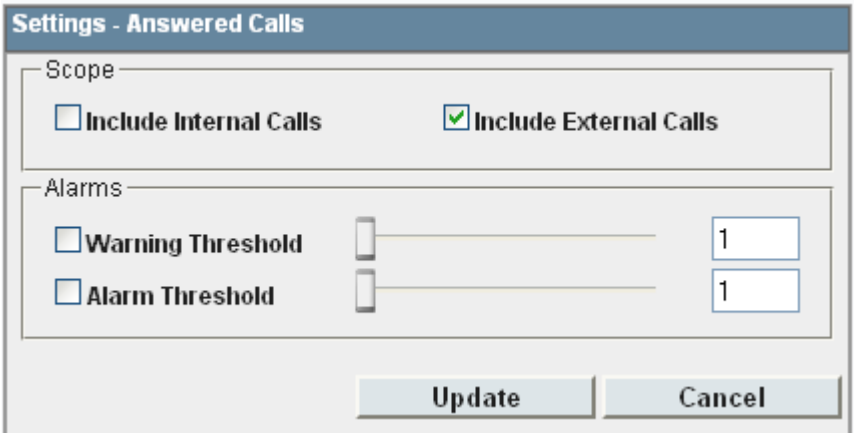


6.13 Answered Calls

- This statistic is available for the system, queues, and agents.
- It shows the number of queue calls 343 that has been answered by the agents in the queue or the agent being reported on.
- It does not include direct calls answered by agents.
- If a call that has overflowed is answered by an agent, it is reported as **Overflowed Answered** for the queue and as **Answered** for the agent.
- It does not include queue calls answered by non-queue members using methods such as call pickup.
- It does not include calls that go to voicemail.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	✗	*Optional*	*Optional*	✗/✗
Agent	✓	✗	*Optional*	*Optional*	–/✓

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Scope**
  Supervisors can select which types of calls are included in the calculation of this statistic. By default external calls are included.
  - **Include Internal Calls:** Select to include internal calls in the statistic.
  - **Include External Calls:** Select to include external calls in the statistic.
- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.

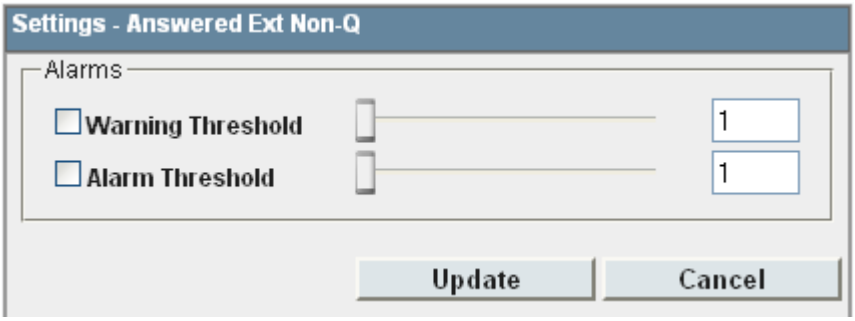
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.14 Answered External (Non-Queue)

- This statistic is only available for agents.
- It shows the sum of the number of external inbound calls that are:
  - targeted directly to an agent and answered by the agent.
  - targeted to another queue and picked up by the agent using call pickup.
  - targeted directly to another agent and picked up by the agent using call pickup.
- It does not include queue calls to a queue of which the agent is a member.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	-	-	-	-	-/-
Agent	✗	✓	✗	✓	-/-

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

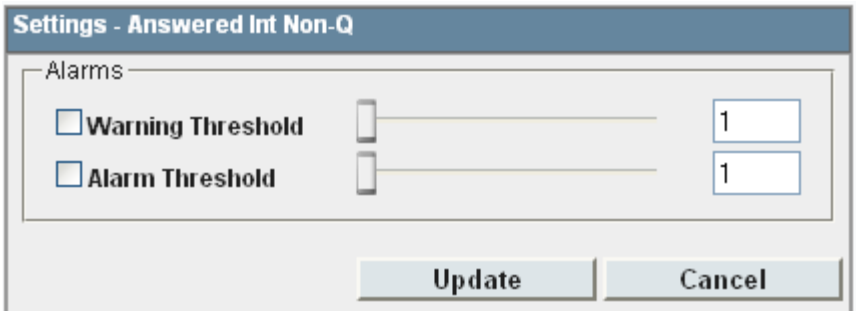
  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.15 Answered Internal (Non-Queue)

- This statistic is only available for agents.
- It shows the number of internal inbound calls that are targeted directly to an agent and answered by the agent.
- It includes the number of internal calls targeted to another queue and answered by the agent using call pickup.
- It includes the number of internal calls targeted directly to another agent and answered by the agent using call pickup.
- It does not includes queue calls to a queue of which the agent is a member.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	-	-	-	-	-/-
Agent	✗	✓	✓	✗	✗/✗

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

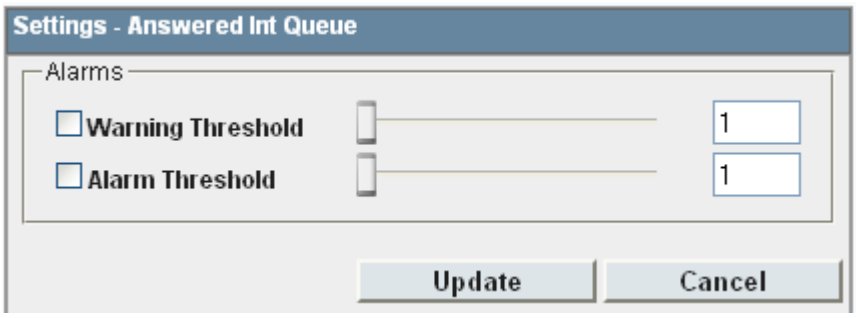
  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.16 Answered Internal (Queue)

- This statistic is available for the system, queues, and agents.
- It shows the number of internal calls to the queue that were then answered by the agents in the queue or the agent being reported on.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	✗	✓	✗	✗/✗
Agent	✓	✗	✓	✗	–/✓

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

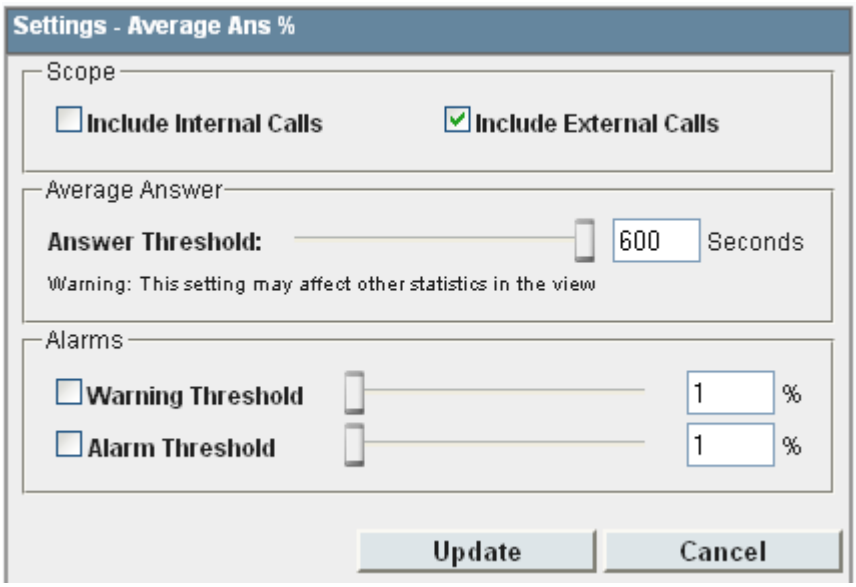
  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.17 Average Answer %

- This statistic is available for the system, queues, and agents.
- It shows the number of queue calls [343] answered by the queue within the specified answer threshold time, divided by the total number of calls answered.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	✗	*Optional*	*Optional*	✓/✗
Agent	✓	✗	*Optional*	*Optional*	✓/✗

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset [111]. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Scope**
  Supervisors can select which types of calls are included in the calculation of this statistic. By default external calls are included.
  - **Include Internal Calls:** Select to include internal calls in the statistic.
  - **Include External Calls:** Select to include external calls in the statistic.
- **Answer Threshold:** *Default = 600 seconds, Range = 1 to 600 seconds.*
  Used for statistics calculated as a percentage of calls answered within the set time out of all calls presented. Sets the target time for calls to be answered from when they are first presented to the queue or agent. Note that for agents, calls are only presented for the queue's no answer time before being presented to the next agent. Note that this setting is shared between the **Agent Productivity** [210], **Average Answer %** [229] and **Grade of Service** [238] statistics in the same monitor or wallboard view.
- **Alarms**
  Use these controls to select whether a warning or an alarm is given for the statistic. You can also set the threshold levels below which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.

- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be higher than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be lower that the warning threshold.

Transferred Call and Performance Statistics

For performance statistics, **Average Answer Time**, **Average Answer %** and **Grade of Service**, transferred calls are treated as follows:

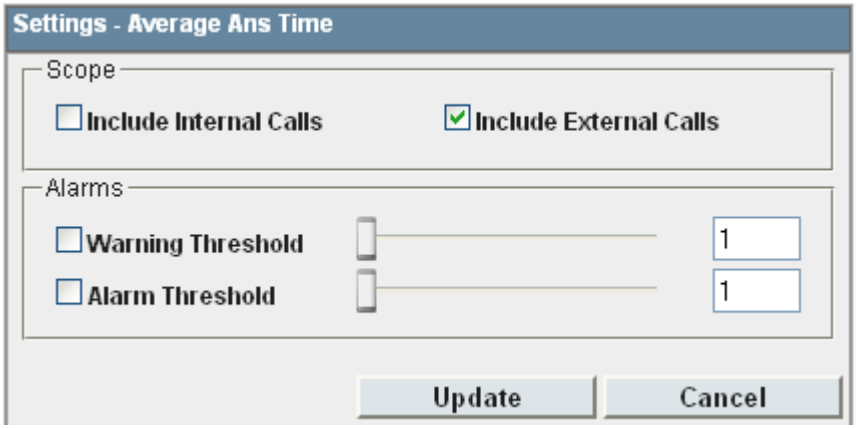
- For supervised transfers, the duration of the enquiry call is treated as the ringing time of the transferred call. Note also that the ring time of the enquiry call is included a separate answered call value.
- For unsupervised transfers, the transferred call is treated the same as a call targeted directly to the queue or agent.

6.18 Average Answer Time

- This statistic is available for the system, queues, and agents.
- It shows the sum of answer times divided by the number of queue calls answered by the queue or by the agent being reported.
- The answer time is measured from the time when the call arrives at the target (queue or agent). It does not include t he delay between the time when a call is presented to a Hunt Group and the time when the call arrives at the target.
- When calculated for an agent, the statistic is only based on the calls that the agent handled on behalf of the hunt group selected in the view.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	✗	*Optional*	*Optional*	✓/✗
Agent	✓	✗	*Optional*	*Optional*	✓/✗

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Scope**
  Supervisors can select which types of calls are included in the calculation of this statistic. By default external calls are included.
  - **Include Internal Calls:** Select to include internal calls in the statistic.
  - **Include External Calls:** Select to include external calls in the statistic.
- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

Transferred Call and Performance Statistics

For performance statistics, **Average Answer Time**, **Average Answer %** and **Grade of Service**, transferred calls are treated as follows:

- For supervised transfers, the duration of the enquiry call is treated as the ringing time of the transferred call. Note also that the ring time of the enquiry call is included a separate answered call value.
- For unsupervised transfers, the transferred call is treated the same as a call targeted directly to the queue or agent.

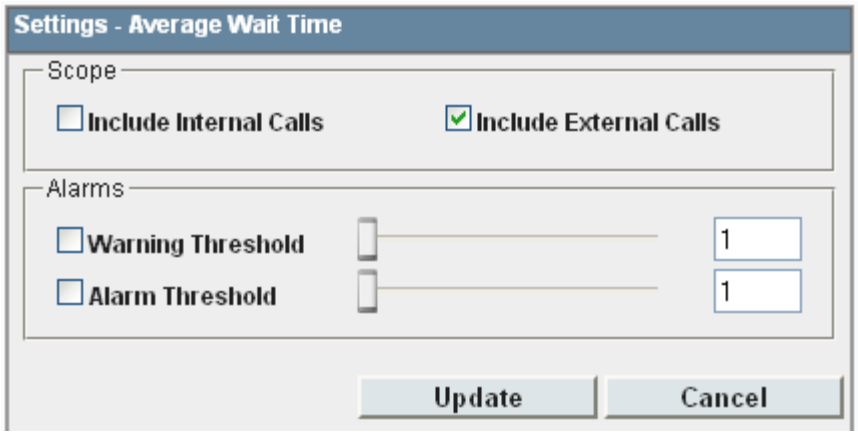
6.19 Average Wait Time

- This statistic is available for the system and queues.
- Average waiting time of calls.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	✗	*Optional*	*Optional*	✓/✗
Agent	✗	✗	-	-	-/-

- For supervised transfers (including transfers using park 329), the duration the call is held or parked is included in the **Average Wait Time** 231 and **Longest Wait Time** 241 calculations for the queue to which the call is transferred.

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Scope**
  Supervisors can select which types of calls are included in the calculation of this statistic. By default external calls are included.
  - **Include Internal Calls:** Select to include internal calls in the statistic.
  - **Include External Calls:** Select to include external calls in the statistic.
- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

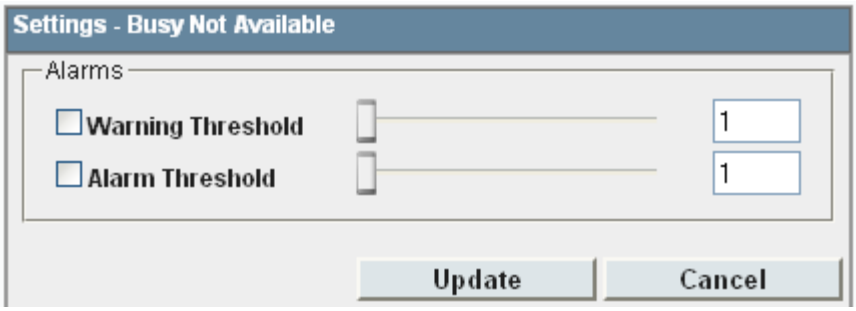
6.20 Busy Not Available

- This statistic is available for the system and queues.
- It shows the total number of agents in the queue who have currently indicated they are Busy Not Available 338.
- Busy Not Available is a state selected by an agent when they need to stop receiving queue calls to do some non-call related activity.

This agent state indicates that the agent is not available to receive calls while they perform a non-call related activity such as attending a meeting. This state can be selected by an agent using the DND or SAC button on their telephone, see Agent Telephone Controls 138. This also requires the agent to select one of the reason codes 344 displayed on their telephone to indicate the reason they are going into the **Busy Not Available** state.

If this state is enabled while a queue call is being presented, the call will go to the next available agent and cause the **No Answer** statistic for the agent and queue to be incremented.

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	**Warning** (Orange)	**Alarm** (Red)	**Acknowledged** (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.21 Calls Waiting

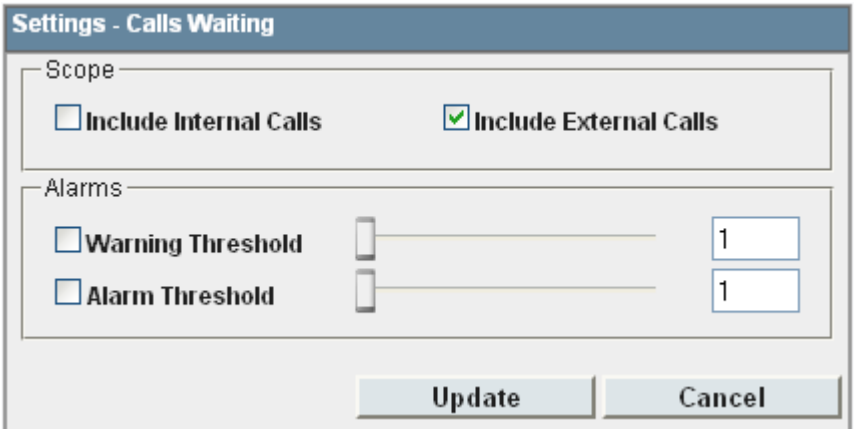
- This statistic is available for the system and queues.
- It shows the number of calls targeted to the queue that are waiting to be answered by the agents in the queue or the agent being reported on.
- It includes calls currently ringing at agent telephones.
- Calls that overflow from the queue and are still waiting to be answered are reported using Overflowed Calls Waiting 250.

Call types	Queue Calls	Direct Call	Internal Calls	External Calls	Overflowed from/to
Queue	✓	✗	*Optional*	*Optional*	✗/✓
Agent	-	-	-	-	-/-

Additional Information
Statistic can include additional information, indicated by a red corner icon. Place your cursor over the icon to display the addition information. This type of information is updated approximately every 5 seconds.

- The additional information provided by this statistic is the peak waiting time, the average waiting time and the current longest waiting time.
- The information is shown for internal and or external calls depending on the statistic settings.

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Scope**
  Supervisors can select which types of calls are included in the calculation of this statistic. By default external calls are included.
  - **Include Internal Calls:** Select to include internal calls in the statistic.
  - **Include External Calls:** Select to include external calls in the statistic.
- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.

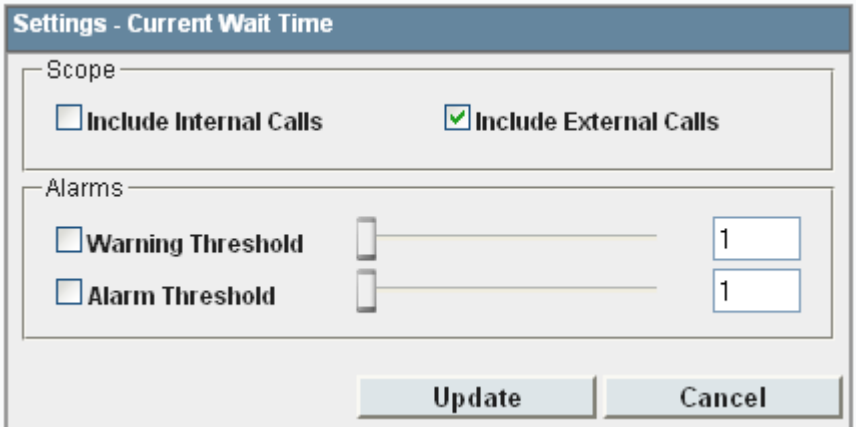
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.22 Current Wait Time

- This statistic is available for the system and queues.
- Time of the longest currently waiting call.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	✗	*Optional*	*Optional*	✓/✓
Agent	✗	✗	*Optional*	*Optional*	-/-

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Scope**
  Supervisors can select which types of calls are included in the calculation of this statistic. By default external calls are included.
  - **Include Internal Calls:** Select to include internal calls in the statistic.
  - **Include External Calls:** Select to include external calls in the statistic.
- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

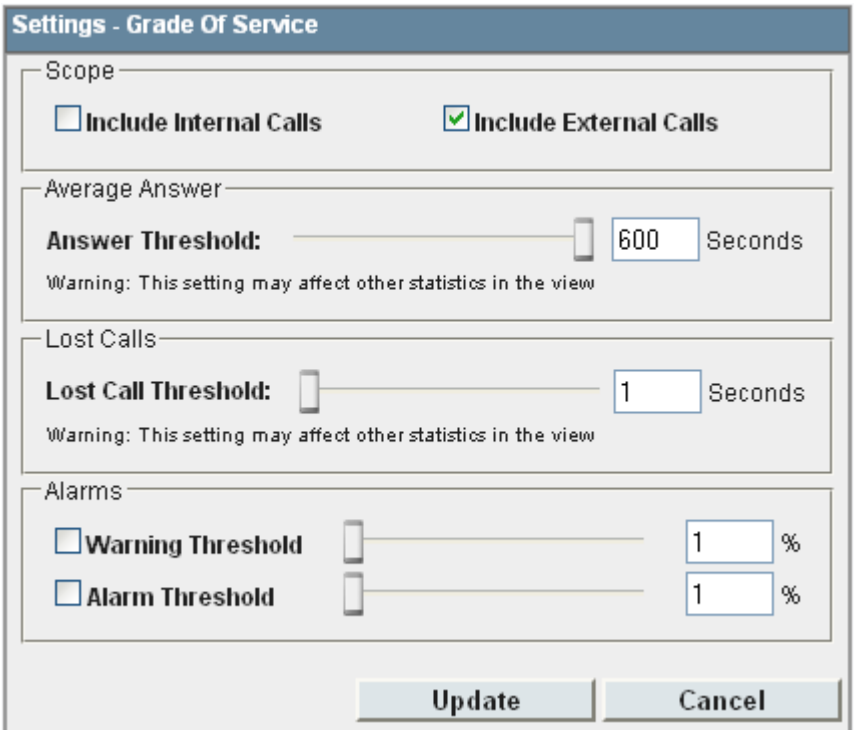
6.23 Grade of Service

- This statistic is available for the system and queues.
- It shows the number of queue calls answered within the defined answer threshold as a percentage of all queue calls presented.
- It excludes calls where the caller disconnects before the statistic's **Lost Calls Threshold** setting, measured from when the call was presented to the queue.
- It includes calls that become lost calls.
- It does not include calls that were routed elsewhere (**Routed to Other**) or to voicemail (**Routed to Voicemail**).

Call types	Queue Calls	Direct Call	Internal Calls	External Calls	Overflowed from/to
Queue	✓	✗	*Optional*	*Optional*	✓/✗
Agent	-	-	-	-	-/-

Example
A supervisor has specified that calls should be answered within 30 seconds. 20 calls into a queue were answered within the target time, 4 calls were answered after 30 seconds and 1 call was lost. The calculation would be 20 /25 = 0.8. The Grade of Service therefore is 80%.

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Scope**
  Supervisors can select which types of calls are included in the calculation of this statistic. By default external calls are included.
  - **Include Internal Calls:** Select to include internal calls in the statistic.
  - **Include External Calls:** Select to include external calls in the statistic.
- **Answer Threshold:** *Default = 600 seconds, Range = 1 to 600 seconds.*
  Used for statistics calculated as a percentage of calls answered within the set time out of all calls presented. Sets the target time for calls to be answered from when they are first presented to the queue or agent. Note that for agents, calls are only presented for the queue's no answer time before being presented to the next agent. Note that this setting is shared between the **Agent Productivity** 210, **Average Answer %** 229 and **Grade of Service** 238 statistics in the same monitor or wallboard view.
-

- **Lost Calls Threshold:** *Default = 1 second, Range = 1 to 600 seconds*.
  Lost calls are calls where the caller disconnects before the call is answered. This threshold sets the minimum time in seconds for a call to be available to be answered before it will be counted as lost. Lost calls are not included in the calculation of this statistic. Note that this setting is shared between the **Agent Productivity** 210 and **Grade of Service** 238 statistics in the same monitor or wallboard view.

- **Alarms**
  Use these controls to select whether a warning or an alarm is given for the statistic. You can also set the threshold levels below which the warning or alarm is given.

  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	**Warning** (Orange)	**Alarm** (Red)	**Acknowledged** (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.

  - **Warning Threshold**
    Select to enable a warning threshold and to set that threshold. The warning threshold must be higher than the alarm threshold.
  - **Alarm Threshold**
    Select to enable an alarm threshold and to set that threshold. The alarm threshold must be lower that the warning threshold.

Transferred Call and Performance Statistics

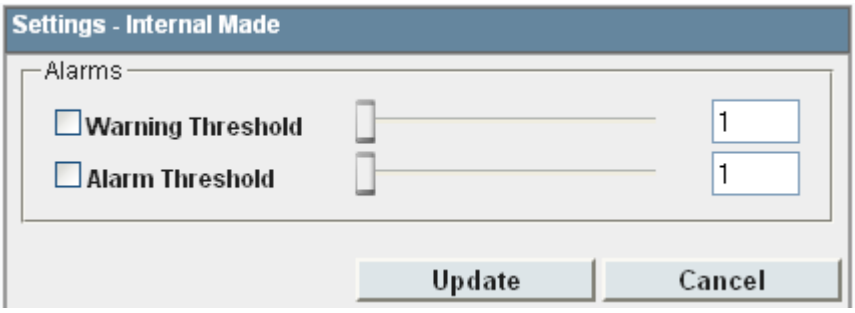
For performance statistics, **Average Answer Time**, **Average Answer %** and **Grade of Service**, transferred calls are treated as follows:

- For supervised transfers, the duration of the enquiry call is treated as the ringing time of the transferred call. Note also that the ring time of the enquiry call is included a separate answered call value.
- For unsupervised transfers, the transferred call is treated the same as a call targeted directly to the queue or agent.

6.24 Internal Made

- This statistic is only available for agents.
- It shows the number of internal calls made by an agent. Only internal calls that are answered are included.

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

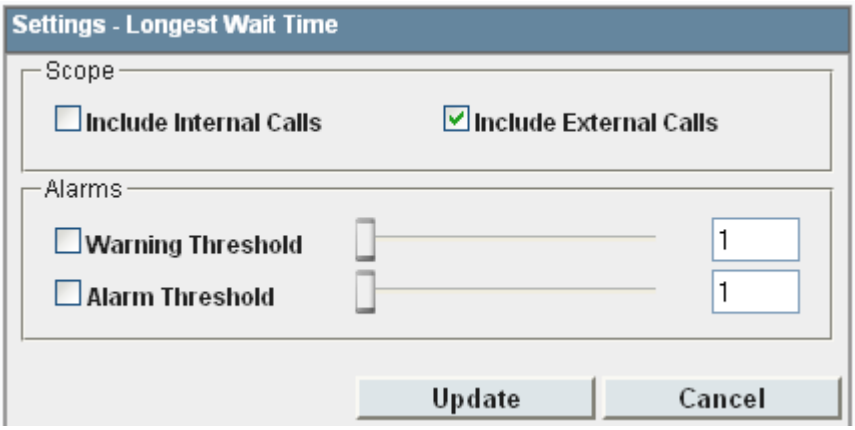
6.25 Longest Wait Time

- This statistic is available for the system and queues.
- Waiting time of the longest waiting call.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	✗	*Optional*	*Optional*	✓/✗
Agent	✗	✗	*Optional*	*Optional*	-/-

- For supervised transfers (including transfers using park [329]), the duration the call is held or parked is included in the **Average Wait Time** [231] and **Longest Wait Time** [241] calculations for the queue to which the call is transferred.
- The value displayed for the **TOTAL** is the longest waiting time.

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset [111]. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Scope**
  Supervisors can select which types of calls are included in the calculation of this statistic. By default external calls are included.
  - **Include Internal Calls:** Select to include internal calls in the statistic.
  - **Include External Calls:** Select to include external calls in the statistic.
- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.26 Lost Calls

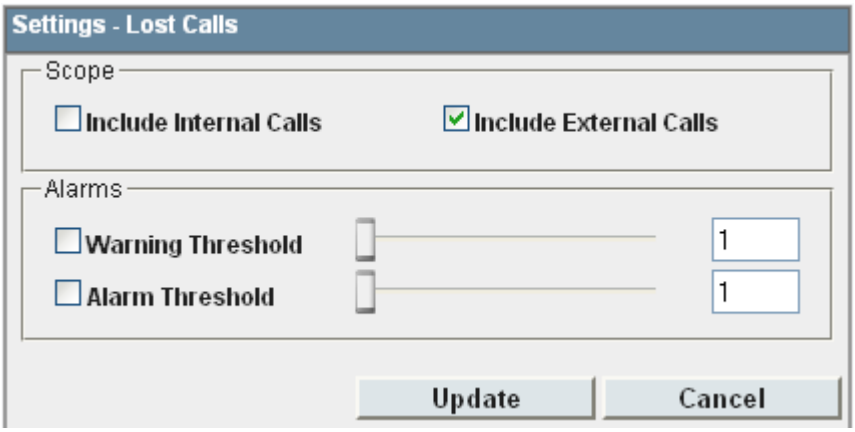
- This statistic is available for the system, queues, and agents.
- It shows the number of queue calls where the caller disconnected before they were answered by an agent in the queue or the agent being reported on.
- Queue calls that are lost are reported as lost against both the queue and against the last agent to which the call was presented.
- Direct calls to an agent that are lost are reported as lost for the agent but not for the queue.
- If a call that has overflowed is lost, it is reported as **Overflowed Lost** for the queue.
- It does not include calls that go to voicemail.

- A lost call is one where the caller disconnects before being answered.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	✗	*Optional*	*Optional*	✗/✗
Agent	✓	✓	*Optional*	*Optional*	✗/✓

- Note that for a queue, the number of lost calls can be higher than the total of lost calls for agent in the queue as calls can be lost before being presented to any agent.

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Scope**
  Supervisors can select which types of calls are included in the calculation of this statistic. By default external calls are included.
  - **Include Internal Calls:** Select to include internal calls in the statistic.
  - **Include External Calls:** Select to include external calls in the statistic.
- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

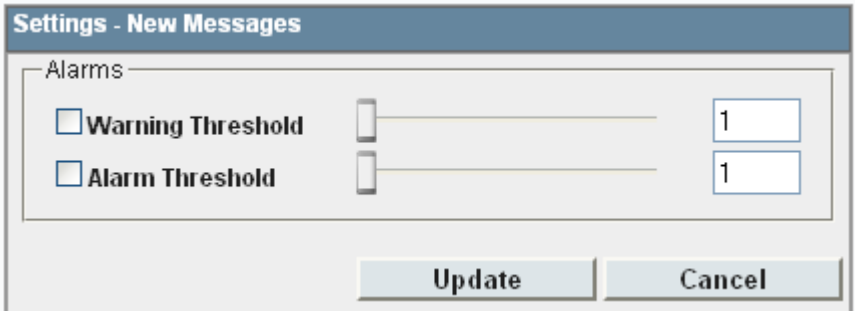
  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.

- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.27 New Messages

- This statistic is available for the system and queues.
- It shows the current number of unread messages in the mailbox of the selected queue.
- This is not an IP Office Customer Call Reporter statistic that can be reset, it is a value reported by the voicemail server providing the mailbox.

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

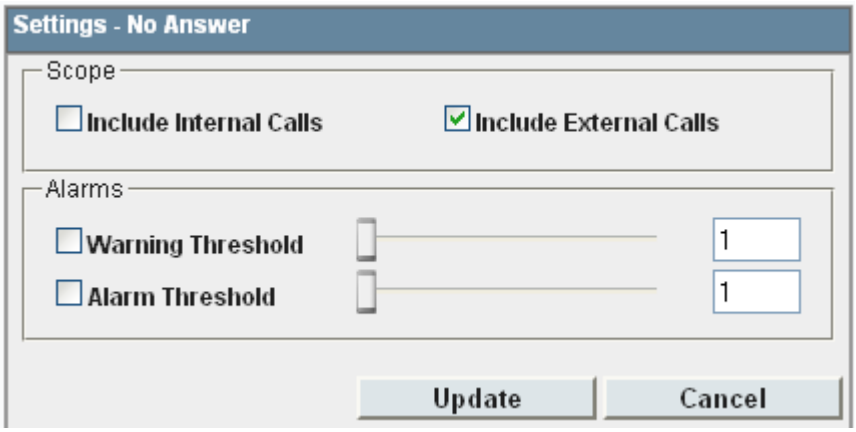
  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.28 No Answer

- This statistic is available for the system, queues and agents.
- For an agent it shows the number of queue calls presented to the agent which rang unanswered for the queue's full no answer time before be presented elsewhere.
- For a queue it shows the total number of no answer events for the agents in the queue.
- For an agent it includes queue calls and queue calls that overflowed to the agent's queue. It does not include non-queue calls.
- If an agent enables Busy Not Available while being presented with a queue call, that will be counted against the agent and queue.

Call types	Queue Calls	Direct Call	Internal Calls	External Calls	Overflowed from/to
Queue	✓	✗	*Optional*	*Optional*	✗/✗
Agent	✓	✗	*Optional*	*Optional*	✗/✓

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Scope**
  Supervisors can select which types of calls are included in the calculation of this statistic. By default external calls are included.
  - **Include Internal Calls:** Select to include internal calls in the statistic.
  - **Include External Calls:** Select to include external calls in the statistic.
- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

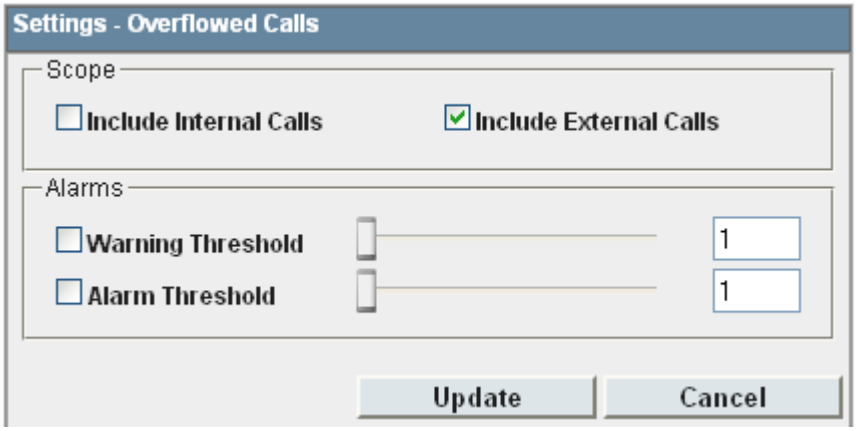
  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
  - **Warning Threshold**
    Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
  - **Alarm Threshold**
    Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.29 Overflowed Calls

- This statistic is available for the system and queues.
- It shows the number of calls that have overflowed from the queue to its overflow destination.
- Once a call has overflowed, it can also be included in the queue's Overflowed Calls Waiting 343, Overflowed Answered 342, and Overflowed Lost 343 statistics.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	✗	*Optional*	*Optional*	✓/✗
Agent	-	-	-	-	-/-

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Scope**
  Supervisors can select which types of calls are included in the calculation of this statistic. By default external calls are included.
  - **Include Internal Calls:** Select to include internal calls in the statistic.
  - **Include External Calls:** Select to include external calls in the statistic.
- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

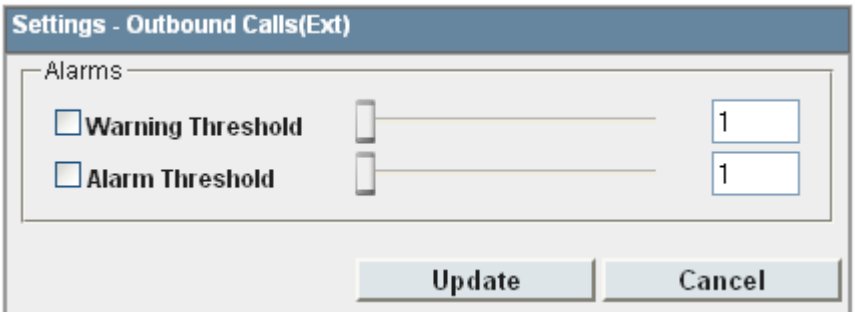
Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.30 Outbound Calls (External)

- This statistic is only available for agents.
- It shows the number of outbound external calls made by the agent.
- As the system uses this statistic to calculate Average Outbound Talk Time (Av Out), the system counts only those outbound external calls that get connected.

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

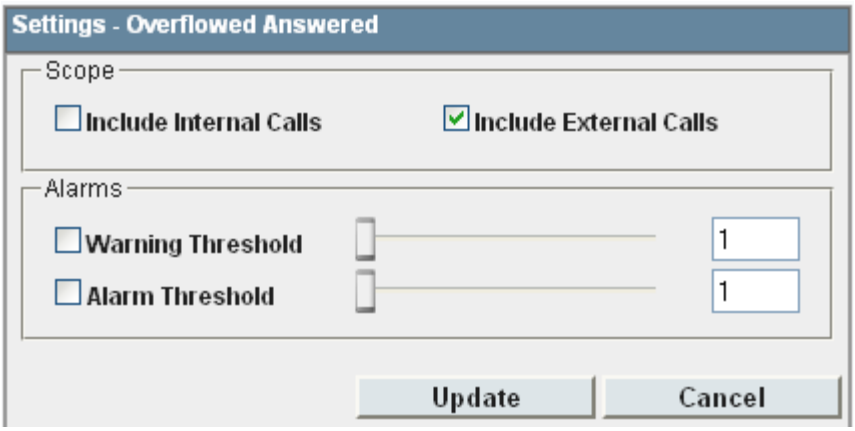
  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.31 Overflowed Answered

- This statistic is available for the system and queues.
- It shows the number of queue calls answered after overflowing to another queue.
- This applies even if the overflowed call is answered by an agent in the queue from which the call overflowed.
- It does not include queue calls answered by methods such as call pickup (use **Routed to Other** 257).
- It does not include calls that go to voicemail.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	✗	*Optional*	*Optional*	✓/✗
Agent	-	-	-	-	-/-

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Scope**
  Supervisors can select which types of calls are included in the calculation of this statistic. By default external calls are included.
  - **Include Internal Calls:** Select to include internal calls in the statistic.
  - **Include External Calls:** Select to include external calls in the statistic.
- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.32 Overflowed Calls Waiting

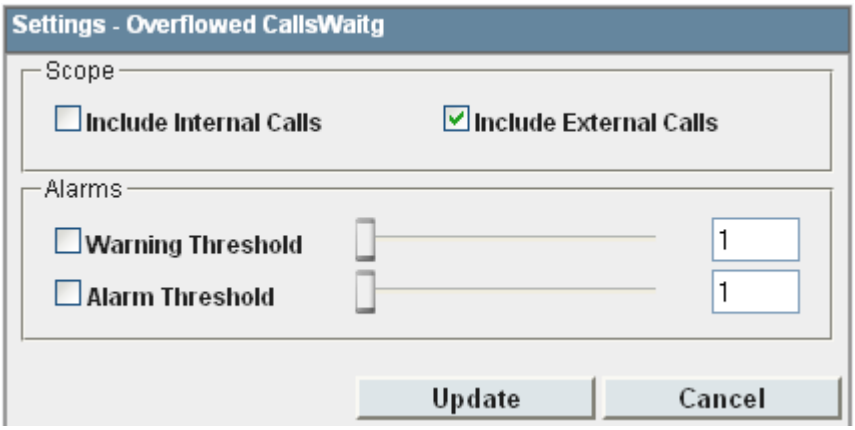
- This statistic is available for the system and queues.
- It shows the number of calls overflowed from the queue and still waiting to be answered.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	✗	*Optional*	*Optional*	✓/✗
Agent	-	-	-	-	-/-

Additional Information
Statistic can include additional information, indicated by a red corner icon. Place your cursor over the icon to display the addition information. This type of information is updated approximately every 5 seconds.

- The additional information provided by this statistic is the peak waiting time, the average waiting time and the current longest waiting time.
- The information is shown for internal and or external calls depending on the statistic settings.

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Scope**
  Supervisors can select which types of calls are included in the calculation of this statistic. By default external calls are included.
  - **Include Internal Calls:** Select to include internal calls in the statistic.
  - **Include External Calls:** Select to include external calls in the statistic.
- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.

- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

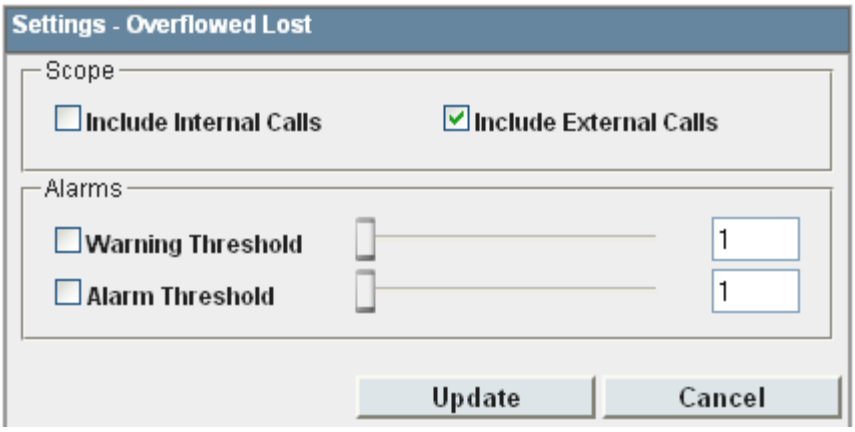
6.33 Overflowed Lost

- This statistic is available for the system and queues.
- It shows the number of calls which overflowed from the queue and were then lost.
- It does not include calls that go to voicemail.

- A lost call is one where the caller disconnects before being answered.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	✗	*Optional*	*Optional*	✓/✗
Agent	-	-	-	-	-/-

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Scope**
  Supervisors can select which types of calls are included in the calculation of this statistic. By default external calls are included.
  - **Include Internal Calls:** Select to include internal calls in the statistic.
  - **Include External Calls:** Select to include external calls in the statistic.
- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

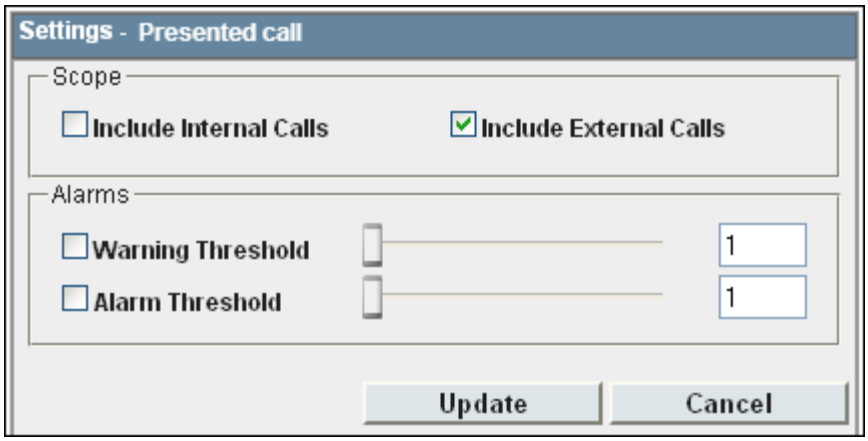
  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.34 Presented Calls

- This statistic is available for the system, queues, and agents.
- For queues, it is the sum of Answered calls 337, Routed to Voicemail 345, Overflow answered calls 342, Routed to others 344, Lost calls 341 and Overflowed lost calls 343.
- For agents, it is the sum of Answered calls 337, Agent's voicemail answered calls 345, Routed to others 344, Answered non-queue external 337, Answered non-queue internal 338, No answer 342, and Lost calls 341
- For agents, it includes Direct Calls.
- Calls to agents that are disconnected by the caller are not counted as Lost Calls; hence, these calls are not counted in Presented Calls.
- For queues, it does NOT include Direct Calls and Enquiry Calls.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	-	*Optional*	*Optional*	✓/✗
Agent	✓	✓	*Optional*	*Optional*	✓/✓

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Scope**
  Supervisors can select which types of calls are included in the calculation of this statistic. By default external calls are included.
  - **Include Internal Calls:** Select to include internal calls in the statistic.
  - **Include External Calls:** Select to include external calls in the statistic.

- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.

- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.35 Queue State

- This statistic is only available for queues.
- It shows the current state of the queue as one of the following: In Service, Agents Busy, No Agents, Night Service or Out of Service.
- The related statistic Queue State Time 256 can be used the show the time that the queue has been in its current state.

Statistic Settings
This statistic has no customizable settings.



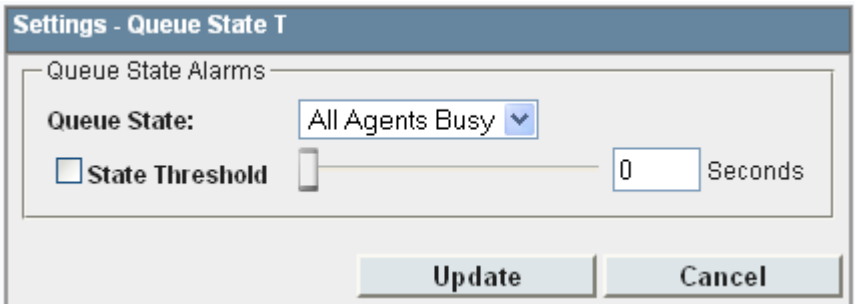
Possible queue states are:

Night Service	A queue can be set in 'night service' state either manually or as the result of an automatic time schedule. Agents in the queue will no longer be presented with calls targeted to that queue. Depending on how the queue has been configured by the telephone system maintainer, the calls will either overflow to another queue or to voicemail. This queue state is reported by the Queue State 255 statistic. The time the queue has been in a particular state is reported by the Queue State Time 256 statistic.
Out of Service	A queue can be set as 'out of service'. Agents in the queue will no longer be presented with calls targeted to that queue. Depending on how the queue has been configured by the telephone system maintainer, the calls will either overflow to another queue or to voicemail. This queue state is reported by the Queue State 255 statistic. The time the queue has been in a particular state is reported by the Queue State Time 256 statistic.
In Service	This queue state is reported for a queue in normal operation, ie. with some agents logged in and available to answer calls. Agents in the queue will no longer be presented with calls targeted to that queue. Depending on how the queue has been configured by the telephone system maintainer, the calls will either overflow to another queue or to voicemail. This queue state is reported by the Queue State 255 statistic. The time the queue has been in a particular state is reported by the Queue State Time 256 statistic.
Agents Busy	This queue state is reported for a queue when all the logged in agents are in a busy state. This queue state is reported by the Queue State 255 statistic. The time the queue has been in a particular state is reported by the Queue State Time 256 statistic.
No Agents	This queue state is reported for a queue where no agents are logged in. This queue state is reported by the Queue State 255 statistic. The time the queue has been in a particular state is reported by the Queue State Time 256 statistic.

6.36 Queue State Time

- This statistic is only available for queues.
- It shows the time the queue has been in its current state.
- The related statistic Queue State [255] can be used the show current state.

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset [111]. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

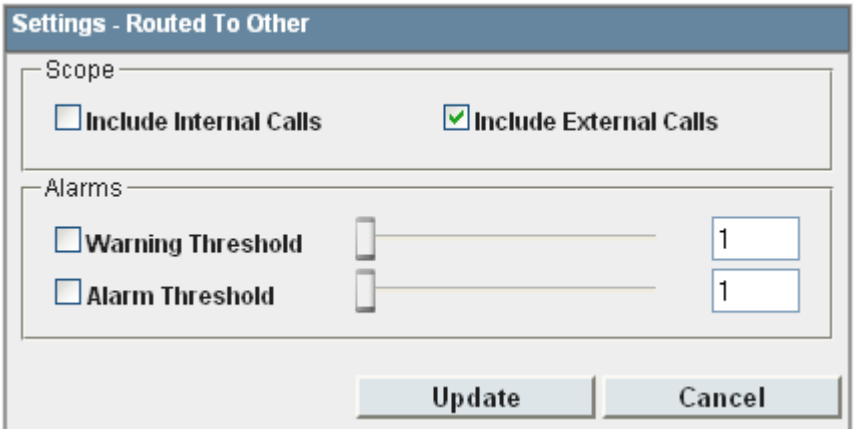
  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.37 Routed to Other

- This statistic is available for the system, queues, and agents.
- Sum of calls targeted at the queue or agent that are subsequently answered by a party, other than a member of the original queue, the overflow or voicemail. Only direct calls to agents will affect the **Routed to Other** for agents. Queued calls to agents will affect the Queue statistic.

Call types	Queue Calls	Direct Call	Internal Calls	External Calls	Overflowed from/to
Queue	✓	✗	*Optional*	*Optional*	✓/✗
Agent	✗	✓	*Optional*	*Optional*	✓/✗

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

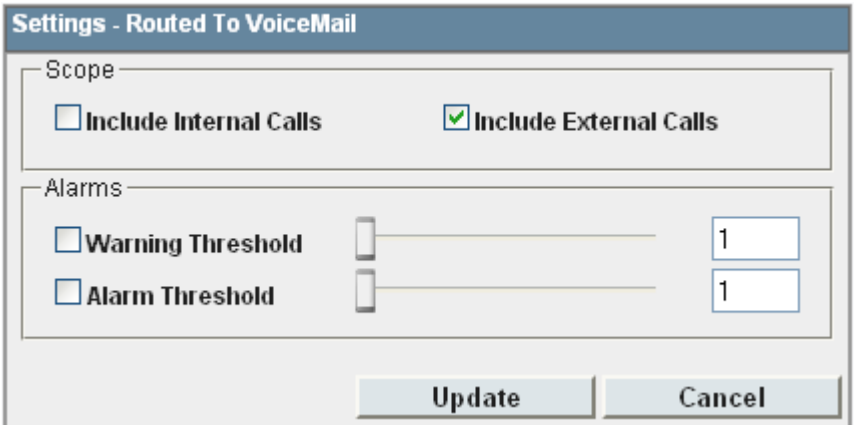
  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.38 Routed to Voicemail

- This statistic is available for the system, queues, and agents.
- For a queue it shows the number of queue calls presented and then routed to voicemail.
- For an agent it shows the number of direct calls to the agent that were then routed to voicemail.
- It does not include announcements played by voicemail to the caller.

Call types	Queue Calls	Direct Call	Internal Calls	External Calls	Overflowed from/to
Queue	✓	✗	*Optional*	*Optional*	✓/✗
Agent	✗	✓	*Optional*	*Optional*	✗/✗

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Scope**
  Supervisors can select which types of calls are included in the calculation of this statistic. By default external calls are included.
  - **Include Internal Calls:** Select to include internal calls in the statistic.
  - **Include External Calls:** Select to include external calls in the statistic.
- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

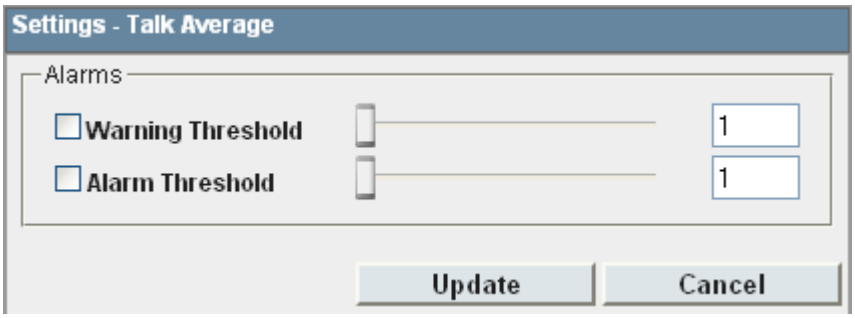
  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.39 Talk Average

- This statistic is available for the system, queues, and agents.
- It is calculated as the total talk time divided by the total number of inbound queue calls and outbound external calls.
- It does not include queue calls answered by non-queue members using methods such as call pickup.
- It does not include held, parked, and ACW call time.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	-	✗	✓	✗/✗
Agent	✓	✓	✗	✓	✗/✓

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.40 Talk Inbound

- This statistic is available for the system, queues and agents.
- It includes incoming external trunk calls. It does not include internal calls and outgoing external calls.
- It shows the time the agent has spent on handling incoming queue calls.
- It does not include queue calls answered by non-queue members using methods such as call pickup.
- It does not include held, parked, and ACW call time.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	-	✗	✓	✗/✗
Agent	✓	✗	✗	✓	✗/✓

Statistic Settings
This statistic has no customizable settings.



6.41 Talk Inbound Average

- This statistic is available for the system, queues, and agents.
- It includes incoming external trunk calls. It does not include internal calls and outgoing external calls.
- For an agent, it shows the average time that the agent has spent on incoming external queue calls. Calculated as: Total duration of Talk Inbound divided by the number of queue calls answered by the agent.
- For a queue, it shows the average time that all the agents belonging to the queue have spent on incoming external calls for the queue. Calculated as: Total duration of Talk Inbound divided by the number of queue calls answered by all the agents belonging to the queue.
- It does not include queue calls answered by non-queue members using methods such as call pickup.
- It does not include held, parked, and ACW call time.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	-	✗	✓	✗/✗
Agent	✓	-	✗	✓	✗/✓

Statistic Settings
This statistic has no customizable settings.



6.42 Talk Internal

- This statistic is available for the system, queues, and agents.
- It shows the time an agent has spent on internal calls (inbound and outbound).
- It does not include queue calls answered by non-queue members using methods such as call pickup.
- It does not include held, parked, and ACW call time.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	-	✓	✗	✓/✗
Agent	✓	✓	✓	✗	✓/✗

Statistic Settings
This statistic has no customizable settings.



6.43 Talk Outbound

- This statistic is available for the system, queues, and agents.
- For a queue it is the talk outbound time of all agents in the queue even if the agent queue membership is currently disabled.
- Shows the time the agent has spent on outgoing external calls. The system calculates the time from when an agent gets connected to an external call.
- Shows the sum of outbound talk time for all agents even when the system calculates statistics for a queue. This is because outbound calls are not related to a queue.
- It does not include held, parked, and ACW call time.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	-	✗	✓	-/-
Agent	✓	✓	✗	✓	-/-

Statistic Settings
This statistic has no customizable settings.

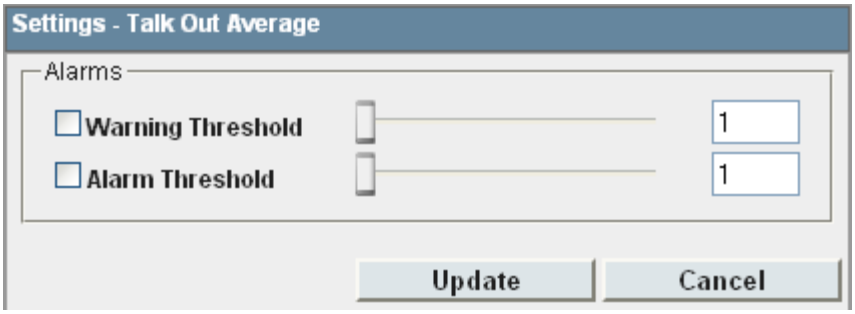


6.44 Talk Outbound Average

- This statistic is available for the system, queues, and agents.
- It shows the average time an agent has spent on outbound external calls. Calculated as: the sum of outbound talk time divided by the number of outbound calls that have seized a trunk successfully.
- It does not include held, parked, and ACW call time.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	-	✗	✓	-/-
Agent	✓	✓	✗	✓	-/-

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.45 Talk Total

- This statistic is available for the system, queues, and agents.
- It shows the time spent by agents on external outgoing calls and external incoming calls for a queue.
- For external outgoing calls, the system starts calculating the time only when the call gets connected.
- It does not include internal calls (incoming or outgoing).
- It does not include queue calls answered by non-queue members using methods such as call pickup.
- It does not include held, parked, and ACW call time.

Call types	Queue Calls	Direct Calls	Internal Calls	External Calls	Overflowed from/to
Queue	✓	-	✗	✓	✗/✗
Agent	✓	✗	✗	✓	✗/✓

Statistic Settings
This statistic has no customizable settings.

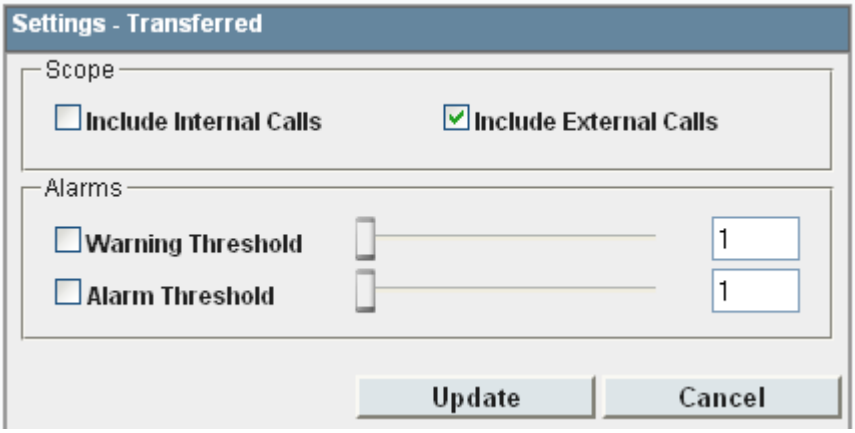


6.46 Transferred

- This statistic is available for the system, queues, and agents.
- For a queue it is the number of calls originally targeted at the queue and then successfully transferred by the queue's agents. It does not include direct calls 339 to agents that they then transfer.
- For an agent it is the number of calls that they have transferred. It includes direct calls 339 to agents that they then transfer.
- It includes the supervised transfers and those unsupervised transfers which are answered.

Call types	Queue Calls	Direct Call	Internal Calls	External Calls	Calls Overflowed from/to
Queue	✓	✗	*Optional*	*Optional*	-/-
Agent	✓	✓	*Optional*	*Optional*	-/-

Statistic Settings
All supervisors can customize the settings of each statistic column included in a view. The changes are applied to the existing data since the last view statistics reset 111. Click the statistic name at the top of the column and select **Settings**. Customize the statistics settings as required and then click **Update**.



- **Scope**
  Supervisors can select which types of calls are included in the calculation of this statistic. By default external calls are included.
  - **Include Internal Calls:** Select to include internal calls in the statistic.
  - **Include External Calls:** Select to include external calls in the statistic.
- **Alarms**
  Use these controls to select whether a warning and or an alarm is given for the statistic. You can also set the threshold level above which the warning or alarm is given.
  - When enabled, the background color of the cells is used to indicate their current alarm state.

Enabled / Cleared (Green)	Warning (Orange)	Alarm (Red)	Acknowledged (Blue)

  - Alarms and warning are updated approximately every 8 seconds. An alarm when it occurs, overrides a warning.
  - The alarms or warning is automatically cleared when the cell value goes back past the threshold level.
  - Agents and supervisors can acknowledge alarms and warnings in their views by clicking on the colored cell. This only affects their view. Acknowledging an alarm also removes it from the alarm list.
  - Within views, the alarm and warning settings are applied to all cells in the statistic column. When applied to an agent statistic, the same setting is applied to the whole column, even when you change which queue's agents are being viewed.
  - Note that when enabling or disabling alarms and warnings, the new settings are effective at the next change in the value of the relevant cells.
- **Warning Threshold**
  Select to enable a warning threshold and to set that threshold. The warning threshold must be lower than the alarm threshold.
- **Alarm Threshold**
  Select to enable an alarm threshold and to set that threshold. The alarm threshold must be higher that the warning threshold.

6.47 Statistic Summary

Agent Productivity 210

- This statistic is available for the system, queues, and agents.
- For a queue it shows the number of queue calls answered within a set of service criteria as a percentage of all queue calls presented.
- For an agent it shows the percentage of calls an agent has handled within a set of service criteria over all calls.
- It excludes calls disconnected before the Lost Calls threshold setting, measured from when the call was presented to the queue.
- It excludes direct calls presented to the agents and outbound external calls.
- It includes lost calls.

Agent State (Queue) 212

- This statistic is only available for agents.
- It shows the current state of each agent in the selected queue.
- The related statistic Agent State (Queue) Time 214 can be used to show how long each agent has been in their current state.

Agent State (Queue) Time 214

- This statistic is only available for agents.
- It shows how long the agent has been in their current state for the selected queue.
- The agent's current state can be shown by the related statistic Agent State (Queue) 212.

Agent State (System) 215

- This statistic is only available for agents.
- It shows the agent activity across all queues to which the agent belongs, ie. the whole system.
- The related statistic Agent State (System) Time 217 can be used to show how long each agent has been in their current state.

Agent State (System) Time 217

- This statistic is only available for agents.
- It shows how long the agent has been in their current system state.
- The agent's current state can be shown by the related statistic Agent State (System) 215.

Agents ACW 218

- This statistic is available for the system and queues.
- Its shows the number of agents who are currently in the After Call Work (ACW) state.
- For users who previously used CCC, the ACW state is similar to Busy Wrap Up.

Agents Available 219

- This statistic is available for the system and queues.
- It shows the number of agents in the queue who are currently available to answer calls.

Agents Call Share 220

- This statistic is only available for agents.
- It shows the percentage of queue calls 343 answered by the agent out of all queue calls answered by the agents in the queue.

Agents Logged On 221

- This statistic is available for the system and queues.
- It shows the number of agents who are members of the queue and are currently logged in.
- When logged in an agent can also be in other states.

Agents Present 222

- This statistic is available for the system and queues.
- It shows the number of agents who are logged in but whose membership of the queue is currently disabled.

Agents Ringing 223

- This statistic is available for the system and queues.
- It shows the number of agents with queue calls 343 ringing but not yet answered.

Answered Calls 224

- This statistic is available for the system, queues, and agents.
- It shows the number of queue calls 343 that has been answered by the agents in the queue or the agent being reported on.
- It does not include direct calls answered by agents.
- If a call that has overflowed is answered by an agent, it is reported as **Overflowed Answered** for the queue and as **Answered** for the agent.
- It does not include queue calls answered by non-queue members using methods such as call pickup.
- It does not include calls that go to voicemail.

Answered External Non-Queue 226

- This statistic is only available for agents.
- It shows the sum of the number of external inbound calls that are:
  - targeted directly to an agent and answered by the agent.
  - targeted to another queue and picked up by the agent using call pickup.
  - targeted directly to another agent and picked up by the agent using call pickup.
- It does not include queue calls to a queue of which the agent is a member.

Answered Internal Non-Queue 227

- This statistic is only available for agents.
- It shows the number of internal inbound calls that are targeted directly to an agent and answered by the agent.
- It includes the number of internal calls targeted to another queue and answered by the agent using call pickup.
- It includes the number of internal calls targeted directly to another agent and answered by the agent using call pickup.
- It does not includes queue calls to a queue of which the agent is a member.

Answered Internal (Queue) 228

- This statistic is available for the system, queues, and agents.
- It shows the number of internal calls to the queue that were then answered by the agents in the queue or the agent being reported on.

Average Answer % 229

- This statistic is available for the system, queues, and agents.
- It shows the number of queue calls 343 answered by the queue within the specified answer threshold time, divided by the total number of calls answered.

Average Answer Time 231

- This statistic is available for the system, queues, and agents.
- It shows the sum of answer times divided by the number of queue calls answered by the queue or by the agent being reported.
- The answer time is measured from the time when the call arrives at the target (queue or agent). It does not include t he delay between the time when a call is presented to a Hunt Group and the time when the call arrives at the target.
- When calculated for an agent, the statistic is only based on the calls that the agent handled on behalf of the hunt group selected in the view.

Average Wait Time 231

- This statistic is available for the system and queues.
- Average waiting time of calls.

Busy Not Available 234

- This statistic is available for the system and queues.
- It shows the total number of agents in the queue who have currently indicated they are Busy Not Available 338.
- Busy Not Available is a state selected by an agent when they need to stop receiving queue calls to do some non-call related activity.

Calls Waiting 235

- This statistic is available for the system and queues.
- It shows the number of calls targeted to the queue that are waiting to be answered by the agents in the queue or the agent being reported on.
- It includes calls currently ringing at agent telephones.
- Calls that overflow from the queue and are still waiting to be answered are reported using Overflowed Calls Waiting 250.

Current Wait Time 237

- This statistic is available for the system and queues.
- Time of the longest currently waiting call.

Grade of Service 238

- This statistic is available for the system and queues.
- It shows the number of queue calls answered within the defined answer threshold as a percentage of all queue calls presented.
- It excludes calls where the caller disconnects before the statistic's **Lost Calls Threshold** setting, measured from when the call was presented to the queue.
- It includes calls that become lost calls.
- It does not include calls that were routed elsewhere (**Routed to Other**) or to voicemail (**Routed to Voicemail**).

Internal Made 240

- This statistic is only available for agents.
- It shows the number of internal calls made by an agent. Only internal calls that are answered are included.

Longest Wait Time 241

- This statistic is available for the system and queues.
- Waiting time of the longest waiting call.

Lost Calls 243

- This statistic is available for the system, queues, and agents.
- It shows the number of queue calls where the caller disconnected before they were answered by an agent in the queue or the agent being reported on.
- Queue calls that are lost are reported as lost against both the queue and against the last agent to which the call was presented.
- Direct calls to an agent that are lost are reported as lost for the agent but not for the queue.
- If a call that has overflowed is lost, it is reported as **Overflowed Lost** for the queue.
- It does not include calls that go to voicemail.

New Messages 245

- This statistic is available for the system and queues.
- It shows the current number of unread messages in the mailbox of the selected queue.
- This is not an IP Office Customer Call Reporter statistic that can be reset, it is a value reported by the voicemail server providing the mailbox.

Outbound Calls (External) 248

- This statistic is only available for agents.
- It shows the number of outbound external calls made by the agent.
- As the system uses this statistic to calculate Average Outbound Talk Time (Av Out), the system counts only those outbound external calls that get connected.

Overflowed Answered 249

- This statistic is available for the system and queues.
- It shows the number of queue calls answered after overflowing to another queue.
- This applies even if the overflowed call is answered by an agent in the queue from which the call overflowed.
- It does not include queue calls answered by methods such as call pickup (use **Routed to Other** 257).
- It does not include calls that go to voicemail.

Overflowed Calls 247

- This statistic is available for the system and queues.
- It shows the number of calls that have overflowed from the queue to its overflow destination.
- Once a call has overflowed, it can also be included in the queue's Overflowed Calls Waiting 343, Overflowed Answered 342, and Overflowed Lost 343 statistics.

Overflowed Calls Waiting 250

- This statistic is available for the system and queues.
- It shows the number of calls overflowed from the queue and still waiting to be answered.

Overflowed Lost

- This statistic is available for the system and queues.
- It shows the number of calls which overflowed from the queue and were then lost.
- It does not include calls that go to voicemail.

[****]

Presented Calls

- This statistic is available for the system, queues, and agents.
- For queues, it is the sum of Answered calls, Routed to Voicemail, Overflow answered calls, Routed to others, Lost calls and Overflowed lost calls.
- For agents, it is the sum of Answered calls, Agent's voicemail answered calls, Routed to others, Answered non-queue external, Answered non-queue internal, No answer, and Lost calls
- For agents, it includes Direct Calls.
- Calls to agents that are disconnected by the caller are not counted as Lost Calls; hence, these calls are not counted in Presented Calls.
- For queues, it does NOT include Direct Calls and Enquiry Calls.

Queue State

- This statistic is only available for queues.
- It shows the current state of the queue as one of the following: In Service, Agents Busy, No Agents, Night Service or Out of Service.
- The related statistic Queue State Time can be used the show the time that the queue has been in its current state.

Queue State Time

- This statistic is only available for queues.
- It shows the time the queue has been in its current state.
- The related statistic Queue State can be used the show current state.

Routed to Other

- This statistic is available for the system, queues, and agents.
- Sum of calls targeted at the queue or agent that are subsequently answered by a party, other than a member of the original queue, the overflow or voicemail. Only direct calls to agents will affect the **Routed to Other** for agents. Queued calls to agents will affect the Queue statistic.

Routed to Voicemail

- This statistic is available for the system, queues, and agents.
- For a queue it shows the number of queue calls presented and then routed to voicemail.
- For an agent it shows the number of direct calls to the agent that were then routed to voicemail.
- It does not include announcements played by voicemail to the caller.

Talk Average

- This statistic is available for the system, queues, and agents.
- It is calculated as the total talk time divided by the total number of inbound queue calls and outbound external calls.
- It does not include queue calls answered by non-queue members using methods such as call pickup.
- It does not include held, parked, and ACW call time.

Talk Inbound

- This statistic is available for the system, queues and agents.
- It includes incoming external trunk calls. It does not include internal calls and outgoing external calls.
- It shows the time the agent has spent on handling incoming queue calls.
- It does not include queue calls answered by non-queue members using methods such as call pickup.
- It does not include held, parked, and ACW call time.

Talk Inbound Average

- This statistic is available for the system, queues, and agents.
- It includes incoming external trunk calls. It does not include internal calls and outgoing external calls.
- For an agent, it shows the average time that the agent has spent on incoming external queue calls. Calculated as: Total duration of Talk Inbound divided by the number of queue calls answered by the agent.
- For a queue, it shows the average time that all the agents belonging to the queue have spent on incoming external calls for the queue. Calculated as: Total duration of Talk Inbound divided by the number of queue calls answered by all the agents belonging to the queue.
- It does not include queue calls answered by non-queue members using methods such as call pickup.
- It does not include held, parked, and ACW call time.

Talk Internal 262

- This statistic is available for the system, queues, and agents.
- It shows the time an agent has spent on internal calls (inbound and outbound).
- It does not include queue calls answered by non-queue members using methods such as call pickup.
- It does not include held, parked, and ACW call time.

Talk Outbound 263

- This statistic is available for the system, queues, and agents.
- For a queue it is the talk outbound time of all agents in the queue even if the agent queue membership is currently disabled.
- Shows the time the agent has spent on outgoing external calls. The system calculates the time from when an agent gets connected to an external call.
- Shows the sum of outbound talk time for all agents even when the system calculates statistics for a queue. This is because outbound calls are not related to a queue.
- It does not include held, parked, and ACW call time.

Talk Outbound Average 264

- This statistic is available for the system, queues, and agents.
- It shows the average time an agent has spent on outbound external calls. Calculated as: the sum of outbound talk time divided by the number of outbound calls that have seized a trunk successfully.
- It does not include held, parked, and ACW call time.

Talk Total 265

- This statistic is available for the system, queues, and agents.
- It shows the time spent by agents on external outgoing calls and external incoming calls for a queue.
- For external outgoing calls, the system starts calculating the time only when the call gets connected.
- It does not include internal calls (incoming or outgoing).
- It does not include queue calls answered by non-queue members using methods such as call pickup.
- It does not include held, parked, and ACW call time.

Transferred 266

- This statistic is available for the system, queues, and agents.
- For a queue it is the number of calls originally targeted at the queue and then successfully transferred by the queue's agents. It does not include direct calls 339 to agents that they then transfer.
- For an agent it is the number of calls that they have transferred. It includes direct calls 339 to agents that they then transfer.
- It includes the supervised transfers and those unsupervised transfers which are answered.

Chapter 7.
Call Scenarios

7. Call Scenarios

This section provides a number of examples of the statistics collected by IP Office Customer Call Reporter for different call scenarios. It also explains some of the features of call handling provided by the telephone system and how those are interpreted by IP Office Customer Call Reporter.

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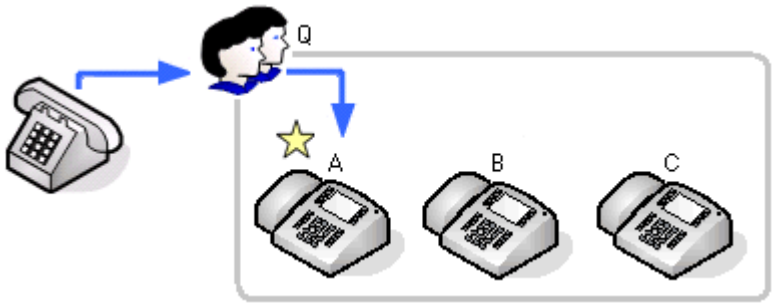
- After Call Work 141
- Announcements 326
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7.1 Queue Calls

This term is used for calls targeted to a queue, either by the telephone system or by the caller dialing the queue's extension number. Unless otherwise specifically stated, most statistics shown by IP Office Customer Call Reporter are only for queue calls. Calls direct to an agent (non-queue calls 339) rather than to the queue to which they belong are not included.

7.1.1 Queue Call Answered by 1st Agent

An external call is targeted to a queue. The call is answered by the first available agent.



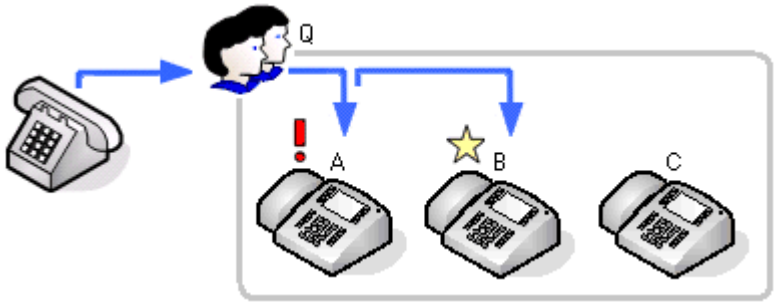
Events	Queue Q	Agent A
• A call is routed to the queue.	Calls Waiting 1	–
• The call is presented to the first available agent.	Agents Ringing 1	–
• The call is answered.	Answered Calls 1	Answered Calls 1
Historical	**Answered Calls 1**	**Answered Calls 1**

Queues	Answered Calls	No Answer	Lost Calls
Queue Q	1	0	0
TOTAL	1	0	0

Agents	Answered Calls	No Answer	Lost Calls
Agent A	1	0	0
Agent B	0	0	0
Agent C	0	0	0

7.1.2 Queue Call Answered by 2nd Agent

An external call is targeted to a queue. The call is not answered by the first available agent. The call is answered by the second available agent.



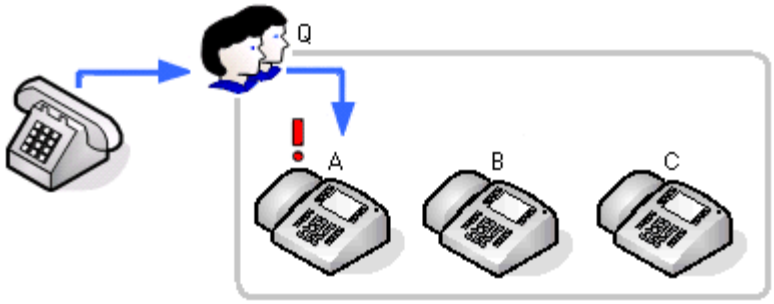
Events	Queue Q	Agent A	Agent B
• A call is routed to the queue.	Calls Waiting 1	–	–
• The call is presented to the first available agent.	Agents Ringing 1	–	–
• The call is not answered.	No Answer 1	No Answer 1	–
• The call is presented to the next available agent.	Agents Ringing 1	–	–
• The call is answered.	Answered Calls 1	–	Answered Calls 1
Historical	**No Answer 1 Answered Calls 1**	**No Answer 1**	**Answered Calls 1**

Queues	Answered Calls	No Answer	Lost Calls
Queue Q	1	1	0
TOTAL	1	1	0

Agents	Answered Calls	No Answer	Lost Calls
Agent A	0	1	0
Agent B	1	0	0
Agent C	0	0	0

7.1.3 Queue Call Which is Lost

An external call is targeted to a queue. The call is not answered before the caller hangs up.



Events	Queue Q	Agent A
• A call is routed to the queue.	Calls Waiting 1	–
• The call is presented to the first available agent.	Agents Ringing 1	–
• The caller hangs up.	Lost Calls 1	Lost Calls 1
Historical	**Lost Calls 1**	**Lost Calls 1**

Queues	Answered Calls	No Answer	Lost Calls
Queue Q	0	0	1
TOTAL	0	0	1

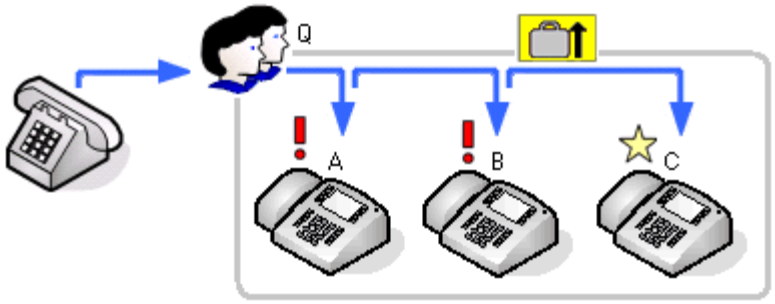
Agents	Answered Calls	No Answer	Lost Calls
Agent A	0	0	1
Agent B	0	0	0
Agent C	0	0	0

Notes:

- When a queue call is lost, it is recorded as lost against the queue and against the last agent to which is was presented.

7.1.4 Queue Call Picked Up by Another Agent

This scenario shows a queue call being picked up by another agent in the queue.



Events	Queue Q	Agent A	Agent B	Agent C
• A call is routed to the queue.	Calls Waiting 1	–	–	–
• The call is presented to the first available agent.	Agents Ringing 1	–	–	–
• The call is not answered.	No Answer 1	No Answer 1	–	–
• The call is presented to the next available agent.	Agents Ringing 1	–	–	–
• Another agent in the queue picks up the ringing call.	Answered 1	–	–	Answered 1
Historical	**No Answer 1 Answered 1**	**No Answer 1**	**–**	**Answered 1**

Queues	Answered Calls	No Answer	Lost Calls
Queue Q	1	0	0
TOTAL	0	0	0

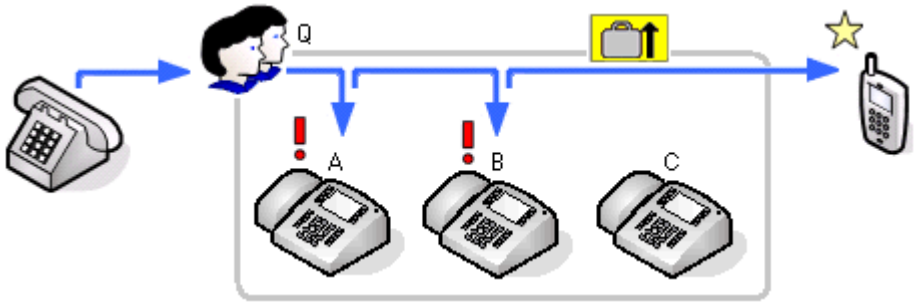
Agents	Answered Calls	No Answer	Lost Calls
Agent A	0	1	0
Agent B	0	0	0
Agent C	1	0	0

Notes:

- The call presented to the first agent but not answered by them is counted as a **No Answer** call for both the agent and the queue as it rang them for the queue's full no answer time before being automatically presented to the next available agent.
- The agent to which the call was being presented when it was picked up does not have the call counted as a **No Answer** call as it was not presented for the queue's full no answer time before it was picked up.
- For the agent who picked up the calls it is recorded as **Answered External (Non-Queue)**.

7.1.5 Queue Call Pickup by Non Agent

This scenario shows a queue call being picked up by someone who is not a member of the queue, in this case a normal extension.



Events	Queue Q	Agent A	Agent B	Agent C
• A call is routed to the queue.	Calls Waiting 1	–	–	–
• The call is presented to the first available agent.	Agents Ringing 1	–	–	–
• The call is not answered.	No Answer 1	No Answer 1	–	–
• The call is presented to the next available agent.	Agents Ringing 1	–	–	–
• A non-agent in the queue picks up the ringing call.	Routed to Other 1	–	–	–
Historical	**No Answer 1 Routed to Other 1**	**No Answer 1**	**–**	**–**

Queues	Answered Calls	No Answer	Lost Calls	Routed to Other
Queue Q	0	0	0	1
TOTAL	0	0	0	1

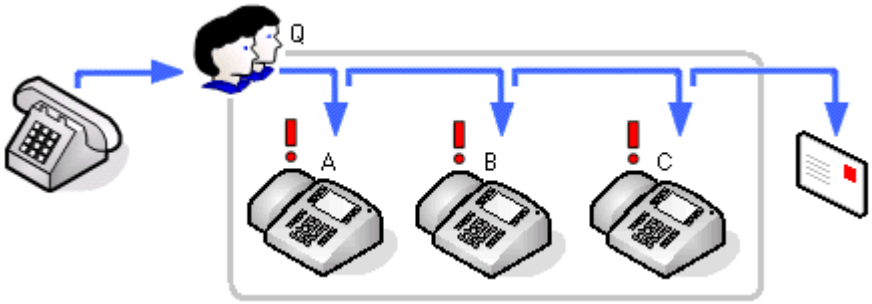
Agents	Answered Calls	No Answer	Lost Calls	Routed to Other
Agent A	0	1	0	0
Agent B	0	0	0	0
Agent C	0	0	0	0

Notes:

- The call presented to the first agent but not answered by them is counted as a **No Answer** call for both the agent and the queue as it rang them for the queue's full no answer time before being automatically presented to the next available agent.
- The agent to which the call was being presented when it was picked up does not have the call counted as a **No Answer** call as it was not presented for the queue's full no answer time before it was picked up.
- The picked up call is not recorded as an answered call for the queue. Instead the call is recorded as **Routed to Other**.

7.1.6 Queue Call Timed Out to Voicemail

An external call is targeted to a queue. The call is presented to each available agent in turn but remains unanswered. When the queue's voicemail timeout occurs the call goes to the queue's voicemail mailbox immediately.



Events	Queue Q	Agent A	Agent B	Agent C
• A call is routed to the queue.	Calls Waiting 1	–	–	–
• The call is presented to the first available agent.	Agents Ringing 1	–	–	–
• The call is not answered.	No Answer 1	No Answer 1	–	–
• The call is presented to the next available agent.	Agents Ringing 1	–	–	–
• The call is not answered.	No Answer 1	–	No Answer 1	–
• The call is presented to the next available agent.	Agents Ringing 1	–	–	–
• The call is not answered.		–	–	No Answer 1
• While being presented the call times out to voicemail.	Routed to VM 1	–	–	–
• The caller leaves a message.	New Messages 1			
Historical	**No Answer 2 Routed to VM 1 New Messages 1**	**No Answer 1**	**No Answer 1**	**No Answer 1**

Queues	Answered Calls	No Answer	Lost Calls	Routed to Other	Routed to Voicemail
Queue Q	0	3	0	0	1
TOTAL	0	3	0	0	1

Agents	Answered Calls	No Answer	Lost Calls	Routed to Other
Agent A	0	1	0	0
Agent B	0	1	0	0
Agent C	0	1	0	0

7.2 Transferring Calls

Transferred calls consist of a number of stages:

1. The current call is put on hold pending transfer.
2. An enquiry call is made to the transfer target.
   - For an unsupervised transfer, the transfer process is completed while the enquiry call is still ringing.
   - For a supervised transfer the transfer process is only completed after the enquiry call is answered.

IP Office Customer Call Reporter reports transferred calls in the following way depending on whether the transfer is supervised or unsupervised and on whether the transfer target is a queue, an agent or any other target.

Supervised Transfer to...	**Queue**	**Agent**	**Other**
Enquiry Call	• Increments the transferring agent's **Internal Made** statistic. • The enquiry call is treated as an internal call by IP Office Customer Call Reporter, however the IP Office will present it to the target as internal or external as appropriate for the call that has been put on hold pending transfer.		• The enquiry call is not recorded in any agent statistic.
Enquiry Answered	• Increments **Answered Calls** for the targeted queue and agent answering.	• Increments **Answered Internal Non-Queue** for the targeted agent.	• Increments the **Answered Calls** statistic for the transferring queue.
Successful Transfer	• If the call transferred is a queue call, transfer completion increments **Transferred** for the queue and agent transferring.		
	• Increments **Answered Calls** for the targeted queue and agent answering with an internal or external call as appropriate for the call transferred.	• Increments the answering agent's **Answered Internal Non-Queue** or **Answered External Non-Queue** as appropriate for the type of call being transferred.	• No further statistics are incremented.
Unsupervised Transfer to...	**Queue**	**Agent**	**Other**
Enquiry Call	• The enquiry call is not recorded in any queue or agent statistic.		
Successful Transfer	• If the call being transferred was a queue call, it increments the transferring queue and agent's **Transferred** statistics.		
	• Increments **Answered Calls** for the targeted queue and answering agent.	• Increments the answering agent's **Answered Internal Non-Queue** or **Answered External Non-Queue** as appropriate for the call being transferred.	• No further statistics are incremented.

Transferred Call and Performance Statistics

For performance statistics, **Average Answer Time**, **Average Answer %** and **Grade of Service**, transferred calls are treated as follows:

- For supervised transfers, the duration of the enquiry call is treated as the ringing time of the transferred call. Note also that the ring time of the enquiry call is included a separate answered call value.
- For unsupervised transfers, the transferred call is treated the same as a call targeted directly to the queue or agent.

Transferred Calls and Wait Time

- For supervised transfers (including transfers using park 329), the duration the call is held or parked is included in the **Average Wait Time** 231 and **Longest Wait Time** 241 calculations for the queue to which the call is transferred.

Call Details Report and Transferred Calls

For the agent doing the transfer:
For the queue/agent that the call is transferred from, the Call Details Report will detail the following call events:

Call Records	Details included
Answered Call	As per a normal call.
Holding Call	• The **Call Reference**, **Direction**, **Agent**, **Number** and **Queue** are those of the answered call. • The **Date/Time** are when the call was held. • The **Duration** is the time from the call being held to the transfer being completed. • The **DDI** is that of the original call. • The **Queue Time** is blank. • The **Status** is ***Holding***.
Transferred Call	Reports the same details as the original answered call except:- • The **Date/Time** are when the transfer was completed. • The **Queue Time** is blank. • The **Duration** is from the transfer initiation to the end of the transfer (ie. it includes the duration of the enquiry call).

For the queue/agent receiving the transfer:
A call detail report run against the Queue/Agent, that receives a transfer, will detail:

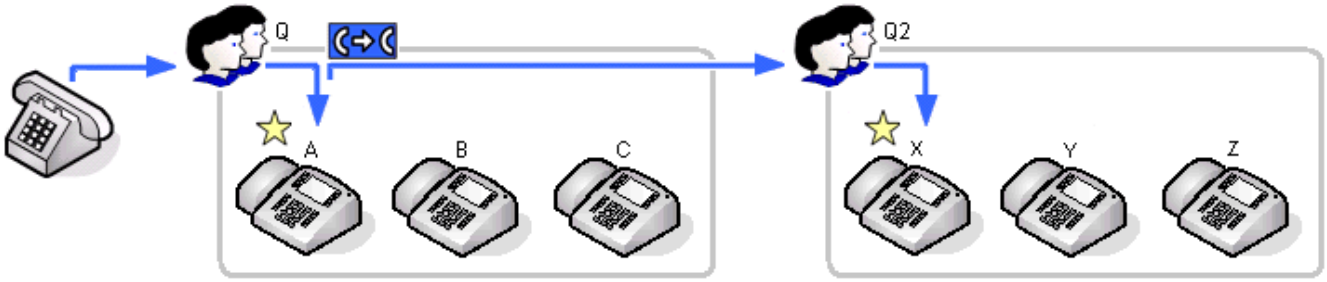
Call Records	Details included
Enquiry Answered	Note that this record is not present for unsupervised transfers. • **Date/Time** is the point ringing is heard. • **Call direction** is internal. • **Number** is the calling parties' number. • **DDI** is the number dialed. • **Queue** is the target queue or blank if agent. • **Queue Time** is the ringing time of the enquiry call. • **Agent** is the agent answering the call. • **Duration** is from the agent answering to the transfer being completed. • **Status** is ***Enquiry Answered***. • **Call Reference** is a new call reference.
Answered Call	Reports the same details as the original transferred call except the following: • The **Date/Time** are when the transfer was completed. • The **Queue** is the target of the transfer. • The **Queue Time** is the time from the initial queuing at the transferee until the transfer is completed. • The **Duration** is from the transfer initiation to the end of the call leg (ie. it includes the duration of the enquiry call).

Within reports there is a difference in where the transferred calls ringing time is reported. In an **Agent Summary Report**, the ringing time is included in the **Hold** time. In a **Call Details Report** it is part of the **Queue Time** values.

- IP Office Customer Call Reporter does not support the **Blind Transfer** option provided by IP Office Softphone. Agents using IP Office Softphone should use supervised transfers only.

7.2.1 Queue Call Supervised Transfer to Queue

In this scenario the agent who answered an external call to the queue transfers it to another queue.



Events	Queue Q	Agent A	Queue Q2	Agent X
• A call is routed to the queue.	Calls Waiting 1	–	–	–
• The call is presented to the first available agent.	Agents Ringing 1	–	–	–
• The call is answered.	Answered Calls 1	Answered Calls 1	–	–
• The call is put on hold pending transfer.	–	–	–	–
• The agent dials the transfer target.	–	Internal Made 1	–	–
• The call is answered.	–	–	Answered Calls 1	Answered Calls 1
• The agent completes the transfer.	Transferred 1	Transferred 1	Answered Calls 1	Answered Calls 1
Historical	**Answered Calls 1 Transferred 1**	**Answered Calls 1 Internal Made 1 Transferred 1**	**Answered Calls 2**	**Answered Calls 2**

Queues	Answered Calls	No Answer	Transferred	Answered Int Queue
Queue Q	1	0	1	0
Queue Q2	2	0	0	1
TOTAL	3	0	1	1

Agents	Answered Calls	Internal Made	Transferred	Answered Int Queue
Agent A	1	1	1	0
Agent B	0	0	0	0
Agent C	0	0	0	0

Queues	Answered Calls	No Answer	Transferred	Answered Int Queue
Queue Q	1	0	1	0
Queue Q2	2	0	0	1
TOTAL	3	0	1	1

Agents	Answered Calls	Internal Made	Transferred	Answered Int Queue
Agent X	2	0	0	1
Agent Y	0	0	0	0
Agent Z	0	0	0	0

The following is an example report, using the Call Details Report 56 template, for a supervised transfer from queue to queue. It shows the initial call being answered, put on hold, an enquiry call being made and answered and then the initial call being transferred.

Call Details Report-Q

07/06/2013 - 07/06/2013 11:22 - 17:00

Report Type	Target Name	Supervisor Name
Call Details Report - All	Queue *	Supervisor1

Time Stamp	Call Direction	Number	DDI	Queue	Queue Time	Agent	Duration	Status	Reference
Ungrouped									
07/06/2013 11:24:05	**Inbound**	**9018@172.29.2.103**	**3001@172.29.2.123**	**HG 1**	**00:00:05**	**Extn101**	**00:00:39**	**New Call**	**000014**
07/06/2013 11:24:05	Inbound	9018@172.29.2.103	3001@172.29.2.123	HG 1		Extn101	00:00:10	Connected	000014
07/06/2013 11:24:15	Inbound	9018@172.29.2.103	3001@172.29.2.123	HG 1		Extn101	00:00:29	Holding	000014
07/06/2013 11:24:32	**Internal**	**101**	**3002**	**HG 2**	**00:00:05**	**Extn201**	**00:00:12**	**New Call**	**000015**
07/06/2013 11:24:32	Internal	101	3002	HG 2	00:00:05	Extn201		Enquiry Answered	000015
07/06/2013 11:24:44	**Inbound**	**9018@172.29.2.103**	**3001@172.29.2.123**	**HG 2**	**00:00:29**	**Extn201**	**00:00:09**	**New Call**	**000014**
07/06/2013 11:24:44	Inbound	9018@172.29.2.103	3001@172.29.2.123	HG 1		Extn101		Transferred	000014
07/06/2013 11:24:44	Inbound	9018@172.29.2.103	3001@172.29.2.123	HG 2		Extn201	00:00:09	Connected	000014

Summary

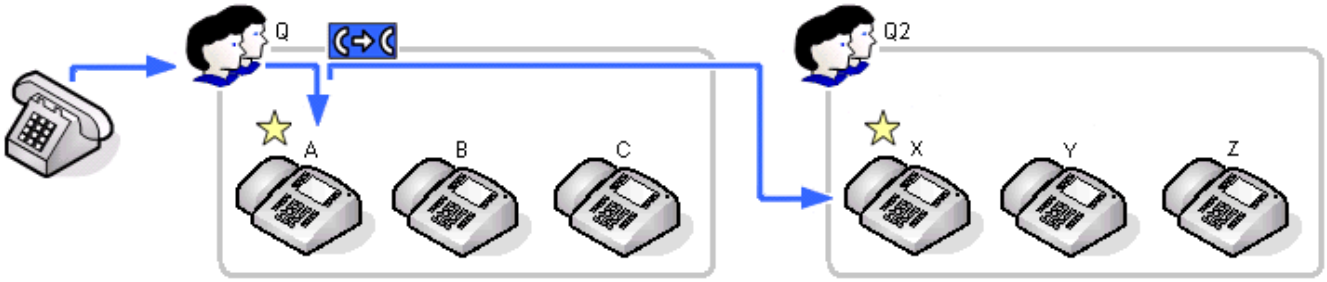
Customer Calls	**2**	**Internal Calls**	**1**	**External Inbound Calls**	**1**
				Initiated Outbound Calls	**0**

The report shows that a queue call waits at the queue HG1 for 5 seconds before the agent Extn101 answers the call. The agent after a conversation for 10 seconds, places the call on hold, completes the enquiry with the agent, and completes the transfer of the call to the agent Extn201 in 29 seconds. The report shows a wait time of 29 seconds for the queue HG2 and the same duration as the hold time for the queue HG1. After the transfer is complete, the agent Extn201 has a conversation for 9 seconds.

Note that the transfer completion causes two rows to be included for a supervised transfer, one with the status **Transferred** for the queue from which the call was transferred and the other with the status **New Call** for the queue to which the call was transferred. Also note that the row with the **Enquiry Answered** status is displayed in the report only if the **Internal Calls** check box is selected while configuring the report.

7.2.2 Queue Call Supervised Transfer to Agent

In this scenario the agent who answered an external call to the queue transfers it to an agent in another queue.



Events	Queue Q	Agent A	Queue Q2	Agent X
• A call is routed to the queue.	Calls Waiting 1	–	–	–
• The call is presented to the first available agent.	Agents Ringing 1	–	–	-
• The call is answered.	Answered Calls 1	Answered Calls 1	–	–
• The call is put on hold pending transfer.	–	–	–	–
• The agent dials the transfer target.	–	Internal Made 1	–	–
• The call is answered.	–	–	–	Answered Internal Non-Queue 1
• The agent completes the transfer.	Transferred 1	Transferred 1	–	Answered External Non-Queue 1
Historical	**Answered Calls 1 Transferred 1**	**Answered Calls 1 Internal Made 1 Transferred 1**	**–**	**Answered Internal Non-Queue 1 Answered External Non-Queue 1**

Queues	Answered Calls	No Answer	Transferred	Answered Int Queue
Queue Q	1	0	1	0
Queue Q2	0	0	0	0
TOTAL	1	0	1	0

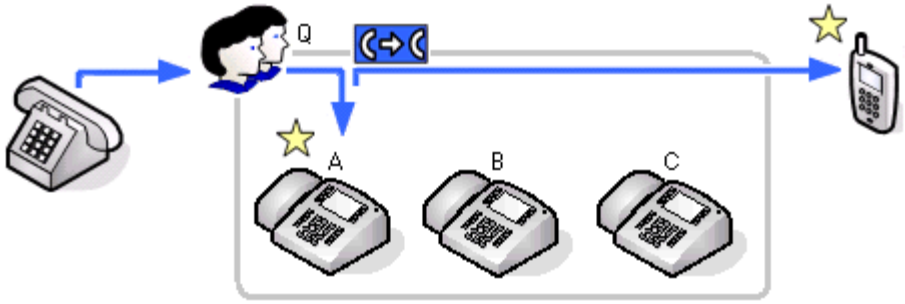
Agents	Answered Calls	Internal Made	Transferred	Answered Int Non-Q	Answered Ext Non-Q
Agent A	1	1	1	0	0
Agent B	0	0	0	0	0
Agent C	0	0	0	0	0

Queues	Answered Calls	No Answer	Transferred	Answered Int Queue
Queue Q	1	0	1	0
Queue Q2	0	0	0	0
TOTAL	1	0	1	0

Agents	Answered Calls	Internal Made	Transferred	Answered Int Non-Q	Answered Ext Non-Q
Agent X	0	0	0	1	1
Agent Y	0	0	0	0	0
Agent Z	0	0	0	0	0

7.2.3 Queue Call Supervised Transfer to Non-Agent

In this scenario the agent who answered an external call to the queue transfers it to a non-agent.



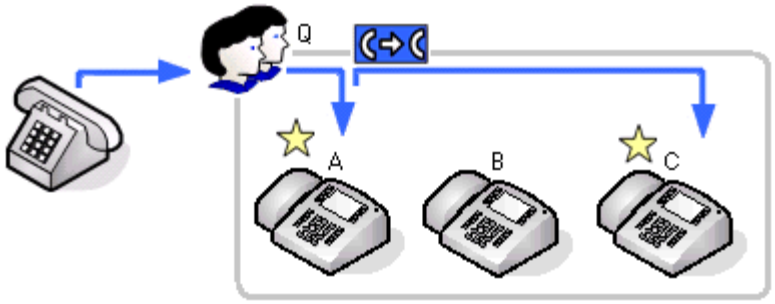
Events	Queue Q	Agent A
• A call is routed to the queue.	Calls Waiting 1	–
• The call is presented to the first available agent.	Agents Ringing 1	–
• The call is answered.	Answered Calls 1	Answered Calls 1
• The call is put on hold pending transfer.	–	–
• The agent dials the transfer target.	–	–
• The call is answered.	Answered Call 1	–
• The agent completes the transfer.	Transferred 1	Transferred 1
Historical	Answered Calls 2 Transferred 1	Answered Calls 1 Transferred 1

Queues	Answered Calls	No Answer	Transferred
Queue Q	2	0	1
Queue Q2	0	0	0
TOTAL	2	0	1

Agents	Answered Calls	Internal Made	Transferred
Agent A	1	0	1
Agent B	0	0	0
Agent C	0	0	0

7.2.4 Queue Call Supervised Transfer to Agent in Same Queue

In this scenario the agent who answered an external call to the queue transfers it to another agent in the same queue.



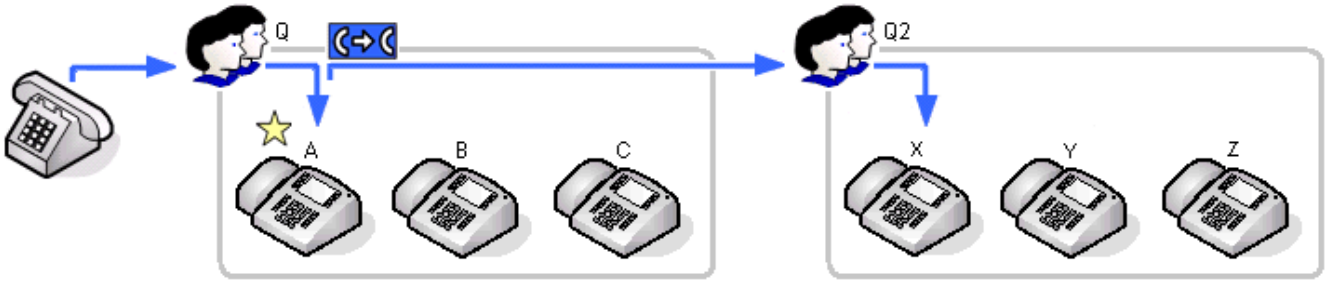
Events	Queue Q	Agent A	Agent C
• A call is routed to the queue.	Calls Waiting 1	–	–
• The call is presented to the first available agent.	Agents Ringing 1	–	–
• The call is answered.	Answered Calls 1	Answered Calls 1	–
• The call is put on hold pending transfer.	–	–	–
• The agent dials the transfer target.	–	Internal Made 1	–
• The call is answered.	–	–	Answered Internal Non Queue 1
• The agent completes the transfer.	Transferred 1	Transferred 1	Answered External Non Queue 1
Historical	**Answered Calls 1 Transferred 1**	**Answered Calls 1 Internal Made 1 Transferred 1**	**Answered Internal Non Queue 1 Answered External Non Queue 1**

Queues	Answered Calls	No Answer	Transferred
Queue Q	1	0	1
Queue Q2	0	0	0
TOTAL	1	0	1

Agents	Answered Calls	Internal Made	Transferred	Answered Int Non-Q	Answered Ext Non-Q
Agent A	1	1	1	0	0
Agent B	0	0	0	0	0
Agent C	0	0	0	1	1

7.2.5 Queue Call Unsupervised Transfer to Queue

In this scenario the agent who answered an external call to the queue transfers it to another queue and completes the transfer without waiting to be answered.



Events	Queue Q	Agent A	Queue Q2	Agent X
• A call is routed to the queue.	Calls Waiting 1	–	–	–
• The call is presented to the first available agent.	Agents Ringing 1	–	–	–
• The call is answered.	Answered Calls 1	Answered Calls 1	–	–
• The call is put on hold pending transfer.	–	–	–	–
• The agent dials the transfer target.	–	–	–	–
• The agent completes the transfer without waiting to be answered.	Transferred 1	Transferred 1	Answered Calls 1	Answered Calls 1
Historical	**Answered Calls 1 Transferred 1**	**Answered Calls 1 Transferred 1**	**Answered Calls 1**	**Answered Calls 1**

Queues	Answered Calls	No Answer	Transferred
Queue Q	1	0	1
Queue Q2	1	0	0
TOTAL	2	0	1

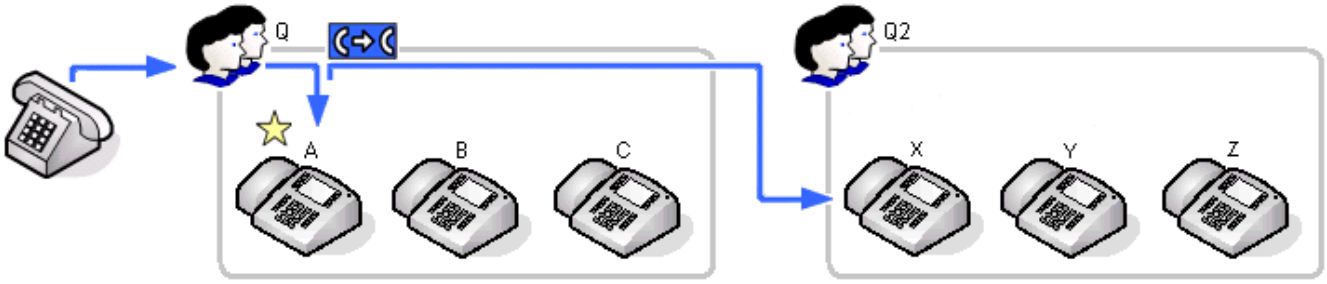
Agents	Answered Calls	Internal Made	Transferred
Agent A	1	0	1
Agent B	0	0	0
Agent C	0	0	0

Queues	Answered Calls	No Answer	Transferred
Queue Q	1	0	1
Queue Q2	1	0	0
TOTAL	2	0	1

Agents	Answered Calls	Internal Made	Transferred
Agent X	1	0	0
Agent Y	0	0	0
Agent Z	0	0	0

7.2.6 Queue Call Unsupervised Transfer to Agent

In this scenario the agent who answered an external call to the queue transfers it to an agent in another queue and completes the transfer without waiting to be answered.



Events	Queue Q	Agent A	Queue Q2	Agent X
• A call is routed to the queue.	Calls Waiting 1	–	–	–
• The call is presented to the first available agent.	Agents Ringing 1	–	–	–
• The call is answered.	Answered Calls 1	Answered Calls 1	–	–
• The call is put on hold pending transfer.	–	–	–	–
• The agent dials the transfer target.	–	–	–	–
• The agent completes the transfer without waiting to be answered.	Transferred 1	Transferred 1	–	–
• The call is answered.	–	–	–	Answered External Non Queue 1
Historical	**Answered Calls 1 Transferred 1**	**Answered Calls 1 Transferred 1**	**–**	**Answered External Non Queue 1**

Queues	Answered Calls	No Answer	Transferred
Queue Q	1	0	1
Queue Q2	0	0	0
TOTAL	1	0	1

Agents	Answered Calls	Internal Made	Transferred	Answered Ext Non Q
Agent A	1	0	1	0
Agent B	0	0	0	0
Agent C	0	0	0	0

Queues	Answered Calls	No Answer	Transferred
Queue Q	1	0	1
Queue Q2	0	0	0
TOTAL	1	0	1

Agents	Answered Calls	Internal Made	Transferred	Answered Ext Non Q
Agent X	0	0	0	1
Agent Y	0	0	0	0
Agent Z	0	0	0	0

The following is an example report, using the Call Details Report template, for an unsupervised transfer from a queue to an agent in another queue. It shows the initial call being answered, put on hold and then the initial call transferred.

CDR

From 02/12/2012 - 02/12/2012 07:55 - 17:00

Report type	Target Name	Supervisor Name
Call Details Report - All	Queue *	Mark Gallagher

Ungrouped

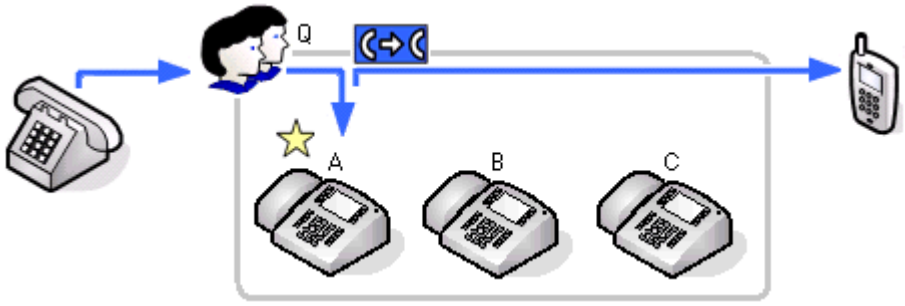
Date - Time	Call Direction	Number	DDI	Queue	Queue Time	Agent	Duration	Status	Reference
02/12/2012 07:55:44	**Inbound**	**01707364416**	**200**	**Queue**	**00:00:02**	**Agent A**	**00:00:07**	**New Call**	**000133**
02/12/2012 07:55:44	Inbound	01707364416	200	Queue		Agent A	00:00:07	Connected	000133
02/12/2012 07:55:46	Inbound	01707364416		Queue		Agent A	00:00:07	Holding	000133
02/12/2012 07:55:53	Inbound	01707364416	200	Queue		Agent X	00:00:04	Transferred	000133

Summary

Customer Calls	1	Internal Calls	0	External Inbound Calls	1
				Initiated Outbound Calls	0

7.2.7 Queue Call Unsupervised Transfer to Non-Agent

In this scenario the agent who answered an external call to the queue transfers it to an agent in another queue and completes the transfer without waiting to be answered.



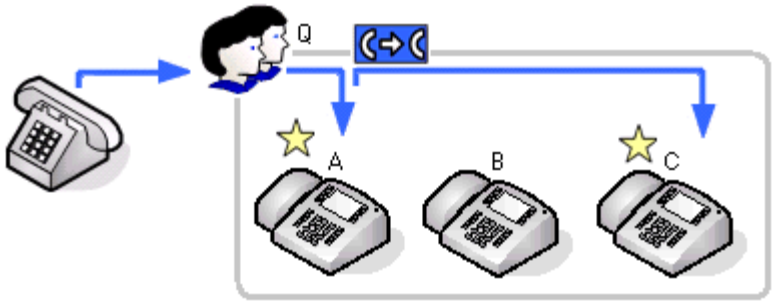
Events	Queue Q	Agent A
• A call is routed to the queue.	Calls Waiting 1	–
• The call is presented to the first available agent.	Agents Ringing 1	–
• The call is answered.	Answered Calls 1	Answered Calls 1
• The call is put on hold pending transfer.	–	–
• The agent dials the transfer target.	–	–
• The agent completes the transfer without waiting to be answered.	Transferred 1	Transferred 1
Historical	**Answered Calls 1 Transferred 1**	**Answered Calls 1 Transferred 1**

Queues	Answered Calls	No Answer	Transferred
Queue Q	1	0	1
Queue Q2	0	0	0
TOTAL	1	0	1

Agents	Answered Calls	Internal Made	Transferred
Agent A	1	0	1
Agent B	0	0	0
Agent C	0	0	0

7.2.8 Queue Call Unsupervised Transfer to Agent in Same Queue

In this scenario the agent who answered an external call to the queue transfers it to another agent in the same queue.



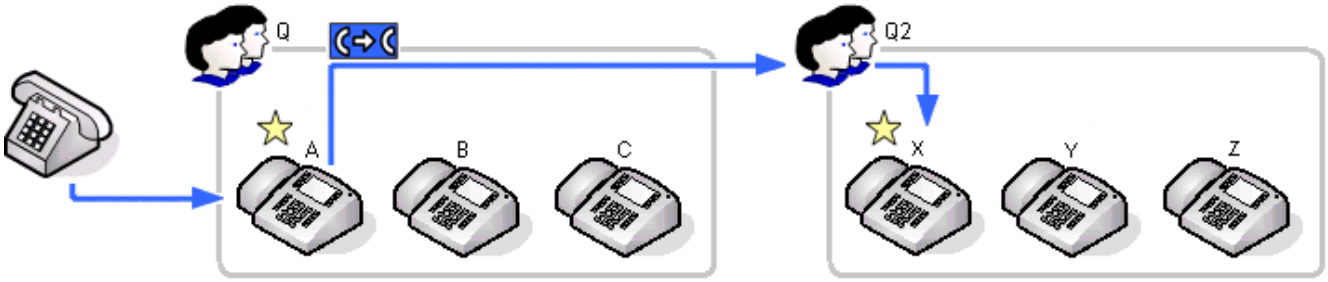
Events	Queue Q	Agent A	Agent C
• A call is routed to the queue.	Calls Waiting 1	–	–
• The call is presented to the first available agent.	Agents Ringing 1	–	–
• The call is answered.	Answered Call 1	Answered Calls 1	–
• The call is put on hold pending transfer.	–	–	–
• The agent dials the transfer target.	–	–	–
• The agent completes the transfer without waiting to be answered.	Transferred 1	Transferred 1	–
• The call is answered.	–	–	Answered External Non Queue 1
Historical	**Answered Call 1 Transferred 1**	**Answered Call 1 Transferred 1**	**Answered External Non Queue 1**

Queues	Answered Calls	No Answer	Transferred
Queue Q	1	0	1
Queue Q2	0	0	0
TOTAL	1	0	1

Agents	Answered Calls	Internal Made	Transferred	Answered Ext Non-Q
Agent A	1	0	1	0
Agent B	0	0	0	0
Agent C	0	0	0	1

7.2.9 Direct Call Supervised Transfer to Queue

In this scenario the agent who answered a direct call transfers it to another queue.



Events	Queue Q	Agent A	Queue Q2	Agent X
• An external call is routed direct to an agent.	–	–		
• The call is answered.	–	Answered External Non Queue 1		
• The call is put on hold pending transfer.	–	–	–	–
• The agent dials the transfer target.	–	Internal Made 1		
• The call is answered.	–	–	Answered Calls 1	Answered Calls 1
• The agent completes the transfer.	–	–	Answered Calls 1	Answered Calls 1
Historical	**–**	**Answered External Non Queue 1 Internal Made 1**	**Answered Calls 2**	**Answered Calls 2**

Queues	Answered Calls	No Answer	Transferred
Queue Q	0	0	0
Queue Q2	2	0	0
TOTAL	2	0	0

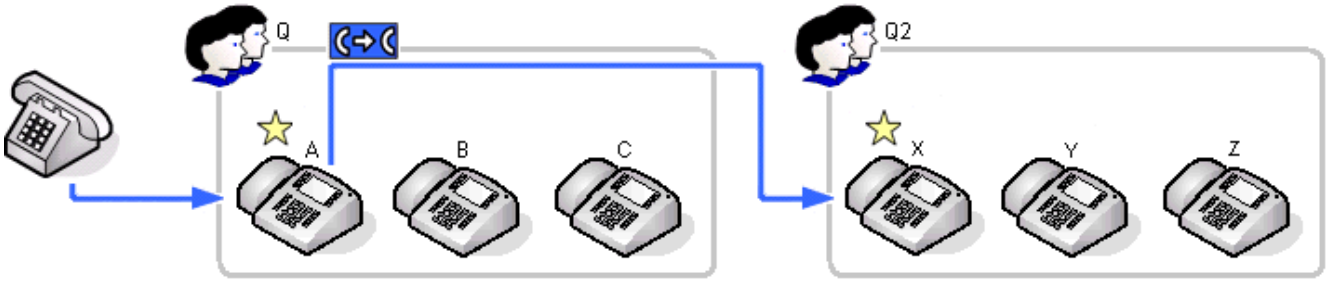
Agents	Answered Calls	Internal Made	Transferred	Answered Ext Non Q
Agent A	0	1	1	1
Agent B	0	0	0	0
Agent C	0	0	0	0

Queues	Answered Calls	No Answer	Transferred
Queue Q	0	0	0
Queue Q2	2	0	0
TOTAL	2	0	0

Agents	Answered Calls	Internal Made	Transferred	Answered Ext Non Q
Agent X	2	0	0	0
Agent Y	0	0	0	0
Agent Z	0	0	0	0

7.2.10 Direct Call Supervised Transfer to Agent

In this scenario an agent transfers a direct call to an agent in another queue.



Events	Queue Q	Agent A	Queue Q2	Agent X
• An external call is routed direct to an agent.	–	–	–	–
• The call is answered.	–	Answered External Non Queue 1	–	–
• The call is put on hold pending transfer.	–	–	–	–
• The agent dials the transfer target.	–	Internal Made 1	–	–
• The call is answered.	–	–	–	Answered Internal Non Queue 1
• The agent completes the transfer.	–	–	–	Answered External Non Queue 1
Historical	**–**	**Answered External Non Queue 1 Internal Made 1**	**–**	**Answered Internal Non Queue 1 Answered External Non Queue 1**

Queues	Answered Calls	No Answer	Transferred
Queue Q	0	0	0
Queue Q2	0	0	0
TOTAL	0	0	0

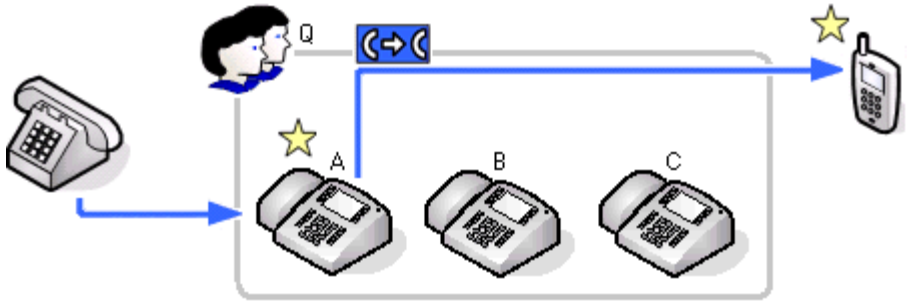
Agents	Answered Calls	Internal Made	Answered Ext Non Q	Answered Int Non Q	Transferred
Agent A	0	1	1	0	1
Agent B	0	0	0	0	0
Agent C	0	0	0	0	0

Queues	Answered Calls	No Answer	Transferred
Queue Q	0	0	0
Queue Q2	0	0	0
TOTAL	0	0	0

Agents	Answered Calls	Internal Made	Answered Ext Non Q	Answered Int Non Q	Transferred
Agent X	0	0	1	1	0
Agent Y	0	0	0	0	0
Agent Z	0	0	0	0	0

7.2.11 Direct Call Supervised Transfer to Non-Agent

In this scenario the agent transfers a direct call to a non-agent.



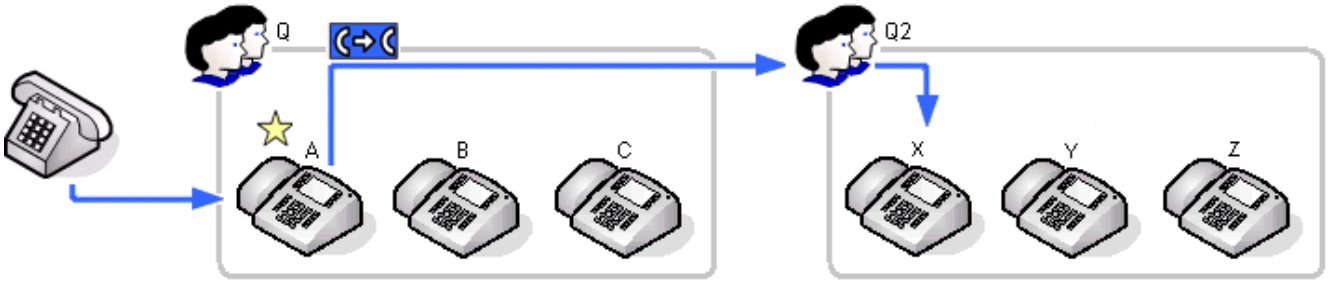
Events	Queue Q	Agent A
• An external call is routed direct to an agent.	–	–
• The call is answered.	Answered External Non-Queue 1	–
• The call is put on hold pending transfer.	–	–
• The agent dials the transfer target.	–	–
• The call is answered.	–	–
• The agent completes the transfer.	–	–
Historical	**Answered External Non-Queue 1**	**–**

Queues	Answered Calls	No Answer	Transferred
Queue Q	0	0	0
Queue Q2	0	0	0
TOTAL	0	0	0

Agents	Answered Calls	Internal Made	Transferred	Answered Ext Non Q
Agent A	0	0	1	1
Agent B	0	0	0	0
Agent C	0	0	0	0

7.2.12 Direct Call Unsupervised Transfer to Queue

In this scenario the agent transfers a direct call to another queue and completes the transfer without waiting to be answered.



Events	Queue Q	Agent A	Queue Q2	Agent X
• An external call is routed direct to an agent.	–			
• The call is answered.	–	Answered External Non Queue 1		
• The call is put on hold pending transfer.	–	–	–	–
• The agent dials the transfer target.	–	–		
• The agent completes the transfer without waiting to be answered.	–	–	Calls Waiting 1 Agents Ring 1	
• The call is answered.			Answered Calls 1	Answered Calls 1
Historical	**–**	**–**	**Answered Calls 1**	**Answered Calls 1**

Queues	Answered Calls	No Answer	Transferred
Queue Q	0	0	0
Queue Q2	1	0	0
TOTAL	1	0	0

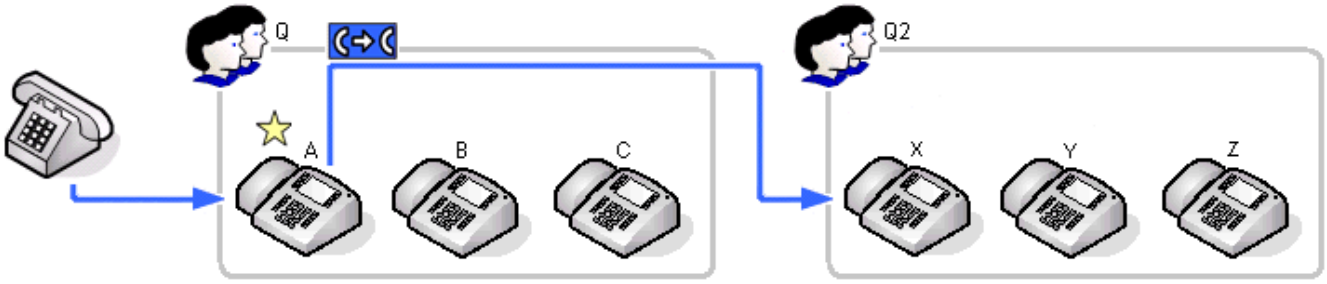
Agents	Answered Calls	Internal Made	Transferred	Answered Ext Non Q
Agent A	0	0	1	1
Agent B	0	0	0	0
Agent C	0	0	0	0

Queues	Answered Calls	No Answer	Transferred
Queue Q	0	0	0
Queue Q2	1	0	0
TOTAL	1	0	0

Agents	Answered Calls	Internal Made	Transferred	Answered Ext Non Q
Agent X	1	0	0	0
Agent Y	0	0	0	0
Agent Z	0	0	0	0

7.2.13 Direct Call Unsupervised Transfer to Agent

In this scenario the agent who answered a direct call transfers it to an agent in another queue and completes the transfer without waiting to be answered.



Events	Queue Q	Agent A	Queue Q2	Agent X
• An external call is routed direct to an agent.	–	–	–	–
• The call is answered.	–	Answered External Non Queue 1	–	–
• The call is put on hold pending transfer.	–	–	–	–
• The agent dials the transfer target.	–	–	–	–
• The agent completes the transfer without waiting to be answered.	–	–	–	–
• The call is answered.	–	–	–	Answered External Non Queue 1
Historical	**–**	**Answered External Non Queue 1**	**–**	**Answered External Non Queue 1**

Queues	Answered Calls	No Answer	Transferred
Queue Q	0	0	0
Queue Q2	0	0	0
TOTAL	0	0	0

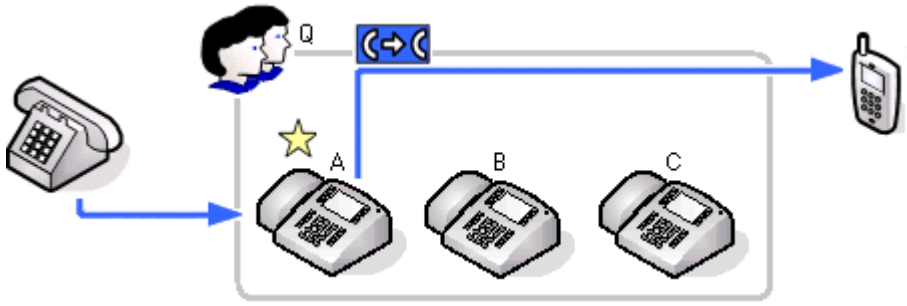
Agents	Answered Calls	Internal Made	Transferred	Answered Ext Non Q
Agent A	0	0	1	1
Agent B	0	0	0	0
Agent C	0	0	0	0

Queues	Answered Calls	No Answer	Transferred
Queue Q	0	0	0
Queue Q2	0	0	0
TOTAL	0	0	0

Agents	Answered Calls	Internal Made	Transferred	Answered Ext Non Q
Agent X	0	0	0	1
Agent Y	0	0	0	0
Agent Z	0	0	0	0

7.2.14 Direct Call Unsupervised Transfer to Non-Agent

In this scenario the agent who answered an external call to the queue transfers it to an agent in another queue and completes the transfer without waiting to be answered.



Events	Queue Q	Agent A
• An external call is routed direct to an agent.	–	–
• The call is answered.	–	Answered External Non Queue 1
• The call is put on hold pending transfer.	–	–
• The agent dials the transfer target.	–	–
• The agent completes the transfer without waiting to be answered.	–	–
• The call is answered.	–	–
Historical	–	**Answered External Non Queue 1**

Queues	Answered Calls	No Answer	Transferred
Queue Q	0	0	0
Queue Q2	0	0	0
TOTAL	0	0	0

Agents	Answered Calls	Internal Made	Transferred	Answered Ext Non Q
Agent A	0	0	1	1
Agent B	0	0	0	0
Agent C	0	0	0	0

7.3 Overflow Calls

- An overflowed call is any call originally targeted at the queue that then overflows using the queue's overflow settings. The overflowing calls are then presented to members of other queues.
- IP Office Customer Call Reporter only supports overflow using other IP Office Customer Call Reporter queues as the overflow destinations.

Hunt groups on the telephone system can be configured to use queuing when the number of calls waiting to be answered exceeds the number of available agents to which waiting calls can be presented. With queuing enabled the additional callers continue to be treated as if ringing even though they are queued.

Without queuing, when the hunt group become busy, addition calls go directly to the overflow destination if set, else to voicemail if available, else return busy to the caller.

IP Office Customer Call Reporter is only supported for queues (hunt groups) that use queuing.

Overflow Settings

Every queue can be configured by the telephone system maintainer with a number of overflow settings.

- **Overflow Group List**
  This is the key setting, which if set, enables overflow for the queue. The **Overflow Group List** is a list of other hunt groups whose members are used to answer overflowing calls. The list is used in sequential order, with the overflowed call being presented to the available agents in each group using the Ring Mode setting of that group. If still unanswered the overflowed call then goes to the next group in the list and eventually back to the overflowing group in a continuous loop until answered.
- **Overflow Time** (Optional)
  Use this setting to set a time after which a call will overflow. However, setting **Overflow Time** is not necessary to be able to use overflow, see *'When Do Calls Overflow?'* below.
- **Overflow Mode**
  By default, if the queue is using 'queuing', once one calls overflows all queued calls overflow. This can be switched off, with the overflow of each call being determined on a call by call basis.

When Do Calls Overflow?

If an **Overflow Group List** has been setup for a queue, calls will overflow when:

- For a queue without 'queuing' enabled, a call overflows immediately if there are no available agents.
- For a queue with 'queuing' enabled but no **Overflow Time** set, a call will overflow when it has been presented to but not answered by each of the available agents.
- For queues with 'queuing' enabled and an **Overflow Time** set, a call will be presented to available agents or wait in the queue until the overflow time expires at which point the call will overflow.
  - If the call is currently being presented to an agent when the overflow time expires, the call will complete ringing for the No Answer Time at that agent before it actually overflows.
- The default IP Office operation is to overflow all 'queued' calls once any one call has overflowed. However if required the IP Office can be switched to overflow calls using the rules above on a call by call basis.

How are Overflowed Calls Treated?

When a call overflows it still belongs to the original queue. The overflow list is used to expand the list of agents to whom the call can be presented for answer. The only setting of the hunt groups to which a call overflows that are applied are their own Ring Mode 344 and No Answer Time 342 settings. All other settings, including announcements and voicemail, applied to the call are those of the original queue. Similarly, for IP Office Customer Call Reporter, the call statistics belong to the overflowing queue.

For users to which the overflowed call is presented, the indication of the call source will be that of the queue from which it has overflowed.

Overflowed Calls and Statistics

For IP Office Customer Call Reporter statistics, calls overflowing from a queue are treated as follows unless specifically stated as otherwise for a particular statistic:

- Calls that overflow from a queue to another queue are included in the original queue's **Overflowed Calls** 247 statistic.
- Queue calls overflowing to a non-queue hunt group are not supported.
- For the queue which queue calls overflowed from:
  - The calls are not included in the queue's **Calls Waiting** 235, **Answered Calls** 224 and **Lost Calls** 243 statistics. Instead they are included in its **Overflowed Calls Waiting** 250, **Overflowed Answered** 249 and **Overflowed Lost** 252 statistics.
  - The calls are included in the queue's performance statistics; **Average Answer %** 229, **Average Answer Time** 231 and **Grade of Service** 238.
  - If the overflowing call goes to voicemail they are included in the queue's **Routed to Voicemail** 258 statistic.
  - If the overflowing call is routed to somewhere outside the queue and its overflows it is included in the queue's **Routed to Other** 344 statistics.
- For the queue which queue calls overflowed to:
  - The calls are only included in the queue's **Calls Waiting** 235 statistic.
  - For agents, the calls are included in their **Agent Call Share** 220, **Agent Productivity** 210, **Answered Calls** 224, **No Answer** 246, **Lost Calls** 243 , **Talk Average** 259, **Talk Inbound** 260, **Talk Inbound Average** 261, **Talk Internal** 262, **Talk Outbound** 263, **Talk Outbound Average** 264 and **Talk Total** 265 statistics.
- Once a call has overflowed it remains an overflowed call. This applies even if it is answered by a member of the original queue from which it overflowed.

The table below summarizes which statistics include calls overflowing from the queue and calls that overflow to a queue:

Statistic includes calls...	Overflowed from		Overflowed to	
	Queue	Agent	Queue	Agent
Agents Call Share 220	-	-	-	✓
Agents Ringing 223	-	-	-	-
Answered Calls 224	✗	✗	✗	✓
Answered Internal (Queue) 228	✗	✗	✗	✓
Average Answer % 229	✓	✗	✗	✗
Average Answer Time 231	✓	✗	✗	✗
Calls Waiting 235	✗	✗	✓	✓
Grade of Service 238	✓	✗	✗	✗
Lost Calls 243	✗	✗	✗	✓
Overflowed Answered 249	✓	-	✗	-
Overflowed Calls 247	✓	-	✗	-
Overflowed Calls Waiting 250	✓	-	✗	-
Overflowed Lost 252	✓	-	✗	-
No Answer 246	✗	✗	✗	✓
Routed to Other 257	✓	✗	✗	✗
Routed to Voicemail 258	✓	✗	✗	✗
Transferred 266	✓	✗	✗	✗

- Statistics not included in the table and those marked - are not applicable.

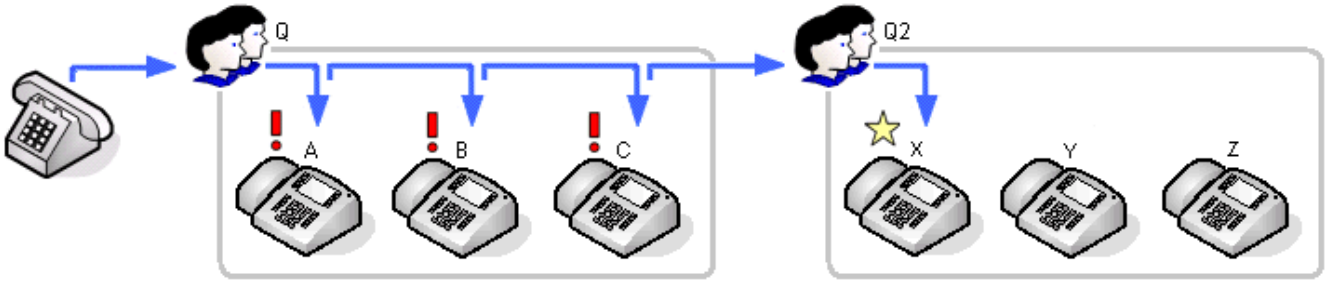
Overflowed Calls and Reports

Queue reports based on the Call Summary Report 59 template will report overflowed calls against the queue from which they overflowed. They will not report the calls against the queue to which they overflow.

Queue reports based on the Call Details Report 56 template will behave the same as reports based on the Call Summary report above except when grouped by ***Queue***. When grouped by ***Queue***, the report reports overflowed calls against both the queue from which they overflowed and against the group to which they overflowed.

7.3.1 Unanswered Call Overflows and is Answered

This scenario shows a call being presented to and not answered by any of the agents in a queue and so overflowing. The call is then answered by the first agent in the overflow to which it is presented.



Events	Queue Q	Agent A	Agent B	Agent C	Queue Q2	Agent X
• A call is routed to the queue.	Calls Waiting 1	–	–	–	–	–
• The call is presented to the first available agent.	Agents Ringing 1	–	–	–	–	–
• The call is not answered.	No Answer 1	No Answer 1	–	–	–	–
• The call is presented to the next available agent.	Agents Ringing 1	–	–	–	–	–
• The call is not answered.	No Answer 1	–	No Answer 1	–	–	–
• The call is presented to the next available agent.	Agents Ringing 1	–	–	–	–	–
• The call is not answered.	No Answer 1	–	–	No Answer 1	–	–
• The call overflows to another queue.	Overflowed Calls 1	–	–	–	Calls Waiting 1	–
• The call is presented to the first available agent.	Overflowed Calls Waiting 1	–	–	–		–
• The call is answered.	Overflowed Answered 1	–	–	–	–	Answered Calls 1
Historical	**No Answer 3 Overflowed Calls 1 Overflowed Answered 1**	**No Answer 1**	**No Answer 1**	**No Answer 1**	**–**	**Answered Calls 1**

Queues	Answered Calls	No Answer	Lost Calls	Overflowed Calls	Overflowed Answered	Overflowed Lost
Queue Q	0	3	0	1	1	0
Queue Q2	0	0	0	0	0	0
TOTAL	0	3	0	1	1	0

Agents	Answered Calls	No Answer	Lost Calls
Agent A	0	1	0
Agent B	0	1	0
Agent C	0	1	0

Queues	Answered Calls	No Answer	Lost Calls	Overflowed Calls	Overflowed Answered	Overflowed Lost
Queue Q	0	3	0	1	1	0
Queue Q2	0	0	0	0	0	0
TOTAL	0	3	0	1	1	0

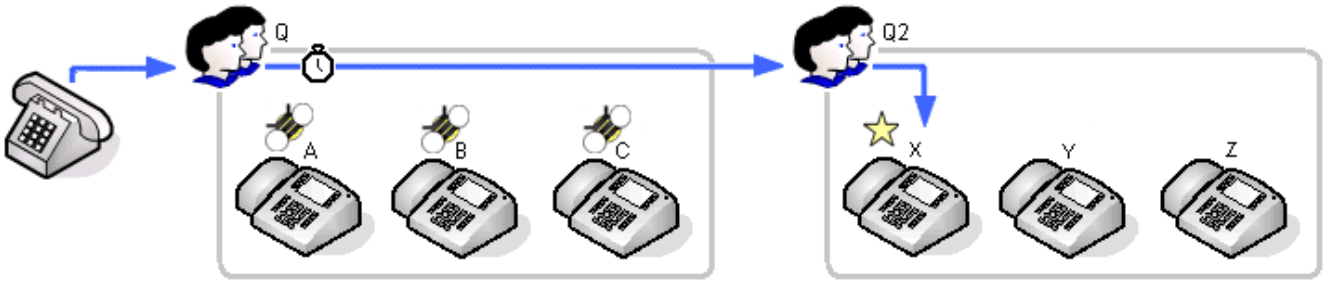
Agents	Answered Calls	No Answer	Lost Calls
Agent X	1	0	0
Agent Y	0	0	0
Agent Z	0	0	0

Notes:

- The overflowed call is included in the specific overflow statistics of the queue from which it overflowed.
- The overflowed call is included in the performance statistics of the queue from which it overflowed.
- The overflowed call is not included in any queue statistics of the queue to which it overflowed except the Call Waiting statistic while the call was waiting to be answered.
- The overflowed call is included in the answered, lost and no answer statistics of the agents in the queue to which it overflowed.

7.3.2 Overflowed and Answered by 1st Agent

In this scenario the queue has queuing enabled and an overflow time set. An external call to the queue is queued to be answered as there are no available agents. When the overflow timeout expires the call overflows. The call is then answered by the first agent in the overflow to which it is presented.



Events	Queue Q	Queue Q2	Agent X
• A call is routed to the queue.	Calls Waiting 1	–	–
• The call overflows to another queue.	Overflowed Calls 1	Calls Waiting 1	–
• The call is presented to the first available agent.	Overflowed Calls Waiting 1	Calls Waiting 1	–
• The call is answered.	Overflowed Answered 1	–	Answered Calls 1
Historical	**Overflowed Calls 1** **Overflowed Answered 1**	**–**	Answered Calls 1

Queues	Answered Calls	No Answer	Lost Calls	Overflowed Calls	Overflowed Answered	Overflowed Lost
Queue Q	0	0	0	1	1	0
Queue Q2	0	0	0	0	0	0
TOTAL	0	0	0	1	1	0

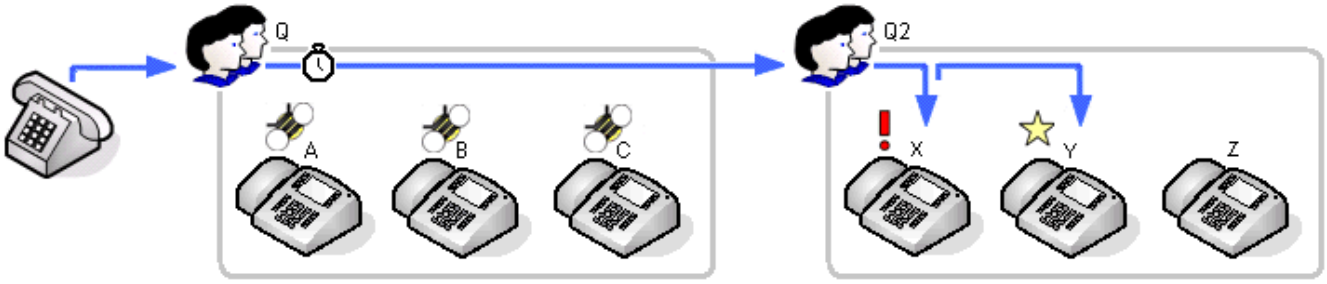
Agents	Answered Calls	No Answer	Lost Calls
Agent X	1	0	0
Agent Y	0	0	0
Agent Z	0	0	0

Notes:

- The overflowed call is included in the specific overflow statistics of the queue from which it overflowed.
- The overflowed call is included in the performance statistics of the queue from which it overflowed.
- The overflowed call is not included in any queue statistics of the queue to which it overflowed except the Call Waiting statistic while the call was waiting to be answered.
- The overflowed call is included in the answered, lost and no answer statistics of the agents in the queue to which it overflowed.

7.3.3 Overflowed and Answered by 2nd Agent

In this scenario, the call overflows but is not answered by the first agent in the overflow to which it is presented, however it is answered by the next available agent.



Events	Queue Q	Queue Q2	Agent X	Agent Y
• A call is routed to the queue.	Calls Waiting 1	–	–	–
• The call overflows to another queue.	Overflowed Calls 1	Calls Waiting 1	–	–
• The call is presented to the first available agent.	Overflowed Calls Waiting 1	Calls Waiting 1	–	–
• The call is not answered.	–	Calls Waiting 1	–	–
• The call is presented to the first available agent.	–	Calls Waiting 1	No Answer 1	–
• The call is answered.	Overflowed Answered 1	–	–	Answered Calls 1
Historical	**Overflowed Calls 1** **Overflowed Answered 1**	**–**	**No Answer 1**	**Answered Calls 1**

Queues	Answered Calls	No Answer	Lost Calls	Overflowed Calls	Overflowed Answered	Overflowed Lost
Queue Q	0	0	0	1	1	0
Queue Q2	0	0	0	0	0	0
TOTAL	0	0	0	1	1	0

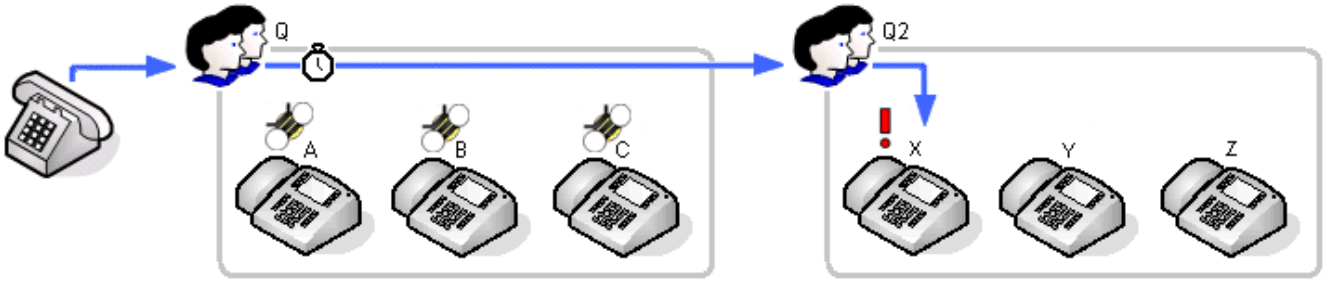
Agents	Answered Calls	No Answer	Lost Calls
Agent X	0	1	0
Agent Y	1	0	0
Agent Z	0	0	0

Notes:

- The overflowed call is included in the specific overflow statistics of the queue from which it overflowed.
- The overflowed call is included in the performance statistics of the queue from which it overflowed.
- The overflowed call is not included in any queue statistics of the queue to which it overflowed except the Call Waiting statistic while the call was waiting to be answered.
- The overflowed call is included in the answered, lost and no answer statistics of the agents in the queue to which it overflowed.

7.3.4 Overflowed and Lost

In this scenario, after the call overflows the caller disconnects before the call can be answered.



Events	Queue Q	Queue Q2	Agent X
• A call is routed to the queue.	Calls Waiting 1	–	–
• The call overflows to another queue.	Overflowed Calls 1	Calls Waiting 1	
• The call is presented to the first available agent.	Overflowed Calls Waiting 1		–
• The caller hangs up.	Overflowed Lost 1	–	Lost Calls 1
Historical	**Overflowed Calls 1** **Overflowed Lost 1**	**–**	**Lost Calls 1**

Queues	Answered Calls	No Answer	Lost Calls	Overflowed Calls	Overflowed Answered	Overflowed Lost
Queue Q	0	0	0	1	0	1
Queue Q2	0	0	0	0	0	0
TOTAL	0	0	0	1	0	1

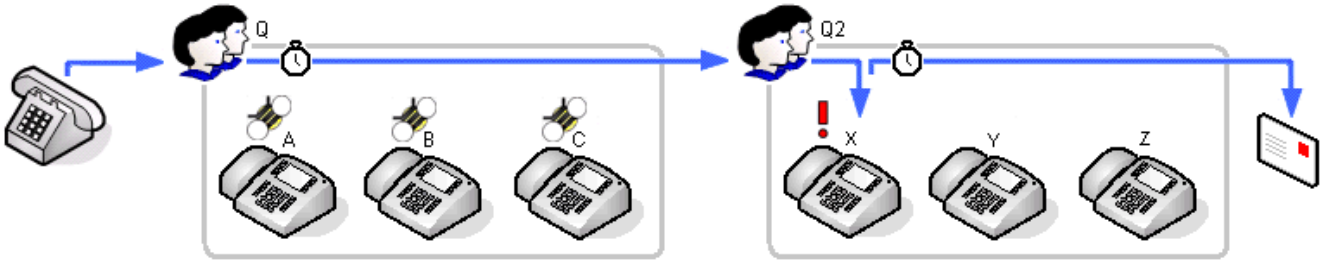
Agents	Answered Calls	No Answer	Lost Calls
Agent X	0	0	1
Agent Y	0	0	0
Agent Z	0	0	0

Notes:

- The overflowed call is included in the specific overflow statistics of the queue from which it overflowed.
- The overflowed call is included in the performance statistics of the queue from which it overflowed.
- The overflowed call is not included in any queue statistics of the queue to which it overflowed except the Call Waiting statistic while the call was waiting to be answered.
- The overflowed call is included in the answered, lost and no answer statistics of the agents in the queue to which it overflowed.

7.3.5 Overflow and Timed Out to Voicemail

In this scenario after a call overflows, the queue's voicemail timeout occurs. The call will then go to the original queue's voicemail mailbox.



Events	Queue Q	Queue Q2	Agent X
• A call is routed to the queue.	Calls Waiting 1	–	–
• The call overflows to another queue.	Overflowed Calls 1 Overflowed Calls Waiting 1	Calls Waiting 1	
• The call is presented to the first available agent.			–
• While being presented the call times out to voicemail.	Routed to Voicemail 1	–	–
Historical	**Overflowed Calls 1 Routed to Voicemail 1**	**–**	**–**

Queues	Answered Calls	No Answer	Lost Calls	Overflowed Calls	Overflowed Answered	Routed to Voicemail
Queue Q	0	0	0	1	0	1
Queue Q2	0	0	0	0	0	0
TOTAL	0	0	0	1	0	1

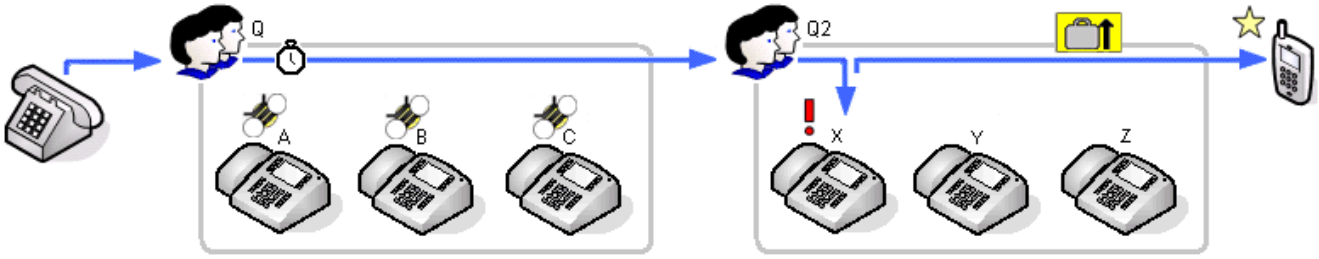
Agents	Answered Calls	No Answer	Lost Calls
Agent X	0	0	0
Agent Y	0	0	0
Agent Z	0	0	0

Notes:

- The overflowed call is included in the specific overflow statistics of the queue from which it overflowed.
- The overflowed call is included in the performance statistics of the queue from which it overflowed.
- The overflowed call is not included in any queue statistics of the queue to which it overflowed except the Call Waiting statistic while the call was waiting to be answered.
- The overflowed call is included in the answered, lost and no answer statistics of the agents in the queue to which it overflowed.
- The call is included in the **Routed to Voicemail** statistic of the queue from which it overflowed.

7.3.6 Overflowed Call Picked Up

In this scenario the overflowed call is pickup by someone outside the original and overflow queue.



Events	Queue Q	Queue Q2	Agent X
• A call is routed to the queue.	Calls Waiting 1	–	–
• The call overflows to another queue.	Overflowed Calls 1 Overflowed Calls Waiting 1	Calls Waiting 1	–
• The call is presented to the first available agent.			–
• While being presented the call times out to voicemail.	Routed to Voicemail 1	–	–
Historical	**Overflowed Calls 1 Routed to Other 1**	**–**	**–**

Queues	Answered Calls	No Answer	Lost Calls	Overflowed Calls	Overflowed Answered	Routed to Other
Queue Q	0	0	0	1	0	1
Queue Q2	0	0	0	0	0	0
TOTAL	0	0	0	1	0	1

Agents	Answered Calls	No Answer	Lost Calls
Agent X	0	0	0
Agent Y	0	0	0
Agent Z	0	0	0

Notes:

- The overflowed call is included in the specific overflow statistics of the queue from which it overflowed.
- The overflowed call is included in the performance statistics of the queue from which it overflowed.
- The overflowed call is not included in any queue statistics of the queue to which it overflowed except the Call Waiting statistic while the call was waiting to be answered.
- The overflowed call is included in the answered, lost and no answer statistics of the agents in the queue to which it overflowed.
- The overflowed call is included in the **Routed to Other** statistic of the queue from which it overflowed. The same would apply even if the call had been picked up by an agent in the original queue or the overflow queue.

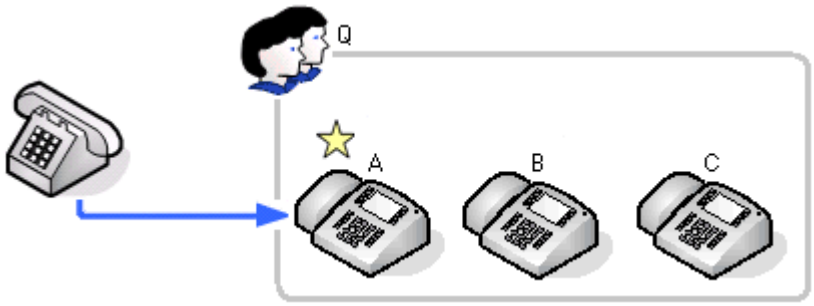
7.4 Non-Queue Calls (Direct Calls)

The terms 'non-queue call' or 'direct call' are used for calls targeted directly at a particular agent rather than at the queue to which they belong.

While handling a direct call and agent will not be presented with queue calls and will be indicated as Busy Non-Q.

7.4.1 Direct External Call to Agent (Answered)

An external call is targeted directly to an agent. The agent answers the call.



Events	Queue Q	Agent A
• An external call is routed direct to an agent.	–	–
• The call is answered.	–	Answered External (Non Queue) 1
Historical	–	**Answered External (Non Queue) 1**

Queues	Answered Calls	No Answer	Lost Calls	Routed To Other	Routed To Voicemail
Queue Q	0	0	0	0	0
TOTAL	0	0	0	0	0

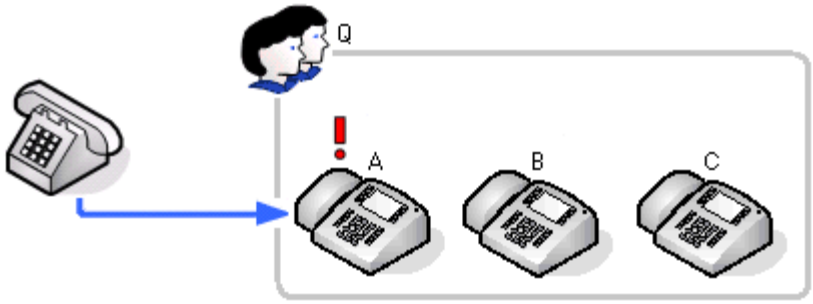
Agent	Answered Calls	No Answer	Lost Calls	Routed To Other	Answered Ext Non-Q
Agent A	0	0	0	0	1
Agent B	0	0	0	0	0
Agent C	0	0	0	0	0

Notes:

- Except for affecting the agent's state, direct calls 339 to an agent are not recorded unless the agent answers the call.
- The agent states used for direct calls are **Ring Non-Q** 344 and when connected **Busy Non-Q** 338.
- Direct calls are not recorded against any queue to which the agent belongs.

7.4.2 Direct External Call to Agent (Unanswered)

An external call is targeted directly to an agent. The agent does not answer and the caller disconnects.



Events	Queue Q	Agent A
• An external call is routed direct to an agent.	–	–
• The call is not answered.	–	–
• The caller hangs up.	–	Lost Calls 1
Historical	–	–

Queues	Answered Calls	No Answer	Lost Calls	Routed To Other	Routed To Voicemail
Queue Q	0	0	0	0	0
TOTAL	0	0	0	0	0

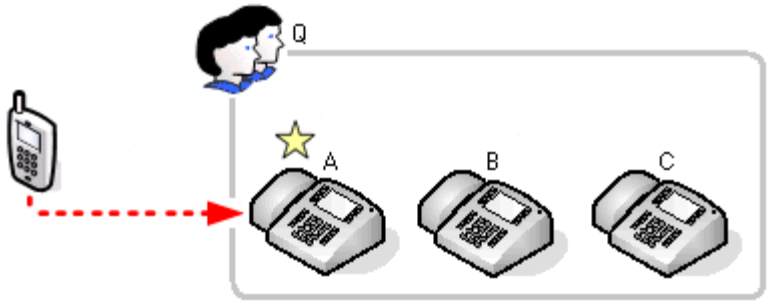
Agent	Answered Calls	No Answer	Lost Calls	Routed To Other
Agent A	0	0	1	0
Agent B	0	0	0	0
Agent C	0	0	0	0

Notes:

- Except for affecting the agent's state, direct calls 339 to an agent are not recorded unless the agent answers the call.
- The agent states used for direct calls are **Ring Non-Q** 344 and when connected **Busy Non-Q** 338.
- Direct calls are not recorded against any queue to which the agent belongs.
- Since the call was not targeted at a queue, it is not recorded as a lost call for the agent or queue.

7.4.3 Internal Call Direct to Agent (Answered)

An internal call to an agent. The agent answers.



Events	Queue Q	Agent A
• An external call is routed direct to an agent.	–	
• The call is answered.	–	Answered Internal (Non-Queue) 1
Historical	–	**Answered Internal (Non-Queue) 1**

Queues	Answered Calls	No Answer	Lost Calls	Routed To Other	Routed To Voicemail
Queue Q	0	0	0	0	0
TOTAL	0	0	0	0	0

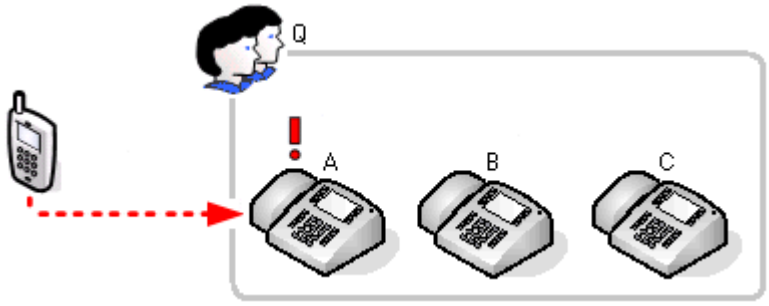
Agent	Answered Calls	No Answer	Lost Calls	Routed To Other	Answered Int Non-Q
Agent A	0	0	0	0	1
Agent B	0	0	0	0	0
Agent C	0	0	0	0	0

Notes:

- Except for affecting the agent's state, direct calls 339 to an agent are not recorded unless the agent answers the call.
- The agent states used for direct calls are **Ring Non-Q** 344 and when connected **Busy Non-Q** 338.
- Direct calls are not recorded against any queue to which the agent belongs.

7.4.4 Internal Call Direct to Agent (Unanswered)

An internal call to an agent who does not answer. Since this is not a call targeted to a queue, it is not recorded as a lost call. It would be displayed in statistics only if the agent has answered the call 309.



Events	Queue Q	Agent A
• An external call is routed direct to an agent.	–	–
• The call is not answered.	–	–
• The caller hangs up.	–	Lost Calls 1
Historical	–	–

Queues	Answered Calls	No Answer	Lost Calls	Routed to Other	Routed to Voicemail
Queue Q	0	0	0	0	0
TOTAL	0	0	0	0	0

Agent	Answered Calls	No Answer	Lost Calls	Routed to Other
Agent A	0	0	1	0
Agent B	0	0	0	0
Agent C	0	0	0	0

Notes:

- Except for affecting the agent's state, direct calls 339 to an agent are not recorded unless the agent answers the call.
- The agent states used for direct calls are **Ring Non-Q** 344 and when connected **Busy Non-Q** 338.
- Direct calls are not recorded against any queue to which the agent belongs.
- Since the call was not targeted at a queue, it is not recorded as a lost call for the agent or queue.

7.5 Voicemail

For direct calls to an agent, if the call goes to voicemail, it is reported as **Routed to Voicemail**.

Queue calls can be routed to voicemail if the queue has a **Voicemail Answer Time** set. This time is applied from the when a call is presented to a queue and if it expires the call is routed to voicemail and recorded as such in the **Routed to Voicemail** statistic of the queue and the last agent to which it was presented. Voicemail is used immediately the timeout expires regardless of how long the call has been ring an agent.

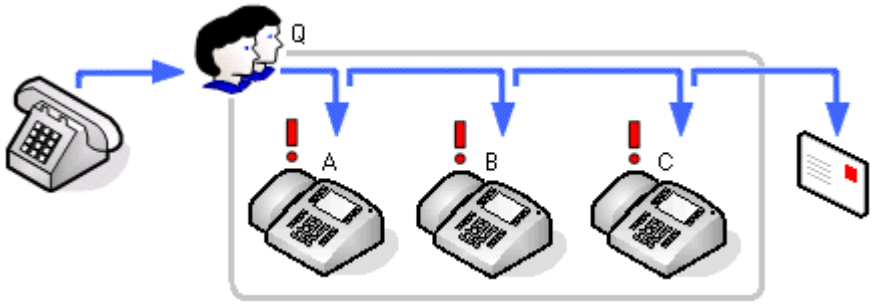
Other statistics (**Answered Calls**, **Lost Calls**, **Overflowed Answered**, **Overflowed Lost** etc.) are not incremented by queue calls that go to voicemail and are then waiting to be answered, answered or lost.

If using Voicemail Pro, details of what happened to calls that go to voicemail can be reported using reports based on the Voicemail Report 64 template.

Note that assisted transfers from the voicemail server to a queue or agent are not supported by IP Office Customer Call Reporter.

7.5.1 Queue Call Timed Out to Voicemail

An external call is targeted to a queue. The call is presented to each available agent in turn but remains unanswered. When the queue's voicemail timeout occurs the call goes to the queue's voicemail mailbox immediately.



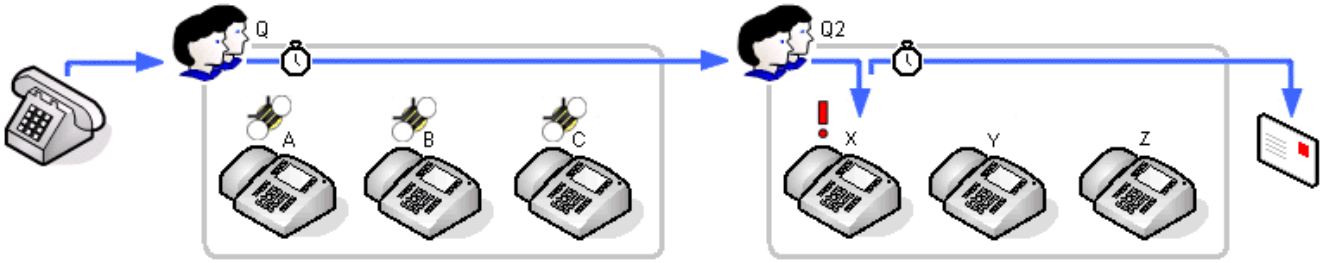
Events	Queue Q	Agent A	Agent B	Agent C
• A call is routed to the queue.	Calls Waiting 1	–	–	–
• The call is presented to the first available agent.	Agents Ringing 1	–	–	–
• The call is not answered.	No Answer 1	No Answer 1	–	–
• The call is presented to the next available agent.	Agents Ringing 1	–	–	–
• The call is not answered.	No Answer 1	–	No Answer 1	–
• The call is presented to the next available agent.	Agents Ringing 1	–	–	–
• The call is not answered.		–	–	No Answer 1
• While being presented the call times out to voicemail.	Routed to VM 1	–	–	–
• The caller leaves a message.	New Messages 1			
Historical	**No Answer 2 Routed to VM 1 New Messages 1**	**No Answer 1**	**No Answer 1**	**No Answer 1**

Queues	Answered Calls	No Answer	Lost Calls	Routed to Other	Routed to Voicemail
Queue Q	0	3	0	0	1
TOTAL	0	3	0	0	1

Agents	Answered Calls	No Answer	Lost Calls	Routed to Other
Agent A	0	1	0	0
Agent B	0	1	0	0
Agent C	0	1	0	0

7.5.2 Overflow and Timed Out to Voicemail

In this scenario after a call overflows, the queue's voicemail timeout occurs. The call will then go to the original queue's voicemail mailbox.



Events	Queue Q	Queue Q2	Agent X
• A call is routed to the queue.	Calls Waiting 1	–	–
• The call overflows to another queue.	Overflowed Calls 1 Overflowed Calls Waiting 1	Calls Waiting 1	
• The call is presented to the first available agent.			–
• While being presented the call times out to voicemail.	Routed to Voicemail 1	–	–
Historical	**Overflowed Calls 1 Routed to Voicemail 1**	**–**	**–**

Queues	Answered Calls	No Answer	Lost Calls	Overflowed Calls	Overflowed Answered	Routed to Voicemail
Queue Q	0	0	0	1	0	1
Queue Q2	0	0	0	0	0	0
TOTAL	0	0	0	1	0	1

Agents	Answered Calls	No Answer	Lost Calls
Agent X	0	0	0
Agent Y	0	0	0
Agent Z	0	0	0

Notes:

- The overflowed call is included in the specific overflow statistics of the queue from which it overflowed.
- The overflowed call is included in the performance statistics of the queue from which it overflowed.
- The overflowed call is not included in any queue statistics of the queue to which it overflowed except the Call Waiting statistic while the call was waiting to be answered.
- The overflowed call is included in the answered, lost and no answer statistics of the agents in the queue to which it overflowed.
- The call is included in the **Routed to Voicemail** statistic of the queue from which it overflowed.

7.6 CSR/CDR Behavior

This section provides a number of examples of the Call Summary report generated by IP Office Customer Call Reporter for different call scenarios.

7.6.1 Queue Call Supervised Transfer to Queue

An external call is targeted to queue HG1. The call is answered by the first available agent Extn101. Then Extn101 transfers the call to another queue HG2 where the call is answered by the first available agent Extn201.

The Call Summary report with the target Agent is as follows:

Call Summary Report-Agent

11/1/2012 - 11/1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	Agent *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
Extn101	1	1	1	0	0	0	0	0	1	0	-	4.0	-	-
Extn201	1	1	1	0	0	0	0	0	0	0	-	11.0	-	-

Customer Calls	1	Handled Calls	2	Transferred Calls	1
		Answered Calls	2	No Answer (Timeout)	0
		Lost Calls	0	Avg. Answer Time (%)	-
		Overflowed Answered	0	Avg. Answer Time	7.5
		Overflowed Lost	0	Avg. Abandon Time	-
		Routed To Voicemail	0	Grade of Service (%)	-
		Routed To Other	0	Answer Threshold	600
				Lost Call Threshold	1
				Initiated Outbound Calls	0

The Call Summary report with the target Queue is as follows:

Call Summary Report-Q

11/1/2012 - 11/1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	Queue *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
HG1	1	1	1	0	0	0	0	0	1	0	100	4.0	-	100.00
HG2	1	1	1	0	0	0	0	0	0	0	100	11.0	-	100.00

Customer Calls	1	Handled Calls	2	Transferred Calls	1
		Answered Calls	2	No Answer (Timeout)	0
		Lost Calls	0	Avg. Answer Time (%)	100
		Overflowed Answered	0	Avg. Answer Time	7.5
		Overflowed Lost	0	Avg. Abandon Time	-
		Routed To Voicemail	0	Grade of Service (%)	100.00
		Routed To Other	0	Answer Threshold	600
				Lost Call Threshold	1
				Initiated Outbound Calls	0

The Call Summary report with the target DDI is as follows:

Call Summary Report-DDI

11/ 1/2012 - 11/ 1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	DDI *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
501@192.168.177.16	1	2	2	0	0	0	0	0	1	0	100	7.5	-	100.00

Customer Calls	1	Handled Calls	2	Transferred Calls	1
		Answered Calls	2	No Answer (Timeout)	0
		Lost Calls	0	Avg. Answer Time (%)	100
		Overflowed Answered	0	Avg. Answer Time	7.5
		Overflowed Lost	0	Avg. Abandon Time	-
		Routed To Voicemail	0	Grade of Service (%)	100.00
		Routed To Other	0	Answer Threshold	600
				Lost Call Threshold	1
				Initiated Outbound Calls	0

Note that the number of **Answered Calls** is 2 because the external call is answered twice, first by queue HG1 and then by queue HG2.

The Call Details report with the target DDI displays the call flow as follows:

Call Details Report-DDI

11/ 1/2012 - 11/ 1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Details Report - All	DDI *	Supervisor1

Time Stamp	Call Direction	Number	DDI	Queue	Queue Time	Agent	Duration	Status	Reference
Ungrouped									
11/ 1/2012 1:47:15 PM	**Inbound**	**Extn2101@192.168.177.17**	501@192.168.177.16	**HG1**	**00:00:04**	**Extn101**	**00:00:22**	**New Call**	**000011**
11/ 1/2012 1:47:15 PM	Inbound	Extn2101@192.168.177.17	501@192.168.177.16	HG1		Extn101	00:00:11	Connected	000011
11/ 1/2012 1:47:26 PM	Inbound	Extn2101@192.168.177.17	501@192.168.177.16	HG1		Extn101	00:00:11	Holding	000011
11/ 1/2012 1:47:37 PM	**Inbound**	**Extn2101@192.168.177.17**	501@192.168.177.16	**HG2**	**00:00:11**	**Extn201**	**00:00:06**	**New Call**	**000011**
11/ 1/2012 1:47:37 PM	Inbound	Extn2101@192.168.177.17	501@192.168.177.16	HG1		Extn101		Transferred	000011
11/ 1/2012 1:47:37 PM	Inbound	Extn2101@192.168.177.17	501@192.168.177.16	HG2		Extn201	00:00:06	Connected	000011

Summary

Customer Calls	1	Internal Calls	0	External Inbound Calls	1
				Initiated Outbound Calls	0

7.6.2 Queue Call Multiple Transfers

An external call is targeted to queue HG1. The first available agent Extn101 answers the call. Then Extn101 transfers the call to another queue HG2 where the call is answered by the first available agent Extn201. Similarly, Extn201 transfers the call to HG3 to be answered by Extn301.

The Call Summary report with the target Agent is as follows:

Call Summary Report-Agent

11/ 1/2012 - 11/ 1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	Agent *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
Extn201	1	1	1	0	0	0	0	0	1	0	-	6.0	-	-
Extn301	1	1	1	0	0	0	0	0	1	0	-	11.0	-	-
Extn401	1	1	1	0	0	0	0	0	0	0	-	11.0	-	-

Customer Calls	1	Handled Calls	3	Transferred Calls	2
		Answered Calls	3	No Answer (Timeout)	0
		Lost Calls	0	Avg. Answer Time (%)	-
		Overflowed Answered	0	Avg. Answer Time	9.3
		Overflowed Lost	0	Avg. Abandon Time	-
		Routed To Voicemail	0	Grade of Service (%)	-
		Routed To Other	0	Answer Threshold	600
				Lost Call Threshold	1
				Initiated Outbound Calls	0

The Call Summary report with the target Queue is as follows:

Call Summary Report-Q

11/ 1/2012 - 11/ 1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	Queue *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
HG1	1	1	1	0	0	0	0	0	1	0	100	6.0	-	100.00
HG2	1	1	1	0	0	0	0	0	1	0	100	11.0	-	100.00
HG3	1	1	1	0	0	0	0	0	0	0	100	11.0	-	100.00

Customer Calls	1	Handled Calls	3	Transferred Calls	2
		Answered Calls	3	No Answer (Timeout)	0
		Lost Calls	0	Avg. Answer Time (%)	100
		Overflowed Answered	0	Avg. Answer Time	9.3
		Overflowed Lost	0	Avg. Abandon Time	-
		Routed To Voicemail	0	Grade of Service (%)	100.00
		Routed To Other	0	Answer Threshold	600
				Lost Call Threshold	1
				Initiated Outbound Calls	0

The Call Summary report with the target DDI is as follows:

Call Summary Report-DDI

11/ 1/2012 - 11/ 1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	DDI *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
501@192.168.177.16	1	3	3	0	0	0	0	0	2	0	100	9.3	-	100.00

Customer Calls	1	Handled Calls	3	Transferred Calls	2
		Answered Calls	3	No Answer (Timeout)	0
		Lost Calls	0	Avg. Answer Time (%)	100
		Overflowed Answered	0	Avg. Answer Time	9.3
		Overflowed Lost	0	Avg. Abandon Time	-
		Routed To Voicemail	0	Grade of Service (%)	100.00
		Routed To Other	0	Answer Threshold	600
				Lost Call Threshold	1
				Initiated Outbound Calls	0

Note that the number of **Answered Calls** is 3 because the external call is answered three times, by queues HG1, HG2, and HG3.

The Call Details report with the target DDI displays the call flow as follows:

Call Details Report-DDI

11/ 1/2012 - 11/ 1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Details Report - All	DDI *	Supervisor1

Time Stamp	Call Direction	Number	DDI	Queue	Queue Time	Agent	Duration	Status	Reference
Ungrouped									
11/ 1/2012 2:43:44 PM	**Inbound**	**Extn2101@192.168.177.17**	501@192.168.177.16	**HG1**	**00:00:06**	**Extn101**	**00:00:15**	**New Call**	**000017**
11/ 1/2012 2:43:44 PM	Inbound	Extn2101@192.168.177.17	501@192.168.177.16	HG1		Extn101	00:00:04	Connected	000017
11/ 1/2012 2:43:48 PM	Inbound	Extn2101@192.168.177.17	501@192.168.177.16	HG1		Extn101	00:00:11	Holding	000017
11/ 1/2012 2:43:59 PM	**Inbound**	**Extn2101@192.168.177.17**	501@192.168.177.16	**HG2**	**00:00:11**	**Extn201**	**00:00:14**	**New Call**	**000017**
11/ 1/2012 2:43:59 PM	Inbound	Extn2101@192.168.177.17	501@192.168.177.16	HG1		Extn101		Transferred	000017
11/ 1/2012 2:43:59 PM	Inbound	Extn2101@192.168.177.17	501@192.168.177.16	HG2		Extn201	00:00:04	Connected	000017
11/ 1/2012 2:44:03 PM	Inbound	Extn2101@192.168.177.17	501@192.168.177.16	HG2		Extn201	00:00:10	Holding	000017
11/ 1/2012 2:44:14 PM	**Inbound**	**Extn2101@192.168.177.17**	501@192.168.177.16	**HG3**	**00:00:11**	**Extn301**	**00:00:05**	**New Call**	**000017**
11/ 1/2012 2:44:14 PM	Inbound	Extn2101@192.168.177.17	501@192.168.177.16	HG2		Extn201		Transferred	000017
11/ 1/2012 2:44:14 PM	Inbound	Extn2101@192.168.177.17	501@192.168.177.16	HG3		Extn301	00:00:05	Connected	000017

Summary

Customer Calls	**1**	**Internal Calls**	**0**	**External Inbound Calls**	**1**
				Initiated Outbound Calls	**0**

7.6.3 Direct External Call to Agent (Answered)

An external call is targeted directly to agent Extn101 of queue HG1. The agent answers the call.

The Call Summary report with the target Agent is as follows:

Call Summary Report-Agent

11/ 1/2012 - 11/ 1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	Agent *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
Extn101	1	1	1	0	0	0	0	0	0	0	-	5.0	-	-

Customer Calls	**1**	**Handled Calls**	**1**	**Transferred Calls**	**0**
		Answered Calls	**1**	**No Answer (Timeout)**	**0**
		Lost Calls	**0**	**Avg. Answer Time (%)**	**-**
		Overflowed Answered	**0**	**Avg. Answer Time**	**5.0**
		Overflowed Lost	**0**	**Avg. Abandon Time**	**-**
		Routed To Voicemail	**0**	**Grade of Service (%)**	**-**
		Routed To Other	**0**	**Answer Threshold**	**600**
				Lost Call Threshold	**1**
				Initiated Outbound Calls	**0**

The Call Summary report with the target Queue is as follows:

Call Summary Report-Q

11/ 1/2012 - 11/ 1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	Queue *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
Customer Calls	0													

Handled Calls	0
Answered Calls	0
Lost Calls	0
Overflowed Answered	0
Overflowed Lost	0
Routed To Voicemail	0
Routed To Other	0

Transferred Calls	0
No Answer (Timeout)	0
Avg. Answer Time (%)	-
Avg. Answer Time	-
Avg. Abandon Time	-
Grade of Service (%)	-
Answer Threshold	600
Lost Call Threshold	1
Initiated Outbound Calls	0

The Call Summary report with the target DDI is as follows:

Call Summary Report-DDI

11/ 1/2012 - 11/ 1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	DDI *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
101@192.168.177.16	1	1	1	0	0	0	0	0	0	0	100	5.0	-	100.00
Customer Calls	1													

Handled Calls	1
Answered Calls	1
Lost Calls	0
Overflowed Answered	0
Overflowed Lost	0
Routed To Voicemail	0
Routed To Other	0

Transferred Calls	0
No Answer (Timeout)	0
Avg. Answer Time (%)	100
Avg. Answer Time	5.0
Avg. Abandon Time	-
Grade of Service (%)	100.00
Answer Threshold	600
Lost Call Threshold	1
Initiated Outbound Calls	0

7.6.4 Overflowed and Multiple Transfers

An external call is targeted to queue HG1. As all agents of HG1 are busy, the call overflows to another queue HG2. The call is answered by the first available agent Extn201. Then Extn201 transfers the call to another queue HG3 where the call is answered by the first available agent Extn301. Similarly, Extn301 transfers the call to HG4 to be answered by Extn401.

The Call Summary report with the target Agent is as follows:

Call Summary Report-Agent

11/1/2012 - 11/1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	Agent *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
Extn201	1	1	1	0	0	0	0	0	1	0	-	6.0	-	-
Extn301	1	1	1	0	0	0	0	0	1	0	-	11.0	-	-
Extn401	1	1	1	0	0	0	0	0	0	0	-	11.0	-	-

Customer Calls	1	Handled Calls	3	Transferred Calls	2
		Answered Calls	3	No Answer (Timeout)	0
		Lost Calls	0	Avg. Answer Time (%)	-
		Overflowed Answered	0	Avg. Answer Time	9.3
		Overflowed Lost	0	Avg. Abandon Time	-
		Routed To Voicemail	0	Grade of Service (%)	-
		Routed To Other	0	Answer Threshold	600
				Lost Call Threshold	1
				Initiated Outbound Calls	0

The Call Summary report with the target Queue is as follows:

Call Summary Report-Q

11/1/2012 - 11/1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	Queue *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
HG1	1	1	0	0	1	0	0	0	1	0	100	16.0	-	100.00
HG3	1	1	1	0	0	0	0	0	1	0	100	11.0	-	100.00
HG4	1	1	1	0	0	0	0	0	0	0	100	11.0	-	100.00

Customer Calls	1	Handled Calls	3	Transferred Calls	2
		Answered Calls	2	No Answer (Timeout)	0
		Lost Calls	0	Avg. Answer Time (%)	100
		Overflowed Answered	1	Avg. Answer Time	12.7
		Overflowed Lost	0	Avg. Abandon Time	-
		Routed To Voicemail	0	Grade of Service (%)	100.00
		Routed To Other	0	Answer Threshold	600
				Lost Call Threshold	1
				Initiated Outbound Calls	0

The Call Summary report with the target DDI is as follows:

Call Summary Report-DDI

11/1/2012 - 11/1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	DDI *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
501@192.168.177.16	1	3	2	0	1	0	0	0	2	0	100	12.7	-	100.00

Customer Calls	1	Handled Calls	3	Transferred Calls	2
		Answered Calls	2	No Answer (Timeout)	0
		Lost Calls	0	Avg. Answer Time (%)	100
		Overflowed Answered	1	Avg. Answer Time	12.7
		Overflowed Lost	0	Avg. Abandon Time	-
		Routed To Voicemail	0	Grade of Service (%)	100.00
		Routed To Other	0	Answer Threshold	600
				Lost Call Threshold	1
				Initiated Outbound Calls	0

7.6.5 Enquiry Call Overflowed and Queue Call Supervised Transfer

An external call is targeted to queue HG1. The call is answered by the first available agent Extn101. Then Extn101 initiates enquiry call to agent Extn201 of queue HG2 for a supervised transfer. However, Extn 201 fails to answer the enquiry call and the enquiry call overflows to queue HG3. The enquiry call is answered by the first available agent Extn301 of queue HG3. Extn101 completes the supervised transfer to connect the external call to Extn301.

The Call Summary report with the target Queue is as follows:

Call Summary Report-Q

5/10/2013 - 5/10/2013 09:00 - 23:59

Report Type	Target Name	Supervisor Name
Call Summary Report	Queue *	CCR Supervisor

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
HG1	1	1	1	0	0	0	0	0	1	0	100	5.0	-	100.00
HG2	1	1	0	0	0	0	0	1	0	0	-	-	-	-

Customer Calls	1

Handled Calls	2
Answered Calls	1
Lost Calls	0
Overflowed Answered	0
Overflowed Lost	0
Routed To Voicemail	0
Routed To Other	1

Transf. Calls	1
No Answer (Timeout)	0
Avg. Answer Time (%)	100
Avg. Answer Time	5.0
Avg. Abandon Time	-
Grade of Service (%)	100.00
Answer Threshold	600
Lost Call Threshold	1
Initiated Outbound Calls	0

The queue call does not overflow and is not answered by voicemail. Also, the queue call is answered by Extn301, who is not a member of the original queue HG1. The call, therefore, is displayed under the **Routed to Other** column for HG2.

The real-time monitor view for this scenario is as follows:

Queues	Answered Calls	Overflowed Answered	Lost Calls	Overflowed Lost	Routed To Voicemail	Routed To Other	Transferred
HG1	1	0	0	0	0	0	1
HG2	0	0	0	0	0	1	0
HG3	0	0	0	0	0	0	0
HG4	0	0	0	0	0	0	0
TOTAL	*1*	*0*	*0*	*0*	*0*	*1*	*1*
SYSTEM	*1*	*0*	*0*	*0*	*0*	*1*	*1*

7.6.6 Queue Call Supervised Transfer to Agent

An external call is targeted to the queue HG1. The call is answered by the first available agent Extn101. Then Extn101 transfers the call directly to agent Extn201 of queue HG2 (the transferred call is not a queue call).

The Call Summary report with the target Agent is as follows:

Call Summary Report-Agent

11/ 1/2012 - 11/ 1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	Agent *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
Extn101	1	1	1	0	0	0	0	0	1	0	-	5.0	-	-
Extn201	1	1	1	0	0	0	0	0	0	0	-	14.0	-	-

Customer Calls	1	Handled Calls	2	Transferred Calls	1
		Answered Calls	2	No Answer (Timeout)	0
		Lost Calls	0	Avg. Answer Time (%)	-
		Overflowed Answered	0	Avg. Answer Time	9.5
		Overflowed Lost	0	Avg. Abandon Time	-
		Routed To Voicemail	0	Grade of Service (%)	-
		Routed To Other	0	Answer Threshold	600
				Lost Call Threshold	1
				Initiated Outbound Calls	0

The Call Summary report with the target Queue is as follows:

Call Summary Report-Q

11/ 1/2012 - 11/ 1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	Queue *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
HG1	1	1	1	0	0	0	0	0	1	0	100	6.0	-	100.00

Customer Calls	1	Handled Calls	1	Transferred Calls	1
		Answered Calls	1	No Answer (Timeout)	0
		Lost Calls	0	Avg. Answer Time (%)	100
		Overflowed Answered	0	Avg. Answer Time	6.0
		Overflowed Lost	0	Avg. Abandon Time	-
		Routed To Voicemail	0	Grade of Service (%)	100.00
		Routed To Other	0	Answer Threshold	600
				Lost Call Threshold	1
				Initiated Outbound Calls	0

The Call Summary report with the target DDI is as follows:

Call Summary Report-DDI

11/ 1/2012 - 11/ 1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	DDI *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
501@192.168.177.16	1	2	2	0	0	0	0	0	1	0	100	10.0	-	100.00

Customer Calls	1	Handled Calls	2	Transferred Calls	1
		Answered Calls	2	No Answer (Timeout)	0
		Lost Calls	0	Avg. Answer Time (%)	100
		Overflowed Answered	0	Avg. Answer Time	10.0
		Overflowed Lost	0	Avg. Abandon Time	-
		Routed To Voicemail	0	Grade of Service (%)	100.00
		Routed To Other	0	Answer Threshold	600
				Lost Call Threshold	1
				Initiated Outbound Calls	0

7.6.7 Overflowed and Supervised Transfer to Agent

An external call is targeted to queue HG1. As all agents of HG1 are busy, the call overflows to another queue HG2. The call is answered by the first available agent Extn201. Then Extn201 transfers the call directly to agent Extn301 of queue HG3 (the transferred call is not a queue call).

The Call Summary report with the target Agent is as follows:

Call Summary Report-Agent

11/1/2012 - 11/1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	Agent *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
Extn101	1	0	0	0	0	0	0	0	0	1	-	-	-	-
Extn201	1	1	1	0	0	0	0	0	1	0	-	6.0	-	-
Extn301	1	1	1	0	0	0	0	0	0	0	-	11.0	-	-

Customer Calls	1	Handled Calls	2	Transferred Calls	1
		Answered Calls	2	No Answer (Timeout)	1
		Lost Calls	0	Avg. Answer Time (%)	-
		Overflowed Answered	0	Avg. Answer Time	8.5
		Overflowed Lost	0	Avg. Abandon Time	-
		Routed To Voicemail	0	Grade of Service (%)	-
		Routed To Other	0	Answer Threshold	600
				Lost Call Threshold	1
				Initiated Outbound Calls	0

The Call Summary report with the target Queue is as follows:

Call Summary Report-Q

11/1/2012 - 11/1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	Queue *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
HG1	1	1	0	0	1	0	0	0	1	1	100	16.0	-	100.00

Customer Calls	1	Handled Calls	1	Transferred Calls	1
		Answered Calls	0	No Answer (Timeout)	1
		Lost Calls	0	Avg. Answer Time (%)	100
		Overflowed Answered	1	Avg. Answer Time	16.0
		Overflowed Lost	0	Avg. Abandon Time	-
		Routed To Voicemail	0	Grade of Service (%)	100.00
		Routed To Other	0	Answer Threshold	600
				Lost Call Threshold	1
				Initiated Outbound Calls	0

The Call Summary report with the target DDI is as follows:

Call Summary Report-DDI

11/1/2012 - 11/1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	DDI *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
501@192.168.177.16	1	2	1	0	1	0	0	0	1	1	100	13.5	-	100.00

Customer Calls	1	Handled Calls	2	Transferred Calls	1
		Answered Calls	1	No Answer (Timeout)	1
		Lost Calls	0	Avg. Answer Time (%)	100
		Overflowed Answered	1	Avg. Answer Time	13.5
		Overflowed Lost	0	Avg. Abandon Time	-
		Routed To Voicemail	0	Grade of Service (%)	100.00
		Routed To Other	0	Answer Threshold	600
				Lost Call Threshold	1
				Initiated Outbound Calls	0

7.6.8 Queue Call Unsupervised Transfer to Queue (Lost)

An external call is targeted to queue HG1. The call is answered by the first available agent Extn101. Then Extn101 completes an unsupervised transfer of the call to another queue HG2. The caller hangs up before the first available agent Extn201 answers the call.

The Call Summary report with the target Queue is as follows:

Call Summary Report-Q

11/1/2012 - 11/1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	Queue *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
HG1	1	1	1	0	0	0	0	0	0	0	100	5.0	-	100.00
HG2	1	1	0	1	0	0	0	0	0	0	-	-	00:00:08	-

Customer Calls	1	Handled Calls	2	Transferred Calls	0
		Answered Calls	1	No Answer (Timeout)	0
		Lost Calls	1	Avg. Answer Time (%)	100
		Overflowed Answered	0	Avg. Answer Time	5.0
		Overflowed Lost	0	Avg. Abandon Time	00:00:08
		Routed To Voicemail	0	Grade of Service (%)	50.00
		Routed To Other	0	Answer Threshold	600
				Lost Call Threshold	1
				Initiated Outbound Calls	0

Note that the transferred call count for HG1 is **0**, because the call is an unsupervised transfer that does not get answered.

The Call Details report with the target Queue displays the call flow as follows:

Call Details Report-Q

11/1/2012 - 11/1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Details Report - All	Queue *	Supervisor1

Time Stamp	Call Direction	Number	DDI	Queue	Queue Time	Agent	Duration	Status	Reference
Ungrouped									
12/18/2012 5:14:58 PM	**Inbound**	**Extn2101@192.168.177.17**	501@192.168.177.16	**HG1**	**00:00:05**	**Extn201**	**00:00:14**	**New Call**	**000243**
12/18/2012 5:14:58 PM	Inbound	Extn2101@192.168.177.17	501@192.168.177.16	HG1		Extn201	00:00:10	Connected	000243
12/18/2012 5:15:08 PM	Inbound	Extn2101@192.168.177.17	501@192.168.177.16	HG1		Extn201	00:00:04	Holding	000243
12/18/2012 5:15:16 PM	Inbound	Extn2101@192.168.177.17	501@192.168.177.16	HG1		Extn201		Transferred	000243
12/18/2012 5:15:16 PM	Inbound	Extn2101@192.168.177.17	501@192.168.177.16	HG2	00:00:08	Extn202		Abandoned	000243

Summary

Customer Calls	**1**	**Internal Calls**	**0**	**External Inbound Calls**	**1**
				Initiated Outbound Calls	**0**

Note that even though the call is not counted as a transferred call in real-time or Call Summary Report, Call Details Report displays the **Transferred** event for HG1 and the **Abandoned** event for HG2.

7.6.9 Queue Call Unsupervised Transfer to Queue (VM)

An external call is targeted to queue HG1. The call is answered by the first available agent Extn101. Then Extn101 completes an unsupervised transfer of the call to another queue HG2. The call gets routed to the voicemail of queue HG2 before the first available agent Extn201 answers the call.

The Call Summary report with the target Agent is as follows:

Call Summary Report-Agent

11/1/2012 - 11/1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Summary Report	Agent *	Supervisor1

Ungrouped	Customer Calls	Handled Calls	Answered Calls	Lost Calls	Overflowed Answered	Overflowed Lost	Routed To Voicemail	Routed To Other	Transf. Calls	No Answer (Timeout)	Avg. Answer Time (%)	Avg. Answer Time	Avg. Abandon Time	Grade Of Service (%)
Extn101	1	1	1	0	0	0	0	0	1	0	-	4.0	-	-

Customer Calls	**1**	**Handled Calls**	**1**	**Transferred Calls**	**1**
		Answered Calls	**1**	**No Answer (Timeout)**	**0**
		Lost Calls	**0**	**Avg. Answer Time (%)**	**-**
		Overflowed Answered	**0**	**Avg. Answer Time**	**4.0**
		Overflowed Lost	**0**	**Avg. Abandon Time**	**-**
		Routed To Voicemail	**0**	**Grade of Service (%)**	**-**
		Routed To Other	**0**	**Answer Threshold**	**600**
				Lost Call Threshold	**1**
				Initiated Outbound Calls	**0**

Note that the transferred call count for Extn201 is **1**, because the call is answered by the voicemail of HG2 after unsupervised transfer.

The Call Details report with the target Agent displays the call flow as follows:

Call Details Report-Agent

11/1/2012 - 11/1/2012 09:00 - 17:00

Report Type	Target Name	Supervisor Name
Call Details Report - All	Agent *	Supervisor1

Time Stamp	Call Direction	Number	DDI	Queue	Queue Time	Agent	Duration	Status	Reference
Ungrouped									
12/18/2012 5:26:23 PM	**Inbound**	**Extn2101@192.168.177.17**	501@192.168.177.16	**HG1**	**00:00:05**	**Extn101**	**00:00:15**	**New Call**	**000245**
12/18/2012 5:26:23 PM	Inbound	Extn2101@192.168.177.17	501@192.168.177.16	HG1		Extn101	00:00:10	Connected	000245
12/18/2012 5:26:33 PM	Inbound	Extn2101@192.168.177.17	501@192.168.177.16	HG1		Extn101	00:00:05	Holding	000245

Summary

Customer Calls	**1**	**Internal Calls**	**0**	**External Inbound Calls**	**1**
				Initiated Outbound Calls	**0**

Note that even though the call is counted as a transferred call in real-time or Call Summary Report, Call Details Report does not display the **Transferred** event for Extn101, because the corresponding **Routed to Voicemail** is not displayed for the Extn201.

Chapter 8.
Other Call Features

8. Other Call Features

This section explains some of the features of call handling provided by the telephone system and how those are interpreted by IP Office Customer Call Reporter.

8.1 Announcements

While a call to a queue is waiting to be answered, the IP Office telephone system can play pre-recorded announcements to the caller. This option is configured by the IP Office telephone system maintainer. The playing of announcements to waiting calls does not affect IP Office Customer Call Reporter statistics.

Announcements can be configured on calls waiting to be answered within a queue or for direct calls waiting to be answered by an individual user. For IP Office Customer Call Reporter, queue announcements are supported and do not affect statistics. However the use of user announcements is not supported.

Note that the use of customized announcement call flows through Voicemail Pro that do anything other than provide prompts before returning the caller to the queue are not supported by IP Office Customer Call Reporter. For example, a customized call flow that callers can use to opt to leave a message or to be transferred to another number, is not supported by IP Office Customer Call Reporter.

8.2 Bridged Appearances

Queue calls to an agent will be reflected by any bridged appearance buttons on another user's telephone set to that agent.

- Use of this feature is not supported for agents. Using this feature may lead to statistics that are incorrect or are difficult to interpret.

8.3 Busy on Held

When an agent has a call on hold, their status is indicated as Holding, however they can be presented with other calls.

The IP Office has a **Busy on Held** setting for each user which can be enabled. When enabled, when the user has a call on hold they are not presented with any further hunt group or queue calls. This will not affect their IP Office Customer Call Reporter state which still displays ***Holding***. Direct calls follow their forward on busy setting or otherwise go to voicemail or else get busy tone.

8.4 Conference Calls

Conference calls are not supported for IP Office Customer Call Reporter agents.

- Use of this feature is not supported for agents. Using this feature may lead to statistics that are incorrect or are difficult to interpret.

8.5 Call Pickup

There are a wide range of features that can be used to pickup a call ringing elsewhere on the telephone system. For example the call pickup can be based on the line on which the call was received, the group to which it is presented or the user or extension at which it is ringing. Consult with the system maintainer for details of which pickup features are available and how to access them.

- Queue calls answered by this method will be reported as **Routed to Other** for the queue at which they were ringing unless the pickup was by an agent in the same queue.
- For an agent answering the call:
  - If they are an agent in the same queue, the call is recorded in the **Answered Calls** statistic (and **Answered Internal (Queue)** if internal) for the queue and answering agent.
  - If they are not in the same queue, the call is recorded as **Answered External (Non-Queue)** or **Answered Internal (Non-Queue)** for the answering agent.
- Non-queue calls answered this way are recorded as **Answered External (Non-Queue)** or **Answered Internal (Non-Queue)** for the answering agent.

8.6 Call Coverage

Call coverage is not applied to queue calls. Therefore, it does not affect statistics.

8.7 DECT R4 Set

IP Office Customer Call Reporter processes calls presented to the agents who use DECT (R4) telephones in the same way as it does for normal desk phones.

- Use of this feature is not supported for the calls answered on the twinned DECT set. Using this feature on twinned telephones may lead to statistics that are incorrect or difficult to interpret.

8.8 Do Not Disturb

An agent using any Do Not Disturb or Send All Calls feature is treated as selecting the Busy Not Available state. In that state the agent is not presented queue calls and the state and time in state is reported by the IP Office Customer Call Reporter.

This agent state indicates that the agent is not available to receive calls while they perform a non-call related activity such as attending a meeting. This state can be selected by an agent using the DND or SAC button on their telephone, see Agent Telephone Controls 138. This also requires the agent to select one of the reason codes 344 displayed on their telephone to indicate the reason they are going into the **Busy Not Available** state.

If this state is enabled while a queue call is being presented, the call will go to the next available agent and cause the **No Answer** statistic for the agent and queue to be incremented.

For agent on the following telephones, when they select the **Busy Not Available** state using a button on their telephone they will be prompted to select a reason code if any have been configured on the telephone system.

- 1400, 1600, 2400, 5400, 4600, 5600, 9500 and 9600 Series telephones with available programmable buttons.

The codes are configured on the telephone system by the system maintainer. The reason code is displayed as part of Agent State (Queue) statistic information.

Up to 8 custom reasons can be configured plus the following two fixed reasons:

- **Automatic**
  This reason is used if the agent is using a telephone that supports reason code selection but fails to select a reason. For example if they enabled Busy Not Available through a short code, using one-X Portal for IP Office or were forced into it by the IP Office's **Agent Status on No Answer** feature.
- **Unsupported**
  This reason code is used for agents using telephones that do not support the selection of a reason code.

- **Programmable Button** 343
  Most Avaya feature telephones supported by IP Office have programmable buttons 343. The IP Office system maintainer can program each of these buttons with features for use by the telephone's user.
  - You can select the Busy Not Available state by pressing a **DND** (Do Not Disturb) or **SAC** (Send All Calls) button on your telephone. You will then be requested to select a reason code from a list displayed on the telephone. The available reason codes are configured by the IP Office system maintainer.

- **Dialing Short Code** 345
  The IP Office telephone system maintainer can set up dialing short codes 345 that support special features to be accessed by dialing the short code number.
  - Dial a **Do Not Disturb On** short code. The default short code is ***08**. This method does not require the entry of a reason code and so is reported just **Busy Not Available**.
  - Dial a **Do Not Disturb Off** short code. The default short code is ***09**.

- **one-X Portal for IP Office Busy Not Available**
  Using the **Agent Control** gadget, under **Agent State** select ***Busy Not Available***. Under **Reason Codes** select the reason you want reported for the period you remain in the busy not available state. To exit busy not available status use the control to select ***Available***.

8.9 Follow Me

Agents can use follow me to redirect their calls to another internal users telephone. The calls remain associated with the agent and will be recorded in the statistics as if it was ringing against the extension at which the agent has logged on.

8.10 Forwarding Calls

Hunt groups and queues do not have call forwarding settings. However, agents can use their own call forwarding settings to forward calls including queue calls.

- An agent's **Forward on Busy** and **Forward on No Answer** settings are applied to their direct calls but are not applied to queue calls that they receive.
- An agent's **Forward Unconditional** settings can be optionally applied to queue calls by selecting the **Forward Hunt Group Calls** option. When selected, it is applied to all queue calls including internal calls regardless of the agent's **Forward Internal Calls** setting.
- Queue calls cannot be forwarded to another hunt group or queue.
- If a queue call is forwarded and then unanswered after the queue's **No Answer Time**, the IP Office will retrieve the call and present it to the next available agent.
    - Some trunks, for example analog trunks, cannot provide the call progress signaling used by the IP Office to retrieve a call if unanswered. Calls forwarded via such trunks are treated as answered immediately when they are forwarded.

For IP Office Customer Call Reporter this means:

- Direct calls to an agent forwarded by the agents call forwarding settings are not recorded by any statistics.
- Queue calls to an agent forwarded by the agents call forwarding settings only affect IP Office Customer Call Reporter if the call is answered while forwarded.
    - If the call is forwarded to another agent within the queue, any **Answered**, **Lost** and **No Answer** statistics as appropriate are incremented for the queue and for the agent to which the call was forwarded and not the agent from which it was forwarded.
    - If the call is forwarded to a non-agent destination, if answered there it will recorded as **Answered Other** for the queue. However, if lost or not answered, the **Lost** or **No Answer** statistic for the queue or its agents are not incremented.
- Use of this feature is not supported for agents. Using this feature may lead to statistics that are incorrect or are difficult to interpret.

8.11 Holding Calls

Calls held by an agent affect the agent's status (which becomes Holding) but do not affect any other statistics.

Retrieving the call from hold does not affect any statistics either. This also applies to hold calls that recall to the agent who put the call on hold. They are not counted as additional answered calls.

The length of time that agent's had calls on hold is reported in reports based on the **Agent Summary Report** 52 template.

8.12 Internal Twinning

Direct and queue calls for agents with internal twinning enabled are presented to both the agent's main and twinned extensions.

- Use of this feature is not supported for agents. Using this feature may lead to statistics that are incorrect or are difficult to interpret.

8.13 Line Appearance Buttons

Line appearance buttons indicate when an incoming call on that line is ringing. The button can be used to answer the call.

- Use of this feature is not supported for agents. Using this feature may lead to statistics that are incorrect or are difficult to interpret.

8.14 Mobile Twinning

Mobile Twinning is used to gets calls on both the normal extension and the external telephone numbers simultaneously. This feature is available for direct calls to the agents and not for the hunt group calls. However, to use this feature for calls to the hunt group, you must enable the **Hunt Group Calls Eligible for Mobile twinning** option in IP Office Manager.

- Use of this feature is not supported for agents. Using this feature may lead to statistics that are incorrect or are difficult to interpret.

8.15 Parking Calls

IP Office Customer Call Reporter treats calls parked by one agent and then unparked by another agent as supervised transfers 280 but omitting the enquiry answered stage.

8.16 Telecommuter

The telecommuter mode allows an agent to make and receive calls using a phone at a remote location with all calls being started by and going through the telephone system.

Use of this feature is not supported for agents. Using this feature may lead to statistics that are incorrect or are difficult to interpret.

8.17 Trunk to Trunk Calls

IP Office Customer Call Reporter is not supported for recording statistics relating to trunk to trunk calls including trunk to trunk transfers by agents.

8.18 Wrap Up

For all telephone users, the IP Office telephone system applies a short delay, by default 2 seconds, during which the user is indicated as still being busy to further calls. The main function of wrap up is to give analog telephone users, who have just finished a call, the opportunity to start dialing a short code or to start making a call before another incoming call is presented to them.

For users set as agents, the period of wrap up applied to their telephone is reported as their being in the **After Call Work** 336 state. If the agent is also set for automatic after call work, the wrap up period is applied first and then the automatic after call work period is begun.

Chapter 9. Miscellaneous

9. Miscellaneous

9.1 Multiple Roles

A user can be configure to undertake more than one IP Office Customer Call Reporter role, selecting their current role (agent, supervisor or administrator) when they log in to the IP Office Customer Call Reporter web client. Full details are included in the *Avaya IP Office Implementing IP Office Customer Call Reporter* (15-601133) manual.

- **Administrator and Supervisor**
  The administrator's user name is setup during IP Office Customer Call Reporter installation. If a supervisor is added to the configuration then the user is able to login either as the administrator or as a supervisor.
- **Agent and Supervisor**
  Agent usernames for IP Office Customer Call Reporter login use the user's name within the IP Office configuration. If a supervisor account with the same name is created that user is able to login as either an agent or a supervisor.
- **Agent, Supervisor, and Administrator**
  You can create an IP Office user and a supervisor account with names that match the administrator name to allow that user to login as either an agent, a supervisor, or the administrator.

9.2 Configuration Changes

Changes to the IP Office switch configuration have an immediate effect on call routing and therefore on call statistics. However, as detailed below, it does not have an immediate effect on the agent and queue names visible in views and reports.

The IP Office Customer Call Reporter updates its information about the queues and agents configured on the IP Office telephone system every 5 minutes. Therefore adding, removing or renaming agents and queues do not affect views immediately. Instead it requires users to wait up to 5 minutes and to then refresh their view by either switching to another view and then back or by logging out and then logging in again.

Agents

- **Adding an Agent to a Queue**
  Wait up to 5 minutes and then refresh the view.
- **Removing an Agent from a Queue**
  Wait up to 5 minutes and then refresh the view. The agent's contribution to the queue's performance is still included in the queue statistics but they are not included in the view of agent statistics. The agent's statistics are still accessible within historical reporting.
- **Deleting an Agent**
  Wait up to 5 minutes and then refresh the view. The agents contribution to the queue's performance is still included in the queue statistics but they are not included in the view of agent statistics. The agent's statistics are still accessible within historical reporting.
- **Renaming an Agent**
  Wait up to 5 minutes and then refresh the view. The agent's contribution to the queue's performance is still included in the queue statistics but the agent's personal statistics are reset and are displayed with the agent's new name.
  - **Warning**
    When targeting a report on agents, for reports based on the ***Call Details Report*** template, the agent's statistics are split appropriately between the old and new names. For reports based on other templates (***Agent Summary Report***, ***Call Summary Report*** and ***Trace Report***), only the agent's statistics under the current name are reported.

Queue

- **Adding a Queue**
  Before the new queue can be added to any view, it must first be selected in the list of queues available to a supervisor. This is done within the supervisors account details by either the administrator 191 or by supervisors with self-administrator rights 129 for their own account. Again this cannot be done until up to 5 minutes after the new queue was added to the IP Office configuration.
- **Renaming a Queue**
  Wait up to 5 minutes and then refresh the view. The queue name is automatically removed from the view. To add the queue using the new name is the same as for adding a queue detailed above. The queue's statistics within historical reporting are split appropriately between the old and new names.
- **Deleting a Queue**
  Wait up to 5 minutes and then refresh the view. The queue name is automatically removed from the view. The queue's statistics are still accessible within historical reporting.

9.3 Troubleshooting

9.3.1 Graph/Help Not Displayed

Using these options requires the browser to allow pop-up windows. If they are not displayed when selected, verify that the browser is not configured to block pop-up windows.

- Most browsers can be configured to allow all pop-ups, to allow pop-ups from a particular web server, or to prompt whenever a pop-up windows attempts to open.
- Additional software other than the browser, for example, a firewall software or a ad-blocker software, can also stop pop-up windows and need to be configured to allow pop-up windows for the IP Office Customer Call Reporter server address.

9.3.2 Customer Call Map/Wallboard Blank White

Both the Customer Call Map and Wallboard view use Silverlight. The automatic update option is enabled by default when Silverlight is installed. If the option is disabled manually after the installation of Silverlight, changes to the Silverlight components used by IP Office Customer Call Reporter may no longer match those available on the user's computer. Update Silverlight and log back into IP Office Customer Call Reporter.

9.3.3 Call Map Does Not Display

The following are possible reasons for the Customer Call Map display to be blank:

1. The Customer Call Map requires an Internet connection to obtain background map information.
2. The Customer Call Map uses Silverlight. See the notes below.
3. The Customer Call Map function **Find Location** does not find the required location if the Internet connection is through a web proxy that requires authentication.

9.3.4 Realtime Statistics Might Be Out of Date Message

This message indicates that the connection is lost. For example, if the system administrator restarts some part of IP Office Customer Call Reporter, you will receive this error message. Refreshing the browser view should correct the web client.

9.3.5 View is Blank

There are a number of reasons for a view to be blank:

- No content has been setup for the view by the administrator or supervisor.
- For an agent the view will be blank if it does contain any queues of which they are also a member.

9.3.6 The Monitor View/Wallboard Goes Gray

When a web client is displaying queue and agent statistics and alarms, it is regularly polling the IP Office Customer Call Reporter server for updated data. The statistics are updated approximately every 2 seconds. If the background of any section goes gray, it indicates that there has been an excessive delay in receiving updated data.

- If this is not a regular event then no action is required, the monitor view or wallboard will update automatically.
- If this occurs frequently, inform your administrator or maintainer, as it may indicate a failure in a IP Office Customer Call Reporter component.

9.3.7 Enabling Silverlight in Chrome

Silverlight is a NPAPI browser plugin. For Google Chrome V42 and higher support for NPAPI is disabled by default. This causes the prompt to install Microsoft Silverlight to repeat even after it has been installed.

To enable Silverlight for Windows Google Chrome:

1. Start Chrome and enter ***chrome://flags/#enable-npapi*** in the address bar.
2. Select the **Enable NPAPI** setting.
3. After that, click **Relaunch Now** at the bottom of your Chrome window. Note: Closing and reopening Chrome is not sufficient, you must click the **Relaunch Now** button.
4. Once Chrome relaunches, verify Silverlight is installed by browsing to http://www.microsoft.com/getsilverlight/Get-Started/Install/Default.aspx.
5. Silverlight will confirm whether it is installed and operating or needs to be installed.

Chapter 10.
Glossary

10. Glossary

This section provides definitions of key IP Office Customer Call Reporter terms.

10.1 Administrator

The administrator can amend IP Office Customer Call Reporter system preferences plus create and administer supervisor and wallboard accounts. That includes assigning which queues a supervisor can see or granting the supervisor self-administration rights to amend their own settings including queues.

The administrator does not have any views of call statistics. However they can setup and amend the views used by supervisors and their agents.

There is only one administrator account and only one person can log in as the administrator at any time.

10.2 After Call Work (ACW) [Agent State]

After Call Work indicates that the agent is not available to receive queue calls 343 while they perform some other call related activity. Typically this is used for activities such as call records and data entry that need to be completed before handling another call. A number of controls are available for After Call Work 141. Agents can be configured to be automatically put into ACW state after a queue call or else they can manually select to enter the state when required.

Note: The Wrap-Up 347 feature briefly applied to the end of all calls including queue calls is also reported as **After Call Work** state.

10.3 Agent

An agent is a user who handles calls to queues on the IP Office telephone system. Unlike general IP Office users they have been specifically configured as agents in the IP Office configuration. IP Office Customer Call Reporter supports up to 150 agents.

- To make and receive calls, the agent must login to a telephone on the IP Office telephone system. Note that T3 Series and T3 IP Series telephones are not currently supported.
- The agent's telephone status is recorded by IP Office Customer Call Reporter. For example when they logged in to a telephone, answer a call, log off, etc.
- The agents are also configured as members of queues and are then presented with call targeted to those queues. An agent can be a member of several queues.
- Using the web client, agents can see the same screen views as their supervisor. However, unlike the supervisor, the agents can only see their own statistics and for those queues to which they belong.

10.4 Agent Productivity [Statistic]

- This statistic is available for the system, queues, and agents.
- For a queue it shows the number of queue calls answered within a set of service criteria as a percentage of all queue calls presented.
- For an agent it shows the percentage of calls an agent has handled within a set of service criteria over all calls.
- It excludes calls disconnected before the Lost Calls threshold setting, measured from when the call was presented to the queue.
- It excludes direct calls presented to the agents and outbound external calls.
- It includes lost calls.

10.5 Agent State (Queue) [Statistic]

- This statistic is only available for agents.
- It shows the current state of each agent in the selected queue.
- The related statistic Agent State (Queue) Time 214 can be used to show how long each agent has been in their current state.

10.6 Agent State (Queue) Time [Statistic]

- This statistic is only available for agents.
- It shows how long the agent has been in their current state for the selected queue.
- The agent's current state can be shown by the related statistic Agent State (Queue) 212.

10.7 Agent State (System) [Statistic]

- This statistic is only available for agents.
- It shows the agent activity across all queues to which the agent belongs, ie. the whole system.
- The related statistic Agent State (System) Time 217 can be used to show how long each agent has been in their current state.

10.8 Agent State (System) Time [Statistic]

- This statistic is only available for agents.
- It shows how long the agent has been in their current system state.
- The agent's current state can be shown by the related statistic Agent State (System) 215.

10.9 Agents ACW [Statistic]

- This statistic is available for the system and queues.
- Its shows the number of agents who are currently in the After Call Work (ACW) state.
- For users who previously used CCC, the ACW state is similar to Busy Wrap Up.

10.10 Agents Available [Statistic]

- This statistic is available for the system and queues.
- It shows the number of agents in the queue who are currently available to answer calls.

10.11 Agents Busy [Queue State]

This queue state is reported for a queue when all the logged in agents are in a busy state.

This queue state is reported by the Queue State 255 statistic. The time the queue has been in a particular state is reported by the Queue State Time 256 statistic.

10.12 Agents Call Share [Statistic]

- This statistic is only available for agents.
- It shows the percentage of queue calls 343 answered by the agent out of all queue calls answered by the agents in the queue.

10.13 Agents Logged On [Statistic]

- This statistic is available for the system and queues.
- It shows the number of agents who are members of the queue and are currently logged in.
- When logged in an agent can also be in other states.

10.14 Agents Present [Statistic]

- This statistic is available for the system and queues.
- It shows the number of agents who are logged in but whose membership of the queue is currently disabled.

10.15 Agents Ringing [Statistic]

- This statistic is available for the system and queues.
- It shows the number of agents with queue calls 343 ringing but not yet answered.

10.16 Answered Calls [Statistic]

- This statistic is available for the system, queues, and agents.
- It shows the number of queue calls 343 that has been answered by the agents in the queue or the agent being reported on.
- It does not include direct calls answered by agents.
- If a call that has overflowed is answered by an agent, it is reported as **Overflowed Answered** for the queue and as **Answered** for the agent.
- It does not include queue calls answered by non-queue members using methods such as call pickup.
- It does not include calls that go to voicemail.

10.17 Answered External Non-Queue [Statistic]

- This statistic is only available for agents.
- It shows the sum of the number of external inbound calls that are:
  - targeted directly to an agent and answered by the agent.
  - targeted to another queue and picked up by the agent using call pickup.
  - targeted directly to another agent and picked up by the agent using call pickup.
- It does not include queue calls to a queue of which the agent is a member.

10.18 Answered Internal Non-Queue [Statistic]

- This statistic is only available for agents.
- It shows the number of internal inbound calls that are targeted directly to an agent and answered by the agent.
- It includes the number of internal calls targeted to another queue and answered by the agent using call pickup.
- It includes the number of internal calls targeted directly to another agent and answered by the agent using call pickup.
- It does not includes queue calls to a queue of which the agent is a member.

10.19 Answered Internal Queue [Statistic]

- This statistic is available for the system, queues, and agents.
- It shows the number of internal calls to the queue that were then answered by the agents in the queue or the agent being reported on.

10.20 Announcements

While a call to a queue is waiting to be answered, the IP Office telephone system can play pre-recorded announcements to the caller. This option is configured by the IP Office telephone system maintainer. The playing of announcements to waiting calls does not affect IP Office Customer Call Reporter statistics.

10.21 Available [Agent State]

This agent state is reported when an agent is logged in and is not in any other state. That is, when the agent is available to receive and answer queue calls.

10.22 Average Answer % [Statistic]

- This statistic is available for the system, queues, and agents.
- It shows the number of queue calls 343 answered by the queue within the specified answer threshold time, divided by the total number of calls answered.

10.23 Average Answer Time [Statistic]

- This statistic is available for the system, queues, and agents.
- It shows the sum of answer times divided by the number of queue calls answered by the queue or by the agent being reported.
- The answer time is measured from the time when the call arrives at the target (queue or agent). It does not include t he delay between the time when a call is presented to a Hunt Group and the time when the call arrives at the target.
- When calculated for an agent, the statistic is only based on the calls that the agent handled on behalf of the hunt group selected in the view.

10.24 Average Wait Time [Statistic]

- This statistic is available for the system and queues.
- Average waiting time of calls.

10.25 Busy [State]

This agent state is reported when the agent answers and is connected to a call to a queue of which they are a member.

10.26 Busy Alt-Q [Agent State]

This agent state is reported when, while viewing the agent's status in one queue of which they are a member, the agent is connected to a call belonging to another queue of which they are a member. It is also used when the agent is connected to a call that has overflowed from a queue.

10.27 Busy Not Available [Agent State]

This agent state indicates that the agent is not available to receive calls while they perform a non-call related activity such as attending a meeting. This state can be selected by an agent using the DND or SAC button on their telephone, see Agent Telephone Controls 138. This also requires the agent to select one of the reason codes 344 displayed on their telephone to indicate the reason they are going into the **Busy Not Available** state.

If this state is enabled while a queue call is being presented, the call will go to the next available agent and cause the **No Answer** statistic for the agent and queue to be incremented.

10.28 Busy Not Available [Statistic]

- This statistic is available for the system and queues.
- It shows the total number of agents in the queue who have currently indicated they are Busy Not Available 338.
- Busy Not Available is a state selected by an agent when they need to stop receiving queue calls to do some non-call related activity.

10.29 Busy Non-Q [Agent State]

This agent state is reported when the agent answers a call that was not targeted to the queue to which they belong. It is also reported when an agent makes a call.

10.30 Busy Wrap Up

Busy Wrap Up is an agent state used by the IP Office CCC 339 application. It is not supported by IP Office Customer Call Reporter. The equivalent state for IP Office Customer Call Reporter is to report the agent as ***Present*** when their memberships of all the groups to which they belong are all disabled.

This is different from Wrap Up 347.

10.31 Call Pickup

The IP Office supports a number of features that can be used to allow agents to pickup calls ringing in a queue.

10.32 Call Waiting [Statistic]

- This statistic is available for the system and queues.
- It shows the number of calls targeted to the queue that are waiting to be answered by the agents in the queue or the agent being reported on.
- It includes calls currently ringing at agent telephones.
- Calls that overflow from the queue and are still waiting to be answered are reported using Overflowed Calls Waiting 250.

10.33 CCC

Compact Call Center (CCC) is an alternate call center reporting application supported with IP Office telephone systems.

CCC and IP Office Customer Call Reporter are not supported on the same IP Office system except for the use of CCC Reporter to access historical CCC reports. However some CCC licenses can be used with IP Office Customer Call Reporter.

10.34 CLI

Called or Calling Line ID. Also known as CLID or ICLID (Incoming Calling Line ID). On incoming calls this is the telephone number of the caller if provided with the call. On outgoing calls it is the number called.

10.35 Connected

The state where the agent is talking to a caller. This state does not include time when the call is alerting the agent or the agent has the call on hold or parked.

10.36 Collective Call Waiting Group

Hunt groups configured as 'collective call waiting' present a waiting call to all available agents simultaneously but with hunt group call waiting also enabled. When an additional call to the hunt group is waiting to be answered, users in the group who are already on a call receive a call waiting indication. This type of hunt group is not supported for use as an IP Office Customer Call Reporter queue.

10.37 Collective Group

Hunt groups configured as 'collective' present a waiting call to all available agents simultaneously. This type of hunt group is not supported for use as an IP Office Customer Call Reporter queue.

10.38 Current Wait Time [Statistic]

- This statistic is available for the system and queues.
- Time of the longest currently waiting call.

10.39 DECT R4 Support

Use of this feature is not supported for the calls answered on the twinned DECT set. Using this feature on twinned telephones may lead to statistics that are incorrect or difficult to interpret.

10.40 Direct Call

The terms 'non-queue call' or 'direct call' are used for calls targeted directly at a particular agent rather than at the queue to which they belong.

While handling a direct call and agent will not be presented with queue calls and will be indicated as Busy Non-Q.

10.41 Enquiry Call

While transferring a call, the original call is put on hold pending transfer and a call is made to the transfer target. The call to the transfer target is called an 'enquiry call'. It is also known as a 'consultation call'.

10.42 Grade of Service [Statistic]

- This statistic is available for the system and queues.
- It shows the number of queue calls answered within the defined answer threshold as a percentage of all queue calls presented.
- It excludes calls where the caller disconnects before the statistic's **Lost Calls Threshold** setting, measured from when the call was presented to the queue.
- It includes calls that become lost calls.
- It does not include calls that were routed elsewhere (**Routed to Other**) or to voicemail (**Routed to Voicemail**).

10.43 Holding [Agent State]

This agent state is reported when an agent has a call on hold.

10.44 Hot Desking

Since agents login at an extension to start receiving calls, they can use any extension available rather than needing a permanent telephone extension. Users who login at different extensions are referred to as 'hot deskers'.

10.45 In Service [Queue State]

This queue state is reported for a queue in normal operation, ie. with some agents logged in and available to answer calls.

Agents in the queue will no longer be presented with calls targeted to that queue. Depending on how the queue has been configured by the telephone system maintainer, the calls will either overflow to another queue or to voicemail.

This queue state is reported by the Queue State 255 statistic. The time the queue has been in a particular state is reported by the Queue State Time 256 statistic.

10.46 Internal Made [Statistic]

- This statistic is only available for agents.
- It shows the number of internal calls made by an agent. Only internal calls that are answered are included.

10.47 IP Office

IP Office is an Avaya telephone system for small businesses. It supports traditional analog telephones, Avaya digital feature telephones and Avaya IP features telephones.

10.48 Last Agent

In a queue with no overflow and voicemail, if there is only one available agent, when a call is present to them it will continuing ringing without regard to the No Answer Time of the queue and any related No Answer Time actions that the IP Office would apply. This applies even if the agent enables **Busy Not Available** while the call is being presented.

10.49 Licenses

Use of IP Office Customer Call Reporter is controlled by licenses entered by the maintainer into the IP Office telephone system. Insufficient licenses cause IP Office Customer Call Reporter to not work. Licenses control:

- The number of IP Office Customer Call Reporter agents (up to a maximum of 150).
- The number of IP Office Customer Call Reporter supervisors and wallboards that can be logged in at any time (up to a maximum of 30 of each).

10.50 Logged In

An agent is "logged in" when they use an extension on the telephone system to enter their extension number and login code. Their telephone settings are then applied to that extension and they are then able to make and receive calls including calls targeted to queue of which they are members.

Agents can log in to an extension either by pressing the Login button if displayed or dialing a login short code. The default short code is *35*<agent extension number>*<agent login code>#.

10.51 Logged Out [Agent State]

This agent state is reported when an agent has logged out 140 from the telephone system. Note that this is the default state reported by IP Office Customer Call Reporter if it cannot determine the exact state, for example when restarting.

10.52 Longest Waiting Group

Hunt groups configured as 'longest waiting' do not use the order in which agents has been configured as members of the queue. Instead a new call targeted to the queue is presented to the available agent who has been in the available state the longest.

10.53 Longest Wait Time [Statistic]

- This statistic is available for the system and queues.
- Waiting time of the longest waiting call.

10.54 Lost

- A lost call is one where the caller disconnects before being answered.

10.55 Lost Calls [Statistic]

- This statistic is available for the system, queues, and agents.
- It shows the number of queue calls where the caller disconnected before they were answered by an agent in the queue or the agent being reported on.
- Queue calls that are lost are reported as lost against both the queue and against the last agent to which the call was presented.
- Direct calls to an agent that are lost are reported as lost for the agent but not for the queue.
- If a call that has overflowed is lost, it is reported as **Overflowed Lost** for the queue.
- It does not include calls that go to voicemail.

10.56 Membership

- The hunt group queues of which an agent is a member are configured by the IP Office telephone system maintainer. They cannot be changed by the agent or supervisor. However an agent's membership of a hunt group queue can be disabled.
  - When an agent's membership of a queue is disabled, the agent's state for that queue will be reported as ***Present*** when it would otherwise have been ***Available***.
  - On many Avaya display telephones, a **G** on the display indicates that the user currently has their membership of at least one group enabled.

10.57 Maintainer

In this documentation the term 'maintainer' or 'system maintainer' refers to the person who configures settings on the IP Office telephone system. That may not be the same person as the IP Office Customer Call Reporter Administrator 336.

10.58 New Messages [Statistic]

- This statistic is available for the system and queues.
- It shows the current number of unread messages in the mailbox of the selected queue.
- This is not an IP Office Customer Call Reporter statistic that can be reset, it is a value reported by the voicemail server providing the mailbox.

10.59 Night Service [Queue State]

A queue can be set in 'night service' state either manually or as the result of an automatic time schedule.

Agents in the queue will no longer be presented with calls targeted to that queue. Depending on how the queue has been configured by the telephone system maintainer, the calls will either overflow to another queue or to voicemail.

This queue state is reported by the Queue State 255 statistic. The time the queue has been in a particular state is reported by the Queue State Time 256 statistic.

10.60 No Agents [Queue State]

This queue state is reported for a queue where no agents are logged in.

This queue state is reported by the Queue State 255 statistic. The time the queue has been in a particular state is reported by the Queue State Time 256 statistic.

10.61 No Answer

When a queue call is presented to an agent it rings for a time set in the telephone system configuration (called the **No Answer Time**) before being presented to the next available agent. Calls that have rung for the full time without being answered are recorded as no answer calls. Calls that ring for only part of the time and are then answered elsewhere are not recorded.

The telephone system can be configured to change the agent's state if they do not answer a call. That can include logging the agent off or setting them into Busy Not Available 338 state with the reason code 344 ***Busy Not Available***.

10.62 No Answer [Statistic]

- This statistic is available for the system, queues and agents.
- For an agent it shows the number of queue calls presented to the agent which rang unanswered for the queue's full no answer time before be presented elsewhere.
- For a queue it shows the total number of no answer events for the agents in the queue.
- For an agent it includes queue calls and queue calls that overflowed to the agent's queue. It does not include non-queue calls.
- If an agent enables Busy Not Available while being presented with a queue call, that will be counted against the agent and queue.

10.63 No Answer Time

Hunt group queues and agents both have **No Answer Time** settings that are configured by the IP Office system maintainer.

For calls to a hunt group queue, the queue's **No Answer Time** is used. It sets how long a call will be presented to an agent before being presented to the next available agent. Each time a call is not answered within the **No Answer Time** and then presented elsewhere it is recorded as a **No Answer** 342 call for the queue and for the agent.

No answer time is not used for collective groups and when the agent is the last available agent in a group that does not have any overflow or voicemail set.

For direct calls to an agent rather than a queue of which the agent is a member, the agent's **No Answer Time** setting is used. It sets when calls should go to voicemail or use the agent's forward on no answer number if set. The agent's **No Answer Time** setting is not used for queue calls.

10.64 Non-Queue Call

The terms 'non-queue call' or 'direct call' are used for calls targeted directly at a particular agent rather than at the queue to which they belong.

10.65 Off Hook

This is a telephony term for when the handset on a traditional telephone is lifted from the telephone. For IP Office Customer Call Reporter, off hook time is used for any state where the agent's telephone is in use but not connected to a call. For example when in the process of making a call.

10.66 Out of Service [Queue State]

A queue can be set as 'out of service'.

Agents in the queue will no longer be presented with calls targeted to that queue. Depending on how the queue has been configured by the telephone system maintainer, the calls will either overflow to another queue or to voicemail.

This queue state is reported by the Queue State 255 statistic. The time the queue has been in a particular state is reported by the Queue State Time 256 statistic.

10.67 Outbound Calls External [Statistic]

- This statistic is only available for agents.
- It shows the number of outbound external calls made by the agent.
- As the system uses this statistic to calculate Average Outbound Talk Time (Av Out), the system counts only those outbound external calls that get connected.

10.68 Overflowed

- An overflowed call is any call originally targeted at the queue that then overflows using the queue's overflow settings. The overflowing calls are then presented to members of other queues.
- IP Office Customer Call Reporter only supports overflow using other IP Office Customer Call Reporter queues as the overflow destinations.

10.69 Overflowed Answered [Statistic]

- This statistic is available for the system and queues.
- It shows the number of queue calls answered after overflowing to another queue.
- This applies even if the overflowed call is answered by an agent in the queue from which the call overflowed.
- It does not include queue calls answered by methods such as call pickup (use **Routed to Other** 257).
- It does not include calls that go to voicemail.

10.70 Overflowed Calls [Statistic]

- This statistic is available for the system and queues.
- It shows the number of calls that have overflowed from the queue to its overflow destination.
- Once a call has overflowed, it can also be included in the queue's Overflowed Calls Waiting 343, Overflowed Answered 342, and Overflowed Lost 343 statistics.

10.71 Overflowed Calls Waiting [Statistic]

- This statistic is available for the system and queues.
- It shows the number of calls overflowed from the queue and still waiting to be answered.

10.72 Overflowed Lost [Statistic]

- This statistic is available for the system and queues.
- It shows the number of calls which overflowed from the queue and were then lost.
- It does not include calls that go to voicemail.

10.73 Present [Agent State]

This agent state is reported when an agent is logged in but their membership of the particular queue has been disabled. In this state they will not be presented with calls targeted to that queue. The agent's state for other queues will still be Available 338.

10.74 Presented Calls [Statistic]

- This statistic is available for the system, queues, and agents.
- For queues, it is the sum of Answered calls 337, Routed to Voicemail 345, Overflow answered calls 342, Routed to others 344, Lost calls 341 and Overflowed lost calls 343.
- For agents, it is the sum of Answered calls 337, Agent's voicemail answered calls 345, Routed to others 344, Answered non-queue external 337, Answered non-queue internal 338, No answer 342, and Lost calls 341
- For agents, it includes Direct Calls.
- Calls to agents that are disconnected by the caller are not counted as Lost Calls; hence, these calls are not counted in Presented Calls.
- For queues, it does NOT include Direct Calls and Enquiry Calls.

10.75 Programmable Button

Most Avaya telephones have a number of programmable buttons which can be used for special functions which can include functions specific to IP Office Customer Call Reporter. Buttons can be provided by the telephone system maintainer for logging in, logging out, enabling/disabling group membership and controlling Busy Not Available and After Call Work.

10.76 Queue

A queue is a hunt group configured for IP Office Customer Call Reporter operation. Calls to a queue are presented the first available agent 338 in the queue using a pattern set in the queue's configuration. If the call is not answered it is presented to the next available agent and so on until answered. The order in which the agents are used is set in it's configuration to one of the following orders: Collective 339, Collective Call Waiting 339, Sequential 345, Rotary 344, and Longest Waiting 340.

10.77 Queue Call

This term is used for calls targeted to a queue, either by the telephone system or by the caller dialing the queue's extension number. Unless otherwise specifically stated, most statistics shown by IP Office Customer Call Reporter are only for queue calls. Calls direct to an agent (non-queue calls 339) rather than to the queue to which they belong are not included.

10.78 Queue State [Statistic]

- This statistic is only available for queues.
- It shows the current state of the queue as one of the following: In Service, Agents Busy, No Agents, Night Service or Out of Service.
- The related statistic Queue State Time 256 can be used the show the time that the queue has been in its current state.

10.79 Queue State Time [Statistic]

- This statistic is only available for queues.
- It shows the time the queue has been in its current state.
- The related statistic Queue State 255 can be used the show current state.

10.80 Queuing

Hunt groups on the telephone system can be configured to use queuing when the number of calls waiting to be answered exceeds the number of available agents to which waiting calls can be presented. With queuing enabled the additional callers continue to be treated as if ringing even though they are queued.

Without queuing, when the hunt group become busy, addition calls go directly to the overflow destination if set, else to voicemail if available, else return busy to the caller.

IP Office Customer Call Reporter is only supported for queues (hunt groups) that use queuing.

10.81 Reason Codes

For agent on the following telephones, when they select the **Busy Not Available** state using a button on their telephone they will be prompted to select a reason code if any have been configured on the telephone system.

- 1400, 1600, 2400, 5400, 4600, 5600, 9500 and 9600 Series telephones with available programmable buttons.

The codes are configured on the telephone system by the system maintainer. The reason code is displayed as part of Agent State (Queue) statistic information.

Up to 8 custom reasons can be configured plus the following two fixed reasons:

- **Automatic**
  This reason is used if the agent is using a telephone that supports reason code selection but fails to select a reason. For example if they enabled Busy Not Available through a short code, using one-X Portal for IP Office or were forced into it by the IP Office's **Agent Status on No Answer** feature.
- **Unsupported**
  This reason code is used for agents using telephones that do not support the selection of a reason code.

10.82 Reference

Each call is assigned a unique call reference number that remains with the call whilst it is on the IP Office telephone system. The **Reference** number for a call is included in reports based on the **Trace Report** 62 and **Call Details Report** 56 templates. A call's **Reference** number can also be used as the target reports based on the **Trace Report** template.

10.83 Ring Mode

A hunt group's ring mode defines the order in which agents in the group are used. The options are Collective 339, Collective Call Waiting 339, Sequential 345, Rotary 344 and Longest Waiting 340.

10.84 Ringing [Agent State]

This agent state is reported when the agent is being presented with a call targeted to a queue of which they are a member. If they answer the call their state will change to Busy 338.

10.85 Ring Alt-Q [Agent State]

This agent state is reported when the agent is being presented with a call from another queue of which they are a member. If they answer the call their state will change to Busy Alt-Q 338. It is also used when the agent is being presented a call that has overflowed from a queue.

10.86 Ring Non-Q [Agent State]

This agent state is reported when the agent is being presented with a call that is not targeted to any queue of which they are a member. If answered the call their state will change to Busy Non-Q 338.

10.87 Rotary Group

Hunt groups configured as 'rotary' present calls waiting to be answered to the first available agent after the agent who last answered a call to that queue. This is done using the order in which the agents have been configured in the queue by the telephone system maintainer. Unanswered calls are presented to the next available agent using the same queue membership order. Each new call targeted to the queue is to the agent after the one who last answered a queue call.

10.88 Routed to Other [Statistic]

- This statistic is available for the system, queues, and agents.
- Sum of calls targeted at the queue or agent that are subsequently answered by a party, other than a member of the original queue, the overflow or voicemail. Only direct calls to agents will affect the **Routed to Other** for agents. Queued calls to agents will affect the Queue statistic.

10.89 Routed to Voicemail [Statistic]

- This statistic is available for the system, queues, and agents.
- For a queue it shows the number of queue calls presented and then routed to voicemail.
- For an agent it shows the number of direct calls to the agent that were then routed to voicemail.
- It does not include announcements played by voicemail to the caller.

10.90 Short Code

Various IP Office functions can be programmed against sequence of numbers that can be dialed from user telephones. This includes functions used by IP Office Customer Call Reporter agents.

10.91 Sequential Group

Hunt groups configured as 'sequential' present calls waiting to be answered to the first available agent in the queue, then if unanswered to the next available agent and so on. This is done using the order in which the agents have been configured in the queue by the telephone system maintainer. Each new call targeted to the queue is again presented to the first available agent in queue membership order.

10.92 Small Community Network (SCN)

This refers to a method of linking several IP Office telephone systems using IP trunks. Currently calls received on SCN trunks are reported as external calls by IP Office Customer Call Reporter.

IP Office Customer Call Reporter 1.2 does not support SCN operation, ie. agents and hunt groups on more than one IP Office system. In addition advanced small community networking features such as remote hot desking and/or distributed hunt groups are not supported.

10.93 Statistics

IP Office Customer Call Reporter collects information about calls to queues and agents and stores this in its database. It also collects information about the current state of the queues and agents. Statistics based on this information are then used in web views and historical reports.

- Except where specifically indicated, usually by the term 'Non-Queue', all statistics relate to calls targeted to queues.
- Each statistic can only be added once within each view.
- Statistics are calculated values. They are affected by configurable settings on the particular view, wallboard or report such as whether to include or exclude internal calls. Those settings can be varied for each instance where a particular statistic is used.
    - The exception is statistics that use answer and lost calls thresholds values in their calculation. The same threshold values are used for all such statistics in the same view or wallboard display.
- The statistics value in views and wallboards can be manually reset when required by any supervisor for who the administrator 336 has enabled the Reset Statistics 111 option. Resetting the statistics affects the view and wallboard statistics for all supervisors and agents. It does not affect the statistics used for historical reports.
- The statistics in views are updated approximately every 2 seconds.

10.94 Supervised Transfer

A supervised transfer is one where, having put your current call on hold pending transfer, you make an enquiry call 339 and wait for that call to be answered. When answered you can announce the transfer and then complete the transfer process. This is also called an assisted transfer.

10.95 Supervisor

Supervisors can create 105 and amend views 103 of the agent queues assigned to them. Those views are then viewable by the supervisor and the agents. Supervisors can also create reports 38 that they then either run manually 42 or that they schedule 45 to run automatically at regular intervals.

IP Office Customer Call Reporter supports up to 30 supervisors. However the maximum number of supervisors that can be logged in at any time is controlled by the number of available Supervisor licenses (each license enables a simultaneous Supervisor login and Wallboard login).

10.96 Wallboard

The IP Office Customer Call Reporter administrator can create wallboard accounts. When logged in with one of these accounts, the browser can be used to display queue statistics for any queues plus other information such as messages sent or scheduled by IP Office Customer Call Reporter supervisors.

IP Office Customer Call Reporter supports up to 30 wallboards. However the maximum number of wallboards that can be logged in at any time is controlled by the number of available Supervisor licenses (each license enables a simultaneous Supervisor login and Wallboard login).

10.97 System Status Application

The IP Office System Status Application (SSA) is a software tool used to view the status of the IP Office telephone system. It uses the same connection method to the IP Office as the IP Office Customer Call Reporter application and so cannot be run from the IP Office Customer Call Reporter server.

10.98 Talk Average [Statistic]

- This statistic is available for the system, queues, and agents.
- It is calculated as the total talk time divided by the total number of inbound queue calls and outbound external calls.
- It does not include queue calls answered by non-queue members using methods such as call pickup.
- It does not include held, parked, and ACW call time.

10.99 Talk Inbound [Statistic]

- This statistic is available for the system, queues and agents.
- It includes incoming external trunk calls. It does not include internal calls and outgoing external calls.
- It shows the time the agent has spent on handling incoming queue calls.
- It does not include queue calls answered by non-queue members using methods such as call pickup.
- It does not include held, parked, and ACW call time.

10.100 Talk Inbound Average [Statistic]

- This statistic is available for the system, queues, and agents.
- It includes incoming external trunk calls. It does not include internal calls and outgoing external calls.
- For an agent, it shows the average time that the agent has spent on incoming external queue calls. Calculated as: Total duration of Talk Inbound divided by the number of queue calls answered by the agent.
- For a queue, it shows the average time that all the agents belonging to the queue have spent on incoming external calls for the queue. Calculated as: Total duration of Talk Inbound divided by the number of queue calls answered by all the agents belonging to the queue.
- It does not include queue calls answered by non-queue members using methods such as call pickup.
- It does not include held, parked, and ACW call time.

10.101 Talk Internal [Statistic]

- This statistic is available for the system, queues, and agents.
- It shows the time an agent has spent on internal calls (inbound and outbound).
- It does not include queue calls answered by non-queue members using methods such as call pickup.
- It does not include held, parked, and ACW call time.

10.102 Talk Outbound [Statistic]

- This statistic is available for the system, queues, and agents.
- For a queue it is the talk outbound time of all agents in the queue even if the agent queue membership is currently disabled.
- Shows the time the agent has spent on outgoing external calls. The system calculates the time from when an agent gets connected to an external call.
- Shows the sum of outbound talk time for all agents even when the system calculates statistics for a queue. This is because outbound calls are not related to a queue.
- It does not include held, parked, and ACW call time.

10.103 Talk Outbound Average [Statistic]

- This statistic is available for the system, queues, and agents.
- It shows the average time an agent has spent on outbound external calls. Calculated as: the sum of outbound talk time divided by the number of outbound calls that have seized a trunk successfully.
- It does not include held, parked, and ACW call time.

10.104 Talk Total [Statistic]

- This statistic is available for the system, queues, and agents.
- It shows the time spent by agents on external outgoing calls and external incoming calls for a queue.
- For external outgoing calls, the system starts calculating the time only when the call gets connected.
- It does not include internal calls (incoming or outgoing).
- It does not include queue calls answered by non-queue members using methods such as call pickup.
- It does not include held, parked, and ACW call time.

10.105 Transferred [Statistic]

- This statistic is available for the system, queues, and agents.
- For a queue it is the number of calls originally targeted at the queue and then successfully transferred by the queue's agents. It does not include direct calls 339 to agents that they then transfer.
- For an agent it is the number of calls that they have transferred. It includes direct calls 339 to agents that they then transfer.
- It includes the supervised transfers and those unsupervised transfers which are answered.

10.106 Unsupervised Transfer

In an unsupervised transfer, having put your current call on hold pending transfer, after dialing the transfer destination you complete the transfer process without waiting to hear if the call is answered.

10.107 View

The term view is used for the first 3 tabs displayed to supervisors and agents. Each view consists of a table of queues and queue statistics. Clicking on any of the queue names will display an additional table of agent statistics for the agents in that queue. An alarm list or ticker can also be added to each view to show alarms and warnings for that view or all the supervisor's views. The views can be amended by the supervisor and administrator.

Agents are able to see the same views as their supervisor but cannot change the queues or statistics. The agent's version of the view will only show queues to which the agent belongs and their own agent details.

10.108 Weighted Average

A weighted average is used when combining statistics from different sources, for example when displaying the overall **Average Answer %** for several queues. The method used will take account of a weighting factor such as the number of calls answered by each individual queues.

The example below shows the **Average Answer %** for 3 queues.

Statistic	Queue 1	Queue 2	Queue 3
Calls Answered	30	2	40
" within answer threshold	20	1	40
Average Answer %	**66%**	**50%**	**100%**

There are several ways in which the overall average for the queues could be expressed:

- **Simple Average: 72%**
  The method is the average of the individual averages.
  - Simple average = (66+50+100)/3 = 72%. .
- **Combined Average: 85%**
  This method treats the calls as if answered by a single combined queue.
  - Combined average = (20+1+40)/(30+2+40) = 85%.
- **Weighted Average: 88%**
  The weighted average is similar to the combined average but adjusts the contribution of each queue by the number of calls answered by that queue.
  - Weighted average = ((66x20) + (50x1) + (100x40))/(20+1+40) = 88%.

10.109 Wrap Up

For all telephone users, the IP Office telephone system applies a short delay, by default 2 seconds, during which the user is indicated as still being busy to further calls. The main function of wrap up is to give analog telephone users, who have just finished a call, the opportunity to start dialing a short code or to start making a call before another incoming call is presented to them.

For users set as agents, the period of wrap up applied to their telephone is reported as their being in the **After Call Work** 336 state. If the agent is also set for automatic after call work, the wrap up period is applied first and then the automatic after call work period is begun.

Chapter 11.
Document History

11. Document History

Date	Issue	Changes
6th May 2015	**09e**	• Additional notes for Silverlight installation with Chrome browser 334.
7th October 2015	**09f**	• Document source refresh for batch print service.

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