© 2019 Avaya Inc. All rights reserved.

Release Notes for Avaya IX Room Systems XT Series



Version 9.2.0.215
For Avaya XT7000 Series
For Avaya XT5000/XT4x00/XTE240 Series
Avaya Equinox® Solution 9.1.8
June 2019

© 2019 Avaya Inc. All rights reserved.

© 2000-2019 Avaya Inc. All intellectual property rights in this publication are owned by Avaya Inc. and are protected by United States copyright laws, other applicable copyright laws and international treaty provisions. Avaya Inc. retains all rights not expressly granted.

All product and company names herein may be trademarks of their registered owners.

This publication is AVAYA Confidential & Proprietary. Its use is pursuant to your signed agreement or Avaya policy. No part of this publication may be reproduced in any form whatsoever or used to make any derivative work without prior written approval by Avaya Inc.

No representation of warranties for fitness for any purpose other than what is specifically mentioned in this guide is made either by Avaya Inc. or its agents.

Avaya Inc. reserves the right to revise this publication and make changes without obligation to notify any person of such revisions or changes. Avaya Inc. may make improvements or changes in the product(s) and/or the program(s) described in this documentation at any time.

If there is any software on removable media described in this publication, it is furnished under a license agreement included with the product as a separate document. If you are unable to locate a copy, please contact Avaya Inc. and a copy will be provided to you.

Unless otherwise indicated, Avaya registered trademarks are registered in the United States and other territories. All registered trademarks recognized.

For further information contact Avaya or your local distributor or reseller.

Release Notes for Avaya XT Series *Version 9.2.0.215*
June 2019

http://support.avaya.com

CompleteProductName	Avaya XT Series
AvayaXTSeries_noScopia	Avaya XT Series
ShortProductName	XT Series
ReleaseNoteName	Release Notes for Avaya XT Series
CompanyPrefix	Avaya
AvayaEquinoxSolution	Avaya Equinox® Solution
AvayaIXRoomSystem	Avaya IX Room System

© 2019 Avaya Inc. All rights reserved

Table of Contents

Avaya XT Series Highlights 4

Supported Languages 4
Web Interface Management 4
Advanced Settings Menu 5

What's New 6

UX Look and Feel 6
Live Streaming (RTMP) 6
Integration with Microsoft Exchange Calendar ..... **Error! Bookmark not defined.**
Telepresence Direct Call 9
Touch Screen Support 35
Screen Link Enhancements 37
802.1p - QoS for 802.1q 39
Enhancements 40
Control API Extension (AT Commands) 40

Software Upgrade & Downgrade 42

Signed Software Packages 42
How to Upgrade XT Series to 9.x Releases 43
Downgrading from this Release 44

Integrating with Other Components 45

Resolved Issues 46

Known Issues 47

Common Remote Control Shortcuts 55

Avaya Policy for GDPR 59

Additional References 60

Copyright, Licensing and Credits 61

© 2019 Avaya Inc. All rights reserved

Avaya XT Series Highlights

Avaya offers a complete range of advanced HD video conferencing room systems, stand alone or part of Avaya Equinox® Solution.

Our full range of dedicated Avaya IX Room System video conferencing endpoints lets you experience exceptional video conferencing in any environment. Avaya IX Room System endpoints leverage leading, powerful video communications technology to deliver an unparalleled video collaboration experience, from immersive Telepresence, to conference room systems and all-in-one Executive endpoints.

Our Avaya IX Room System endpoints incorporate the latest video communications technology, including dual 1080p/60fps video channels, H.265 and H.264 High Profile for bandwidth efficiency, H.265 and H.264 Scalable Video Coding for error resiliency, and Apple iPad/iPhone device control.

The Avaya XT Series includes a full range of room, personal and group systems.

This section details useful information on the following items:

- Supported languages
- Managing the system through the web interface
- Enabling the Advanced Settings system menu in the graphical interface

Supported Languages

Avaya XT Series supports the following **24** languages on the endpoint and its web interface: English, French, Spanish, Deutsch, Italian, Portuguese, Norwegian, Swedish, Chinese (Mandarin), Japanese, Russian, Korean, Czech, Magyar, Polish, Finnish, Thai, Traditional Chinese, Turkish, Arabic, Farsi, Serbian, Bahasa Indonesia, Slovak.

Each web client can select the interface language independently from the language used on the graphical user interface of the endpoint (GUI).

Web Interface Management

Avaya XT Series endpoints can be managed from the XT Graphical User interface ([GUI]) or using a standard web browser ([WEB]), via HTTPS (default) or HTTP.

To login into the Codec Unit with a web browser, browse to *https://<XT IP Address >*

The default credentials are:

User: **Admin**
Password: **1234**

All the paths specified in this release note with a notation with the [WEB] prefix, like

[WEB] ADMINISTRATOR SETTINGS>…,

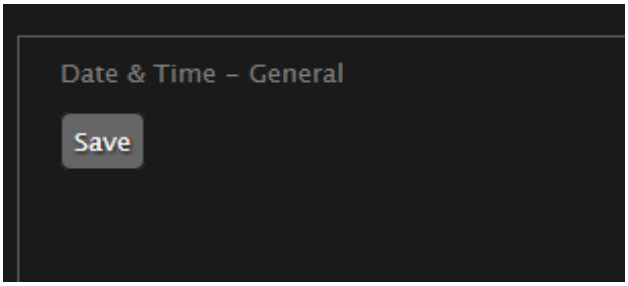
refer to an XT Web interface menu.

Important

- You need to press the 'Save' button to apply changes done to a configuration via the Web Interface, otherwise your changes will not be applied.

© 2019 Avaya Inc. All rights reserved

Figure 1: **Save Settings in the Web Interface**



Advanced Settings Menu

To enable **Advanced Settings** in the endpoint's Main menu (Graphical User Interface, GUI), set [GUI] > CONFIGURE > GENERAL > SHOW ADVANCED SETTINGS: YES

Important

- Changes to settings done via the Graphical Interface are automatically saved and applied when exiting the menu page.
- The XT Graphical Menu items available in the path [GUI] > CONFIGURE > ADVANCED can be found also inside the XT Web Interface Menu, tab 'Administrator Settings'. This tab is always enabled in the Web Interface.

© 2019 Avaya Inc. All rights reserved

What's New

This release 9.2.0.215 introduces several new features and enhancements, described in the following sections, respect to previous Avaya XT Series GA version, v9.1.8.63

UX Look and Feel

This release aligns the graphical user interface of the XT Series to the Graphical Interface of Avaya IX Collaboration Unit endpoints, providing a more modern look and feel.

Live Streaming (RTMP)

In this release it is possible to live-stream from your Codec Unit to a streaming server, using the RTMP open standard. This protocol reduces the latency and is the most suitable to stream a live session.

In a live-streaming (also called webcast) session, the endpoint will transmit the local audio/video/presentation to a streaming server. When the endpoint is in a call, also the remote audio/video/presentation will be streamed.

Before activating a live streaming session, you must open an account on a streaming platform (or setup your own streaming service). The platform will allow you to retrieve the RTMP Server URL and your personal streaming key. You can look below for a list of well-known live-streaming platforms and services.

Configure the Streaming Session

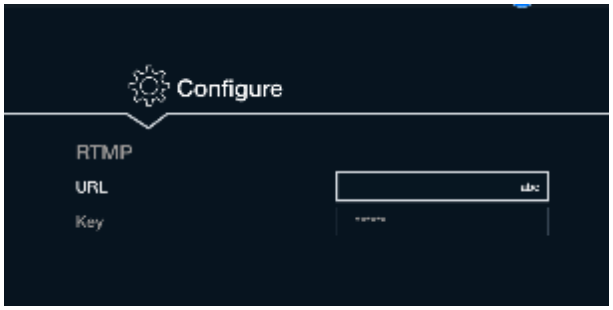
Once you got the RTMP URL and key from the streaming platform/service, you must configure them on the Codec Unit. The combination of the URL and the key represents the unique destination where the live stream produced by the Codec Unit will be delivered. Enter the RTMP URL and the stream key in

[GUI] CONFIGURE > STREAMING
[WEB] ADMINISTRATOR SETTINGS > UTILITIES> STREAMING

- URL: RTMP Streaming server URL
- Key: Session/Stream Key

© 2019 Avaya Inc. All rights reserved

Figure 2: **RTMP Session URL And Key**



Important

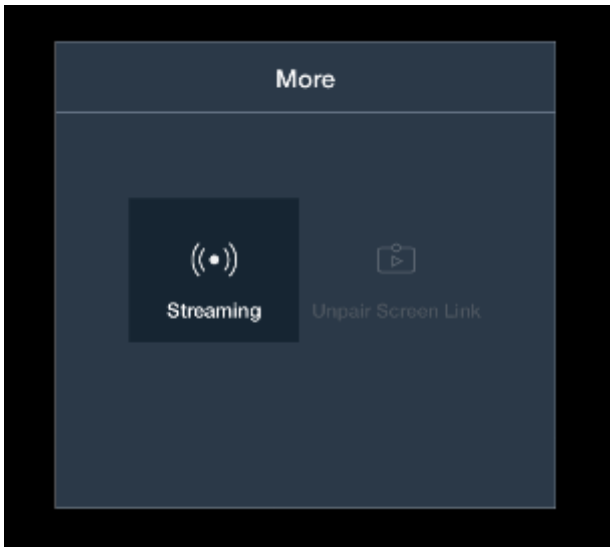
- Your stream key is strictly personal, and it is obfuscated. In any case assure that you delete your key from the endpoint configuration once you do not want to live stream anymore.

Start/Stop the Streaming Session

To start the streaming session, go to

[GUI] HOME PAGE > MORE >STREAMING
[GUI] CALL PANEL> MEETING OPTIONS> STREAMING
[WEB] MORE ACTIONS> STREAMING

Figure 3: **Start/Stop Streaming**



Important

- The More option in the Home page is not visible if the streaming is not configured properly (empty URL or Key)
- During the streaming, what everyone will see in the live session is what you get on the main monitor, excluding the local menu (GUI).
- During the streaming, an additional monitor connected to the endpoint will show a mirror of the first monitor.
- You can start and stop a streaming session and a local USB recording session independently.
- Streaming and recording on USB key have the same limitations
  - No more than 7 participants are supported when streaming
- An icon is displayed in the info bar when the streaming is in progress.
- An audio message is played by default to alert your remote parties that there is a streaming in progress.

© 2019 Avaya Inc. All rights reserved

Disable the RTMP Streaming

RTMP Streaming is enabled by default. It can be disabled by the Codec Unit administrator in

[GUI] CONFIGURE > ADVANCED > UTILITIES > STREAMING
[WEB] ADMINISTRATOR SETTINGS > UTILITIES > STREAMING

Common Streaming Platforms

You can follow the instructions below to retrieve both the RTMP URL and the stream key for a list of streaming platforms.

Important

- Instructions and platforms listed below are for convenience only and are subject to change without notice.

Facebook

https://www.facebook.com/facebookmedia/get-started/live
Go to https://facebook.com/
Create an account.
Create a page and go to [your page] -> publishing tools
Go to Videos -> Video library -> Live
Get the RTMP URL, for instance RTMP://RTMP-api.facebook.com:80/RTMP/
Get the stream key, for example: 1929833137256623?ds=1&s_e=4&s_l=1&a=ATgTg1tkjE0p2yLY
Enter the provided URL with the stream key in the Codec for the end user to stream.

Periscope/Twitter

Go to https://www.periscope.tv/
Create an account.
Go to https://www.periscope.tv/account/producer
Enter the provided URL with the stream key in the Codec for the end user to stream.

YouTube

https://support.google.com/youtube/answer/2474026?hl=en -> Click the Stream Now hyperlink on this page
Go to https://youtube.com/
Create an account
Go to Create studio -> Live streaming -> Stream now
From Encoder setup get the RTMP URL, for instance RTMP://a.RTMP.youtube.com/live2
Get the stream key, for example: 3u40-9rqs-502b-7zeq
Enter the provided URL with the stream key in the Codec for the end user to stream.

Adobe Media Server

http://www.adobe.com/products/adobe-media-server-family.html
Host the Adobe Media Server on Windows, Linux, or on Amazon web services.
Get the URL of the Adobe Media Server and the port number from the ams_admin console.
For example: RTMP://192.168.1.105:5423/live
The stream key can be anything that you want.
Enter the provided URL with the stream key in the Codec for the end user to stream.

Live Stream

https://help.livestream.com/hc/en-us/articles/217694678-Setting-Up-Studio-as-an-RTMP-Server
Go to https://livestream.com/
Create an account.
Create an event and/or select an event.
Select Live tools -> RTMP input.
Select getlink.
Get the RTMP URL and the stream key.
Enter the provided URL with the stream key in the Codec for the end user to stream.

Meridix

Go to https://www.meridix.com
Create an account.
Go to the broadcaster portal at https://manager.meridix.com
From the main menu, select Live -> Stream Keys
Enter the provided URL with the stream key in the Codec for the end user to stream.

NGINX

https://nginx.org/en/
Host the NGNIX server on Windows or Linux.
URL of the NGINX server with the port number given in the ngnix.conf file.
For example: RTMP://192.168.1.105:5563/live

© 2019 Avaya Inc. All rights reserved

The stream key can be whatever you like.
Start the NGNIX server.
Enter the provided URL with the stream key in the Codec for the end user to stream.

Red5 Media Server

http://red5.org/
Host the Red5 Media Server on Windows or Linux.
Start the Red5 Media Server by running red5.sh
Launch the Red5 service on the web browser of the server.
For example: localhost:5080/demos/publisher.html
Initiate a connection to the server.
Enter the stream name.
Get the URL of the Red5 Media Server with the port number given in red5.properties file and the stream key entered on the publisher.
Enter the provided URL with the stream key in the Codec for the end user to stream.

Restream.io

https://support.ustream.tv/hc/en-us/articles/212811349-How-to-use-Restream-io-to-Broadcast-to-Multiple-Publishing-Points
Go to https://restream.io/
Create an account.
Select the dashboard and select the region to get the RTMP URL and stream keys.
Enter the provided URL with the stream key in the Codec for the end user to stream.

Twitch

Create an account at https://www.twitch.tv/
Click the Username and select the Dashboard option.
Under Dashboard select Settings -> Stream Key -> Show Key -> Copy the Stream Key (The stream key is unique for every individual account)
For the RTMP Server URL, go to https://bashtech.net/twitch/ingest.php and select the URL as per your location.
Enter the provided URL with the stream key in the Codec for the end user to stream.

Ustream

https://support.ustream.tv/hc/en-us/articles/207851987-How-to-stream-to-Ustream-using-Wirecast-FMLE-TriCaster-or-any-RTMP-encoder
Go to https://www.ustream.tv/
Create an account.
Go to https://www.ustream.tv/dashboard/manage-show/broadcast-settings/23338925/encoder-settings
Enter the provided URL with the stream key in the Codec for the end user to stream.

Wowza Streaming Server

https://www.wowza.com/docs/how-to-set-up-live-streaming-using-an-RTMP-based-encoder
You'll need a PC to host Wowza Streaming Server.
Launch the server, then log in to it.
Go to http://localhost:8088/enginemanager/Home.htm#application/_defaultVHost_/live/live/main/
Select the test player and get the RTMP URL and the stream key
Enter the provided URL with the stream key in the Codec for the end user to stream.

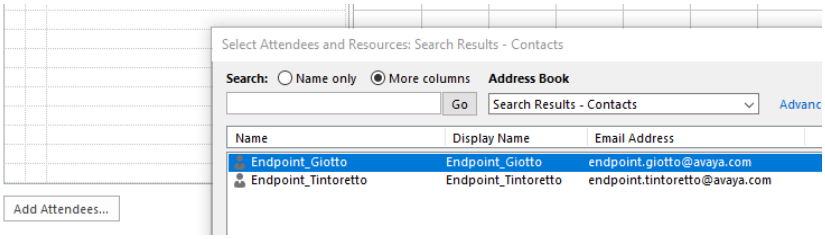
Integration with Microsoft Exchange Calendar

In this release, the video endpoint can access a Microsoft Exchange Calendar through EWS (Microsoft Exchange Web Services) to retrieve your personal calendar, or a video endpoint calendar, or a “Room resource” calendar for which a delegate account has been created.

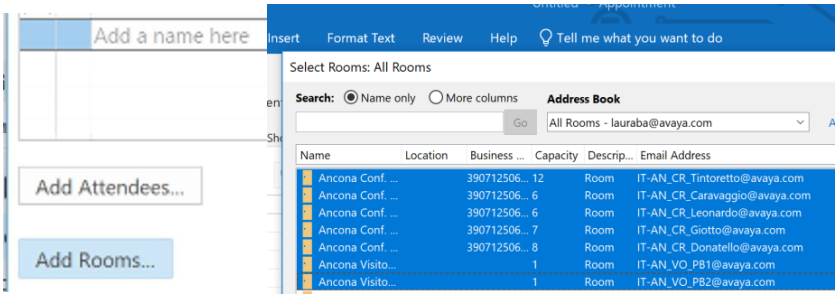
There are three different ways to configure the access to the Exchange Calendar in the video endpoint.

- **Personal Account Mode**: Use your own credentials to see your personal calendar (the meeting in which you are invited) on your video endpoint. If you mark a calendar item as private, its title will be replaced by “Private Meeting”.
- **Video Endpoint Account Mode**: Create a standard account for your video endpoint and invite the endpoint in the meeting (as a “Attendee”); insert the video endpoint account credentials to see the meetings in which the endpoint is invited as attendee. (This mode requires IT Admin access to the Exchange Server to create a standard email account for your video endpoint).

© 2019 Avaya Inc. All rights reserved



- **Room Resource and Delegate Account Mode**: Create a “Room” resource associated to your video endpoint and add the endpoint to the meeting as a “Room” resource. Create a delegate account able to see the specific Room calendar and configure the delegate account and the room email in the endpoint configuration. (This mode requires IT Admin access to the Exchange Server to create Room Resources and one or more delegate accounts).



Important

- A “Standard Account” has an email address and a password. A “Room Resource” account has only an email address and no password. To access a Room Calendar, a delegate standard account is needed.
- To retrieve an Exchange calendar, the endpoint must be able to access the EWS Address (Exchange Server Address) over the internet or on a private network. Your IT Administrator should have enabled this service on the Exchange Server setup.
- Your company network, including firewalls and proxies, must allow an https connection from the video endpoint to the Exchange Server Address (on premises or on cloud).

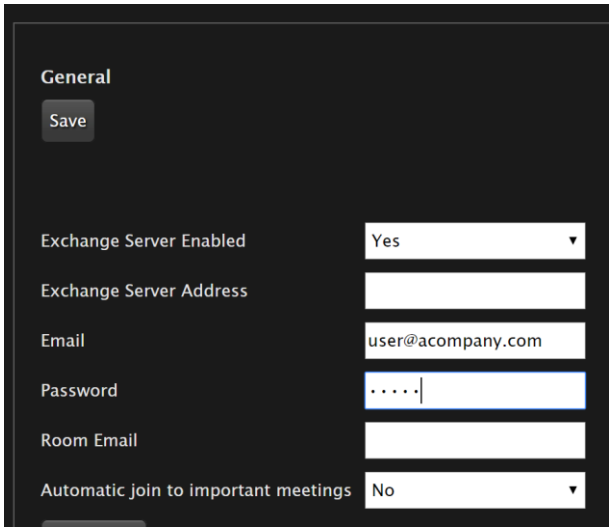
Exchange Calendar Configuration

You need to enable and configure the connection from the endpoint to its account Exchange Calendar in

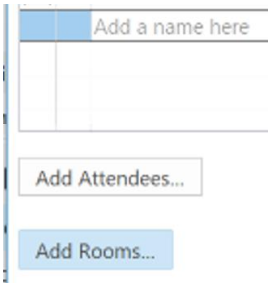
[GUI] CONFIGURE > ADVANCED > CALENDAR
[WEB] ADMINISTRATOR SETTINGS > CALENDAR >GENERAL

© 2019 Avaya Inc. All rights reserved

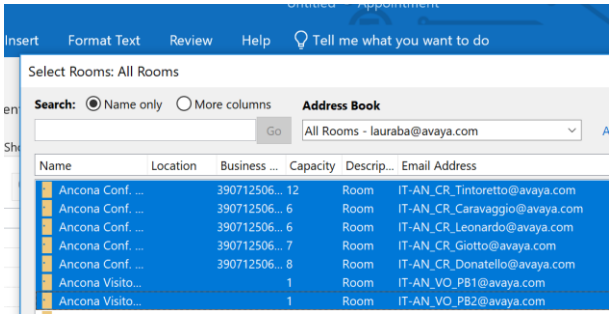
Figure 4: **Calendar Configuration for Office365, Personal/Video Endpoint Account Mode**



- Exchange Server Enabled: Yes/No*. Enables the connection to the EWS to retrieve a Calendar; the server will be polled by the XT/CU every minute to get the updated calendar for the current day. Only current meetings and future meetings will be displayed. Expired meetings will be removed from the Calendar page after 15 minutes from their end time.
- Exchange Server Address: **Can be empty** if the Exchange Server is based on Microsoft Office365. Otherwise it must be filled as explained in the following section (How to Retrieve your Exchange Server EWS Address), usually with https://<servername>/EWS/Exchange.asmx
- Email: name@domain. It can be a standard (**personal/video endpoint)** email account or a **delegate** account for a room. All the meetings in which the account or the room is invited will be displayed in the Calendar page. If a mapping is present to dial into the meeting, the endpoint will show a join button in the calendar item about five minutes before the call. A popup message will also show up, with the choices to join the meeting, snooze the reminder for one minute or dismiss the remainder. When already in a call, joining the new meeting will automatically disconnect the previous call.
- Password: password for the above email account.
- Room email: if the endpoint corresponds to a “Physical” Room that can be reserved in an Exchange Calendar item as a “Room” resource, you have an email account for it. In this case your IT admin needs to setup a **delegate** email account who can see all the calendar items in which this room’s email is added as a room resource (“Add Rooms…” button). (See How to Setup a Delegate Account for a Room). Otherwise it is **empty**.

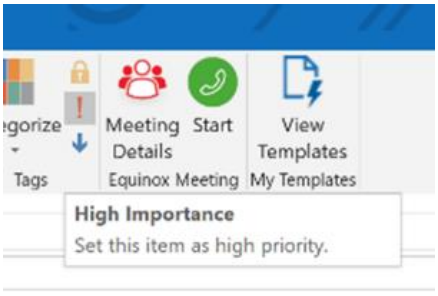


© 2019 Avaya Inc. All rights reserved



- Automatic Join to Important Meeting: If the meeting is marked as High Importance (Exclamation Mark) in Outlook, the XT/CU will automatically join the meeting when it starts, without requiring user intervention in the room (a popup is normally displayed asking to join the meeting that is going to start; if no one takes action, the important meeting will be automatically joined when it starts). If a call is already running when an important meeting is going to start, it will not be disconnected automatically (you need to manually join the new meeting).

Figure 5: **Important Meeting Marker (Exclamation Mark)**

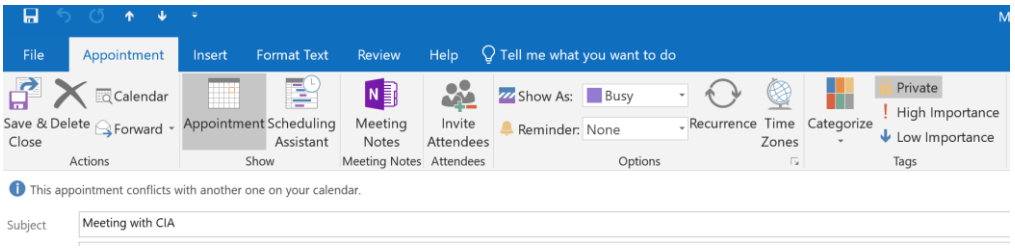


- FQDN List: Each entry represents a mapping rule between the FQDN of a meeting location and a number to dial in a SIP or H323 call to join the VR specified in the meeting location. As default, the list contains two predefined mappings, one for AEMO and one for OnAvaya (for intranet endpoints), but you can edit them or add others. Each mapping represents a dialling rule for a video endpoint to a specific Equinox Solution deployment. See "**Error! Reference source not found.**" to create a mapping.

Important

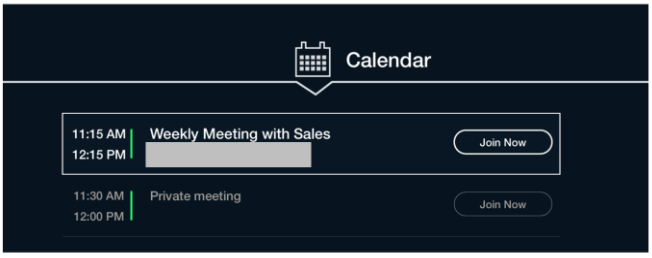
- If flagged "Private" as Outlook/Exchange Meeting, the meeting title on the endpoint UX/WEB/AT Command interfaces will be replaced with "Private Meeting"

Figure 6: **Private Meeting Marker (Lock Icon)**

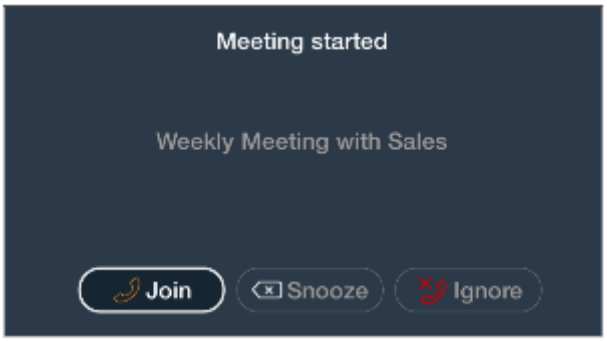


- The endpoint will merge Exchange calendar items with Equinox Management calendar items. The same indications for the Equinox Management calendar items are applied to the Exchange calendar items. In particular:
  - When the meeting is about to start (5 minute in advance), a "Join
  - Now" button will be displayed in the Calendar item for this meeting.

© 2019 Avaya Inc. All rights reserved



- A popup will also appear when the meeting is going to start or is started You can join immediately the meeting, or snooze the meeting for one minute, or ignore the meeting (and maybe start it manually later). Please note that if the meeting is marked as High Importance or has the AutoJoin flag in the location, even if you snooze the meeting it will be automatically joined when it starts.
- If you join a meeting when already in a call, the current call will be disconnected.



Important

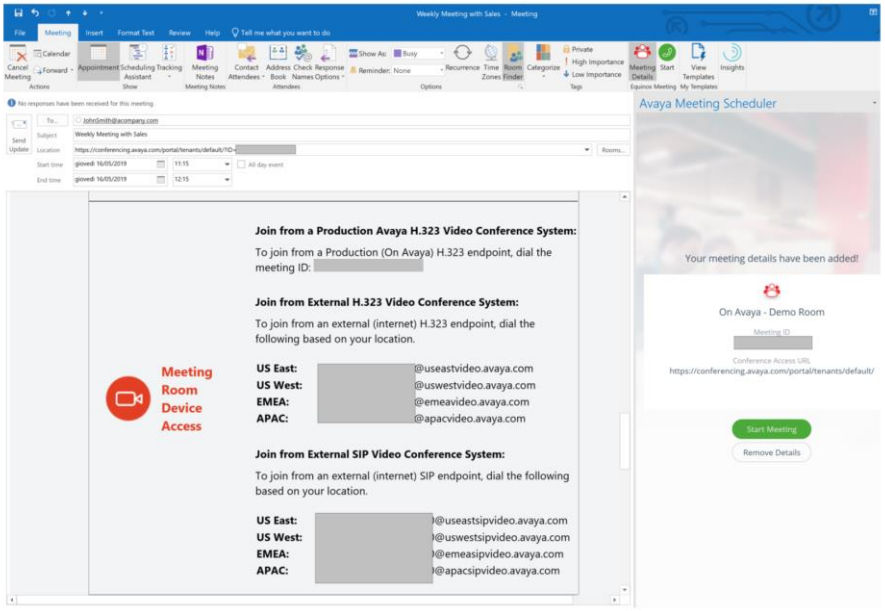
- If flagged “Private” as Outlook/Exchange Meeting, the meeting title on the endpoint UX/WEB/AT Command interfaces will be replaced with “Private Meeting”
- The join button and the popup will appear only if the location of the meeting corresponds to a valid FQDN mapping (see next section, a number to dial for the meeting is mapped from the invitation location or body). The join button will appear only a few minutes in advance.
- Only the meetings of the current day are visible.
- Once the end time of the meeting expires, it will be kept on the calendar for fifteen minutes and then removed.

How to Define Meeting FQDN Mappings

When using the Avaya Outlook plugin to create meetings in Avaya Equinox Solutions, an Exchange calendar invitation is automatically filled with the location of the meeting in your virtual room in the format below. The body of the invitation is also filled with details about how to join the meeting with an H.323 or SIP endpoint.

© 2019 Avaya Inc. All rights reserved

Figure 7: **Avaya Outlook Plugin for Outlook (Meeting Details)**



Defining a FQDN Meeting mapping allows your video endpoint to join the meeting with a single click on the calendar item shown on the endpoint UX or Web interface.

The endpoint applies the mapping to automatically generate the number to dial from the meeting location contained in the calendar entry.

The meeting location is usually in the format https://<MeetingFQDN>/portal/tenants/default/?ID=<MeetingID>

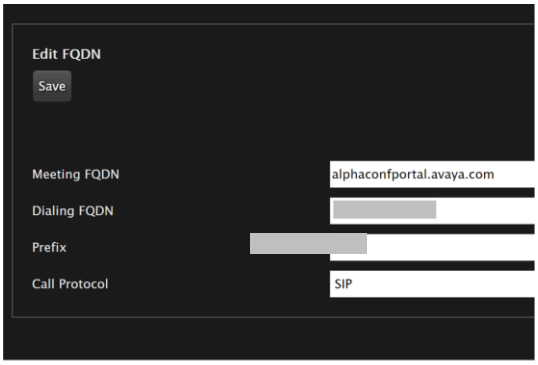
To generate a mapping to join any meeting (Virtual Room) hosted in this Equinox Conferencing Solution, create a New FQDN as follows.

Click New FQDN (or edit an existing FQDN).

- Meeting FQDN: matches what is after" https://" and before "/portal" in the Location, https://<MeetingFQDN>/portal/tenants/default/?ID=<MeetingID>
- Dialing FQDN: FQDN or IP Address of the Sip Server or Gatekeeper/PathFinder used in this Equinox Conferencing Solution. Can be empty if your endpoint is registered to a GK/PF/SipServer that can place a call in this solution or in other solutions adding a prefix to the VR. If your endpoint is external and not registered to this Solution, use the address specified in the invitation details after the@ ("Room Device Access" section). Otherwise usually it is the GK address or SIP server as configured in the Equinox Management for this solution. Ask to your IT administrator for support.
- Prefix: If your endpoint is registered to a GK or a PF or a SIP Server, this entity could require a prefix to reach a VR in another solution. For instance, you can add 281 to reach meetings in OnAvaya when registered to PreAlpha.
- Call Protocol: H323/SIP

© 2019 Avaya Inc. All rights reserved

Figure 8: **FQDN Definition**



Once a FQDN mapping is added in the list, the transformation rules from a Meeting Location to a number to call is as following (according to the selected call protocol):

```
Location:        https://<MeetingFQDN>/portal/tenants/default/?ID=<AnyVR/MeetingID>

H323 Call:       [<Dialing FQDN>##][prefix]<VR>

SIP Call:        [prefix]<VR>[@<Dialing FQDN>]
```

Table 1: **FQDN Mapping Examples**

```
Equinox Solution AEMO (Avaya Meetings Online - Cloud):
Meeting FQDN: meetings.avaya.com
Dialing FQDN: meetings.avaya.com
Prefix:
Call Protocol: SIP

Location: https://meetings.avaya.com/portal/tenants/9022/default/?ID=<VR>
SIP Call: <VR>@meetings.avaya.com

Equinox Solution OnAvaya:
Meeting FQDN: conferencing.avaya.com
Dialing FQDN: useastsipvideo.avaya.com //EXTERNAL ENDPOINTS - DEFAULT
Dialing FQDN: conferencingmgmt.avaya.com //INTERNAL ENDPOINTS, NOT REGISTERED TO ONAVAYA
Prefix:
Call Protocol: SIP
>>>
Location: https://conferencing.avaya.com/portal/tenants/default/?ID=<VR>
SIP Call: <VR>@useastsipvideo.avaya.com or ignored if you are already registered to OnAvaya
as internal endpoint; if you changed the default mapping, your mapping will be used.

NOTE: OnAvaya allows to join a meeting from inside the company if you are already registered
to OnAvaya (you have a sip number containing @net.avaya.com and are registered to an
internal onavaya sip server). If your endpoint is inside the company premises, but you are
not registered, you need to change the Dialing FQDN to conferencingmgmt.avaya.com

Equinox Solution Lab:
Meeting FQDN: host-10-134-72-204.anconalab.avaya.com
Dialing FQDN: 10.134.72.204
Call Protocol: SIP|H323
>>>
Location: https://host-10-134-72-204.anconalab.avaya.com:8443/portal/?ID=<VR>
>> SIP CALL TO <VR>@10.134.72.204
>> H323 CALL TO 10.134.72.204##<VR>
```

Important:

If your meeting location or body contains an “http[s]://” url and is not mapped to a Dialing FQDN, the CU will show such meeting as joinable and will open the default browser using the url as navigation address.

How to Retrieve your Exchange Server EWS Address

Microsoft's infrastructure is responsible for a huge percentage of global enterprise email, both on their cloud based Office365 service - and through their on-premise Microsoft Exchange Server solutions. When dealing with the mail aspect specifically, you will have likely seen the terms OWA (Outlook Web Access) and EWS (Exchange Web Services). OWA is a browser-based web app – known as "Outlook" or "Outlook on the Web". It is an email client, like the Microsoft Office Outlook

© 2019 Avaya Inc. All rights reserved

application, except accessible from any computer through a web browser. You visit OWA to check your email and calendar from the web.

EWS is instead a backend service, and non-end user facing service tool exposed to the internet so applications and devices, such as endpoints, can connect into Office365 or a private Exchange system to retrieve emails or calendars.

To retrieve an Exchange calendar, the endpoint must be able to access the EWS address over the internet, or on a private network.

If using Microsoft Office365, your Exchange Server Address (Exchange Web Services URL) is automatically retrieved using just your email address. So, the Exchange Server Address can be empty if using Microsoft Office365.

If using earlier Exchange Server version, you must specify the EWS server address in the endpoint Calendar configuration.

For earlier versions of Exchange, this address will always be in the format of something like:

https://<mymail.mydomain.com>/EWS/Exchange.asmx

To retrieve your Exchange Server EWS Address, you can follow below instructions.

For Microsoft Exchange Online

Access your email box account using Outlook Web App (OWA)
For OWA Click Options > See All Options > Account > My Account > Settings for POP, IMAP, and SMTP access
In the list of entries, locate the server name. The URL of exchange web service for the mailbox is the URL: **Error! Hyperlink reference not valid.**

For Microsoft Exchange (on premise)

The URL can be composed using the following syntax: https://<EXCHANGE_SERVER_HOSTNAME>/EWS/Exchange.asmx

---

Using Microsoft Exchange Management Shell

Most Exchange servers have the Client Access Server (CAS) role installed. This role gives them the possibility to receive and process EWS requests. If you confirm that your server has the ClientAccess server role installed, then its Fully Qualified Domain Name (FQDN) can be used to obtain the EWS URL in the following way:

```
https://<FQDN>/EWS/Exchange.asmx
```

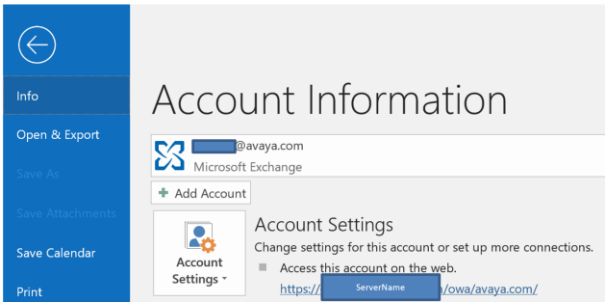
where <FQDN> is your machine's Fully Qualified Domain Name.

Open Exchange Management Shell and run the following command.
Get-WebServicesVirtualDirectory |Select name, *url* | fl
The output will be similar to the following:

```
Name                  : EWS (Default Web Site)
InternalNLBBypassUrl : https://server name/ews/exchange.asmx
InternalUrl           : https://server name/EWS/Exchange.asmx
ExternalUrl           : https://mail.domain.com/ews/exchange.asmx
```

Finding the EWS URL from an Outlook 2013 or higher installation

The server name is visible as “Access this account on the web” info in the Outlook Client, Info menu, in the format https://<yourserver>/owa/yourdomain
Extract the part before /owa… and use it as **`https://<yourserver>/EWS/Exchange.asmx`**



Important

- if your company uses Office365, the EWS address is always the same for all the organizations: https://outlook.office365.com/EWS/Exchange.asmx

© 2019 Avaya Inc. All rights reserved

- As it is a known address, **it can be left empty** in the Calendar configuration explained below.

How to Setup a Delegate Account for a Room

The procedure to follow depends on the specific release used for mail and calendar (Microsoft Office365 or Microsoft Exchange Server). Instructions for Office365 Exchange Online or Exchange Server 2013-2016 listed below are for convenience only and accuracy is not claimed. Please refer to official documentation and procedures available at https://docs.microsoft.com/en-us/Exchange.

Pay attention to change also the default settings for the room as explained in Change Calendar Room Resource Settings using PowerShell, if you want to see the Meeting subject and the private flag in the endpoint calendar.

How to Setup a Delegate Account for a Room in Office365

When an Exchange Room Resource is associated with an Avaya Video Endpoint in a physical room, the room's TV display shows the meetings scheduled for the day in the room. Members of your organization can schedule a meeting in a room by adding the room to the meeting. Such physical rooms are reserved as a calendar resource through the Exchange Calendar service.

Authorizing a video endpoint to have access to calendar resources enables users to start and join meetings in the room using one touch.

Before you can use the calendar service for Rooms, an Office365 administrator must do the following steps for your organization, if not already done:

- Create a dedicated user in Office365 who can manage calendars
- Create or locate a calendar resource for each Room
- Enable the dedicated user to have full delegate access to each calendar resource
- Enable the dedicated user to edit each calendar resource
- Update the settings for each calendar resource using Windows PowerShell

After the Office365 administrator completes all steps in each section, you can then use the credentials of the dedicated user (Room Delegate) to configure the Calendar service for a specific room in the corresponding video endpoint settings.

Important

Instructions for Office365 Exchange Online listed below are for convenience only, they could be different in your setup. Please refer to latest documentation and procedure available at https://docs.microsoft.com/en-us/Exchange/exchange-online

Prerequisites

- An Administrator Account with permission to create a new user on Office365
- The ability to create and manage calendars for rooms resources

Create a Dedicated User in Office 365 for Rooms

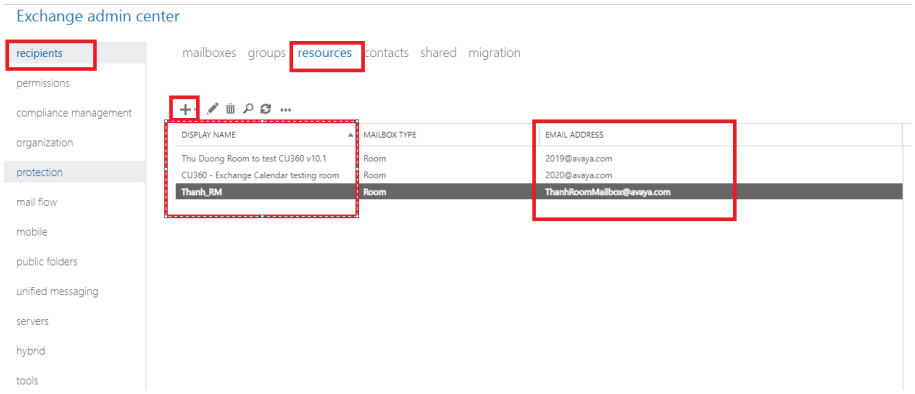
- Sign in to Office 365 as an admin.
- Add a user in your Office 365 account. See the Microsoft documentation "Add users to Office 365" for instructions. For instance, create an account named roomadmin@mycompany.com.
- Make note of the email address and password for this account.
- Proceed to the next step.

Create or Locate a Calendar Resource for Each Room

- Log in to https://outlook.office365.com/ecp as an admin.
- Go to Recipients > Resources

© 2019 Avaya Inc. All rights reserved

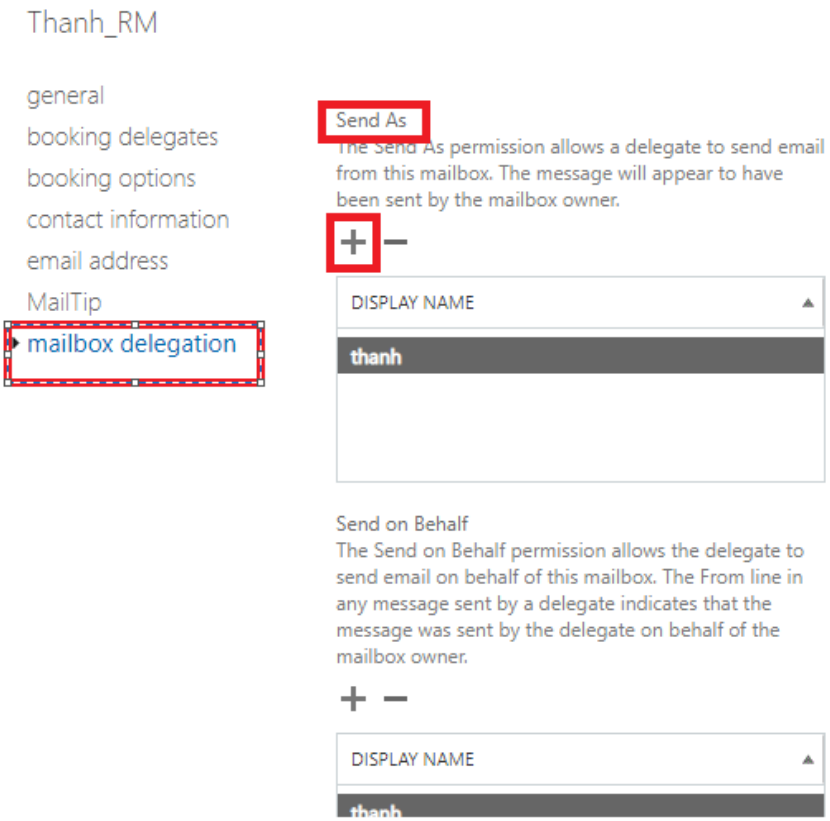
- Click on the plus (+) sign if you need to add a room.
  It is recommended that you use a prefix (such as Room) for each room or choose your own method for easily locating the Rooms.
- Make note of the display name and email address of each calendar resource.



- Proceed to the next step

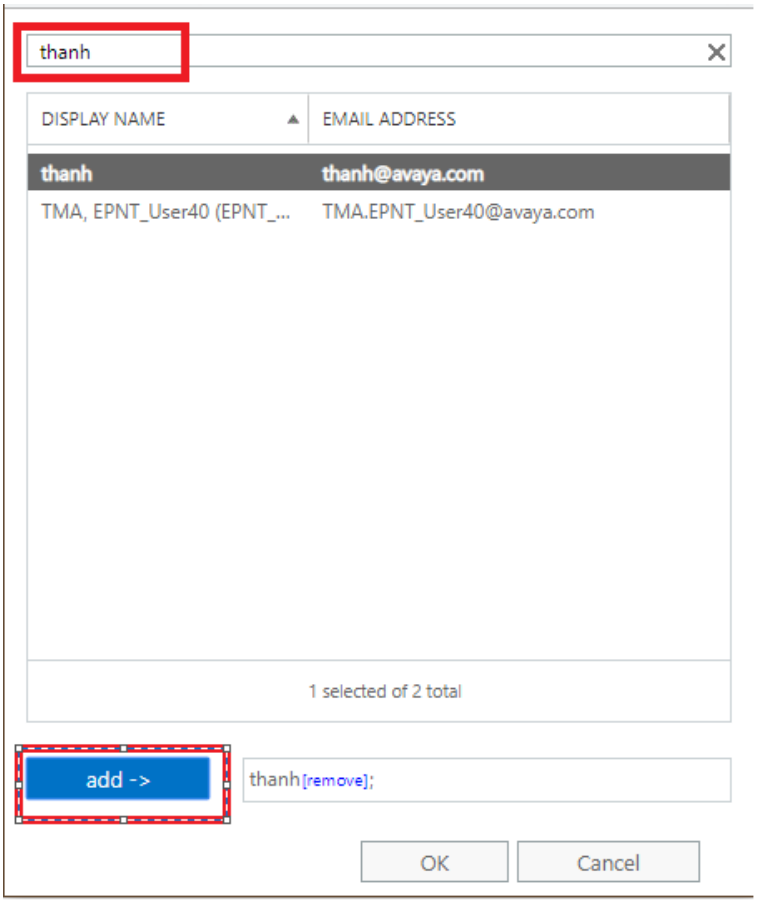
Delegate Rooms to the Dedicated User

- Log in to https://outlook.office365.com/ecp as an admin.
- Go to Recipients > Resources
- Double click the name of a room.
- Click “mailbox delegation”.

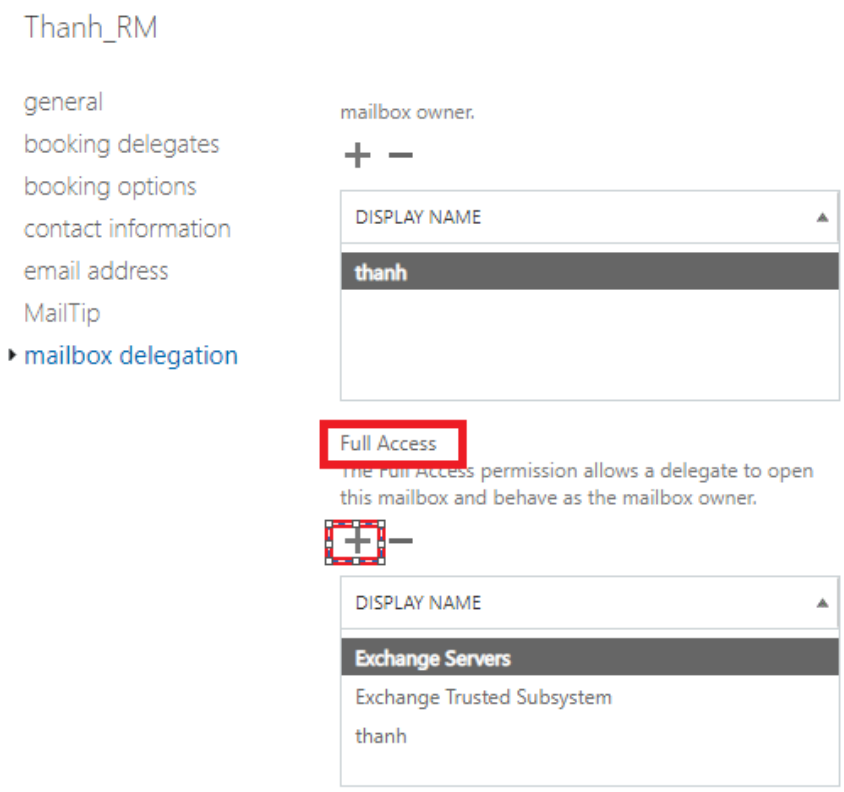


- Below the Send As section, click the plus (+) sign.
- Type the dedicate user name you want to search
- Click Add button to add the dedicated user as delegate

© 2019 Avaya Inc. All rights reserved

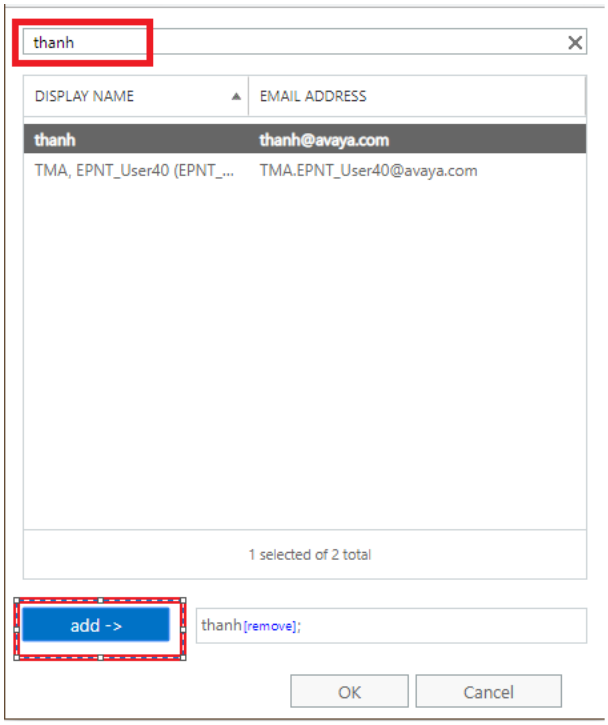


- Click OK.
- Scroll down to Full Access and click on the plus (+) sign.



- Select the dedicated user and click add->

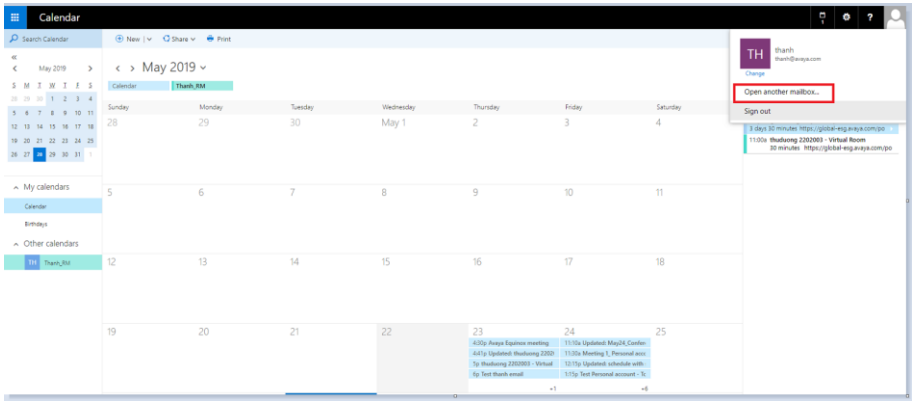
© 2019 Avaya Inc. All rights reserved



- Click OK.
- Click Save.
- Repeat steps above for each room.
- Proceed to next step

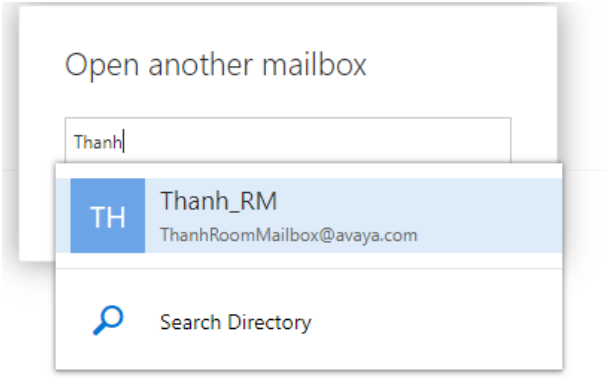
Enable the dedicated user to edit the Rooms calendars

- Sign in to https://login.microsoftonline.com with the dedicated user's email (such as roomadmin@mycompany.com)
- Open the dedicated user's "Calendar" and from the top navigation, click the dedicated user's name to open a drop down menu.
- Choose "Open another mailbox..."

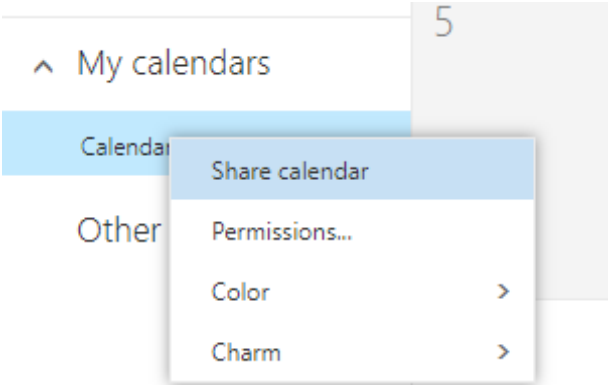


- This will open a Microsoft pop-up dialog window.
- Enter the name of the calendar Room resource you created in a previous section.

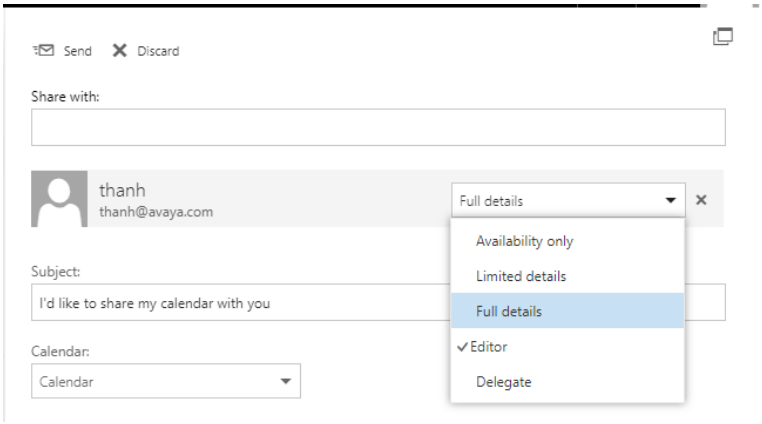
© 2019 Avaya Inc. All rights reserved



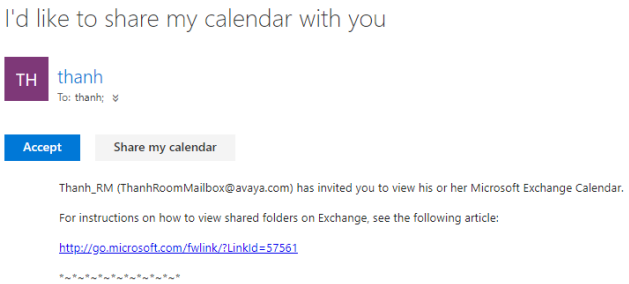
- This will open the calendar resource mailbox.
- Click on the calendar in the bottom left hand corner of the navigation pane for the calendar resource.
- Right click Calendar under "My Calendars" and choose Sharing Permissions.



- This will open the Share this calendar: Calendar dialog
- Enter the email for the dedicated user, choose Editor from the menu, and then click Share

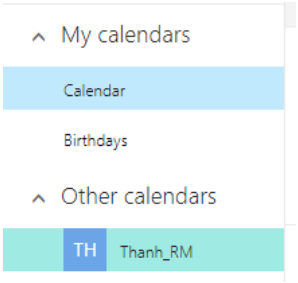


Open the mailbox for the dedicated user and accept the invitation from the calendar resource.



- This opens the Calendar tab.
- Ensure that you see the Room calendar resource listed on the left side of the page under Other Calendars.

© 2019 Avaya Inc. All rights reserved



Change Calendar Room Resource Settings using PowerShell

- **Note: this step is very important to view meeting subject and private flag also in Room calendars.**
- Start Exchange PowerShell using the “Run as Administrator” option.
  This option is available when you right-click the Exchange Powershell app without launching it.
- Enter following command:

```
$UserCredential = Get-Credential
```

- Enter the Office 365 administrator username/password in the dialog box.
  Make sure that this account has permissions for both “Organization Management” and “Recipient Management”.
- Prepare the session by running the following command:

```
$Session = New-PSSession -ConfigurationName Microsoft.Exchange -ConnectionUri
https://outlook.office365.com/powershell-liveid/ -Credential $UserCredential -
Authentication Basic -AllowRedirection
```

- *Note: If you are in China, the command you enter is slightly different. Use partner.outlook.cn in place of outlook.office365.com in the above command.*
- Connect the session using the following command.

```
Import-PSSession $Session
```

- If you see a message that begins “If you see error like “Import-PSSession : Files cannot be loaded…”, enter the following command:

```
Set-ExecutionPolicy Unrestricted
```

- Note that this command will fail if you are not running Windows Powershell as an Administrator, as required above.
- Check the settings for the calendar resource with following command, changing the value for “room_name” to the actual room name value.

```
Get-CalendarProcessing -Identity "room_name" | Format-
List Identity,DeleteComments,DeleteSubject,AddOrganizerToSubject,RemovePrivateProperty
```

- Verify the responses for the following values:
  "DeleteSubject", "AddOrganizerToSubject", "DeleteComments", and "RemovePrivateProperty",
  In most cases, these values are set to True.

```
Identity              : portertest.com/Users/room_name
DeleteSubject         : True
AddOrganizerToSubject : True
DeleteComments        : True
RemovePrivateProperty : True
```

- Change the settings for the room with following command, changing the value for “room_name” to the actual room name value.

```
Set-CalendarProcessing -Identity "room_name" -AddOrganizerToSubject $false -
OrganizerInfo $true -DeleteAttachments $true -DeleteComments $false -DeleteSubject
$false -RemovePrivateProperty $false
```

- After running these commands, the following settings will be set:

```
Identity              : portertest.com/Users/room_name
DeleteSubject         : False
AddOrganizerToSubject : False
DeleteComments        : False
RemovePrivateProperty : False
```

© 2019 Avaya Inc. All rights reserved

- Notes:
  - If you do not want to show the Calendar topic, change `DeleteSubject $false to DeleteSubject $true`
  - If you see an error such as “The operation couldn't be performed because object 'Room' couldn't be found on <yourdomain>'.”, that means the scope of the role group that grants you permission to run the cmdlet does not include the user/room. Make sure you are logged in with an admin account, as required above.
  - If you see an error such as “Set-CalendarProcessing command not found”, make sure the administrator account you used to log in to PowerShell has permissions in “Organization Management” and “Recipient Management”, as required above.
- Check the settings for the room after changing the settings, with the following command, changing the value for “room_name” to the actual room name value.

```
Get-CalendarProcessing -Identity "room_name" | Format-List
identity,deletesubject,addorganizertosubject,DeleteComments,RemovePrivateProperty
```

- Verify that the responses for the following values have been changed to False: "DeleteSubject", "AddOrganizerToSubject", "DeleteComments" and "RemovePrivateProperty"

```
Identity              : portertest.com/Users/room_name
DeleteSubject         : False
AddOrganizerToSubject : False
DeleteComments        : False
RemovePrivateProperty : False
```

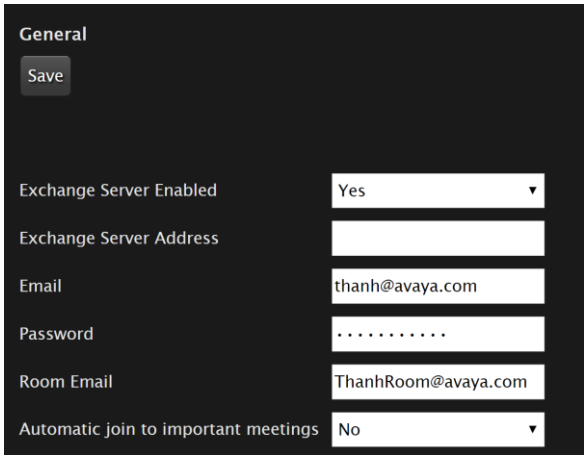
- Repeat Steps above for each Room calendar, changing only the room name in each command.
- Disconnect the session with the following command:

```
Remove-PSSession $Session
```

- Close Windows Powershell.
- Proceed to the next step.

Add the Calendar Service to your Video Endpoint

- To enable the Office 365 calendar service to your endpoint:
- Sign in to the endpoint web portal as an administrator (Admin/1234).
- Type the email address and password of the dedicated user for the calendar service.
- Add the mail address of the room resource corresponding to the physical room.
- Leave the Exchange Server Address empty.



How to Setup a Delegate Account for a Room in Exchange 2016

When an Exchange Room Resource is associated with an Avaya Video Endpoint in a physical room, the room’s TV display shows the meetings scheduled for the day in the room. Members of your organization can schedule a meeting in that room by adding the room to the meeting as Room Resource. Such physical rooms are reserved as a calendar resource through the Exchange Calendar service.

© 2019 Avaya Inc. All rights reserved

Authorizing a video endpoint to have access to calendar resource associated to the Room Resource enables users to start and join meetings in a snap.

Before you can use the calendar service for Rooms, an Exchange administrator must do the following steps, if not already done:

- Create a dedicated user in Exchange who can manage calendars
- Create or locate a calendar resource (Room Resource) to be used for each physical room associated to a video endpoint.
- Enable the dedicated user to have full delegate access to each calendar resource
- Enable the dedicated user to edit each calendar resource
- Update the settings for each calendar resource using Powershell

After the Exchange administrator completes these steps, you use the delegate user credentials to configure the Calendar service for a specific room in the corresponding video endpoint settings.

Important

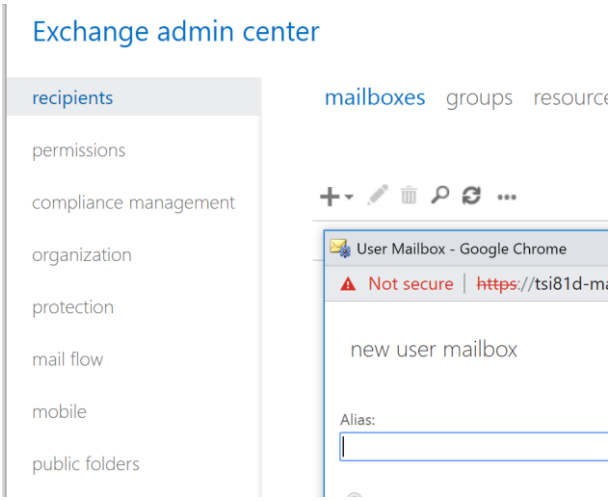
Instructions for Exchange Server listed below are for convenience only, they could be different in your setup. Please refer to latest documentation and procedure available at https://docs.microsoft.com/en-us/exchange/#pivot=home&panel=home-all

Prerequisites

- An Administrator Account with permission to create a new user on Exchange 2016.
- The ability to create and manage calendars for rooms resources
- Your network, including firewalls and proxies, must allow traffic to the server.

Create a Delegate Account

- Log into your local ECP (Exchange Control Portal) as admin.
- Go to “recipients” > “mailboxes”. Click “+”
- Select “User mailbox" as mailbox type.

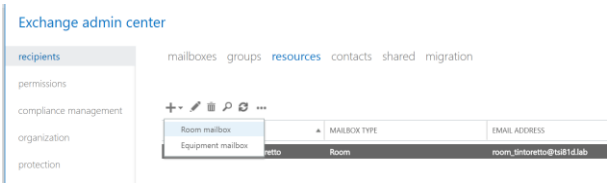


- Create an email address, for example, room_admin@company.com
- Make a note of the “User login name” and “password”
- Proceed to the next step

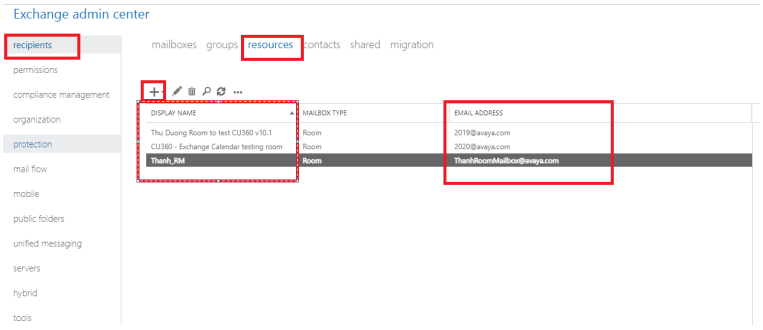
Create or Obtain the Room and Room Email

- Log into your local ECP as an admin
- Go to "recipients">resources"
- Click on the plus (+) sign and select Room mailbox if you need to create a new room.

© 2019 Avaya Inc. All rights reserved

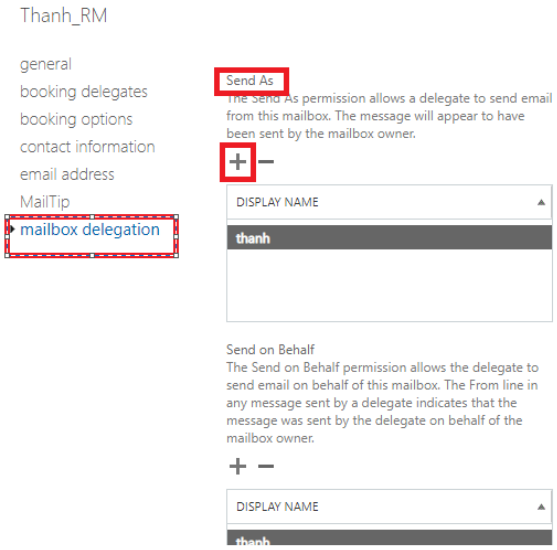


- Once your rooms are created, or if the rooms already exist, make a note of the display names of your rooms and email addresses for all the rooms you want to associate to the delegate account.
- Proceed to the next step



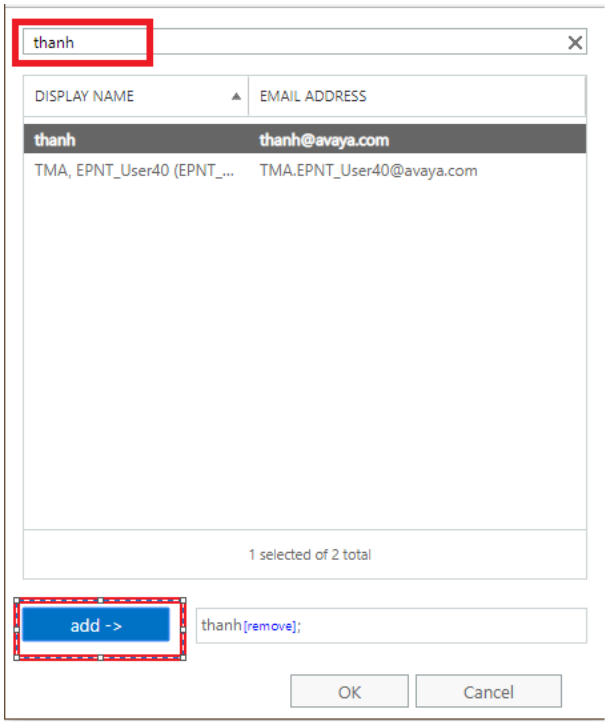
Delegate Rooms to the Dedicated User

- Log into ECP as an admin
- Go to "recipients">"resources"
- Double click the name of a room.
- Click "mailbox delegation"

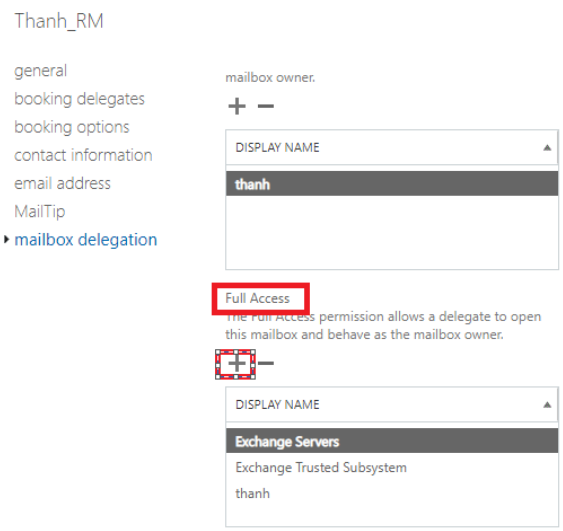


- Below the Send As section, click the plus (+) sign.
- Type the dedicate user name you want to search
- Click Add button to add the dedicated user as delegate

© 2019 Avaya Inc. All rights reserved

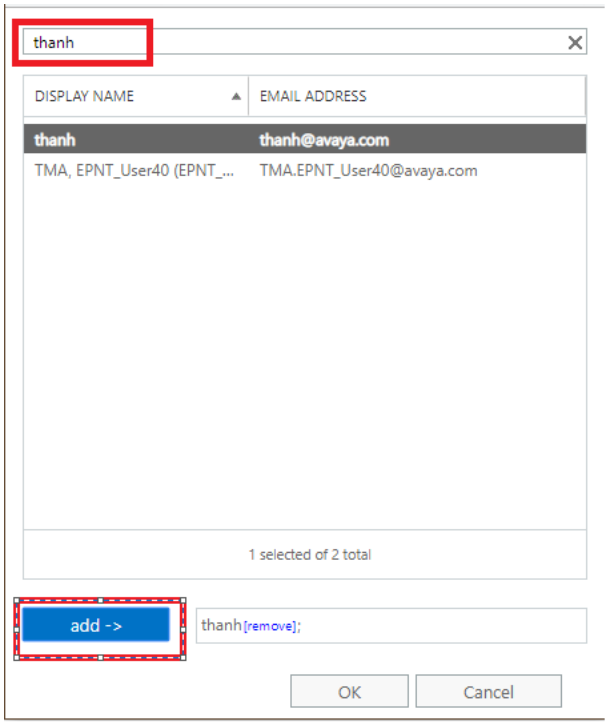


- Click OK.
- Scroll down to Full Access and click on the plus (+) sign.



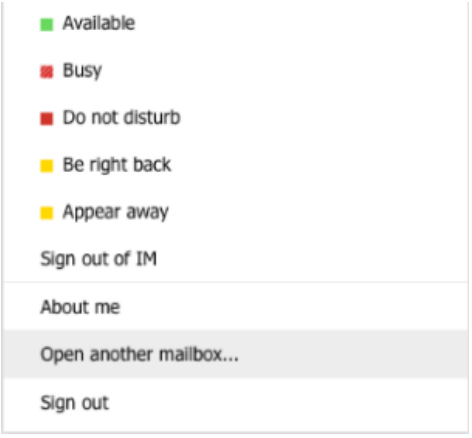
- Select the dedicated user's email and click add->

© 2019 Avaya Inc. All rights reserved



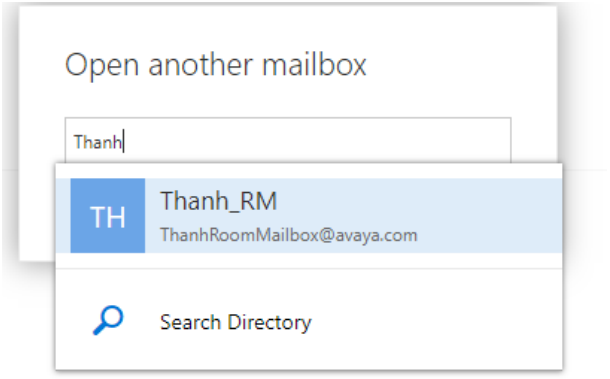
Enable the dedicated user to edit the Rooms calendars

- Login to https://login.microsoftonline.com with the dedicated user's email (such as roomadmin@mycompany.com or thanh@avaya.com below)
- Open the dedicated user's "Calendar" and from the top navigation go to the user's drop-down menu and click on "Open another mailbox..."

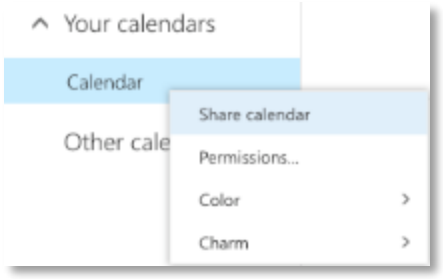


- This will open a Microsoft pop-up dialog window. Input the Room resource you would like to be a delegate for.

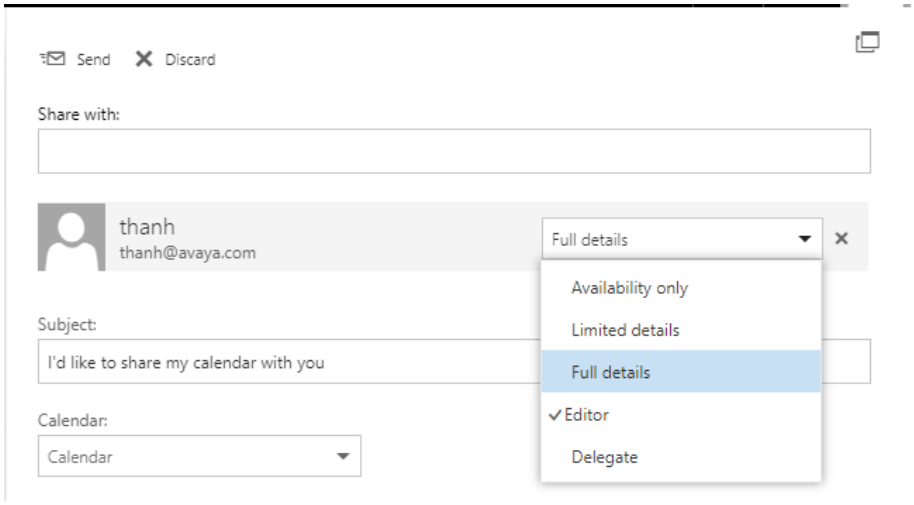
© 2019 Avaya Inc. All rights reserved



- This will open the Room resource mailbox. Click on the calendar in the bottom left hand corner of your navigation.
- Right click under "Your Calendars" and click on "Share calendar"

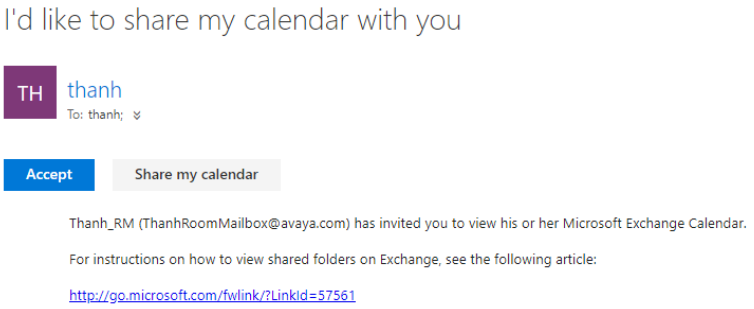


- This will open Microsoft's Share calendar dialog window. Enter the delegate email and share "Editor" access. Click "Send" in the top left corner of this dialog window.

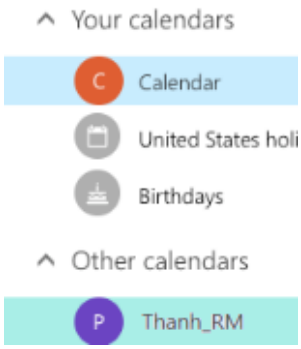


- Log into the delegate email and check your inbox. Click on the invitation from the Room resource and "Accept" the invitation.

© 2019 Avaya Inc. All rights reserved

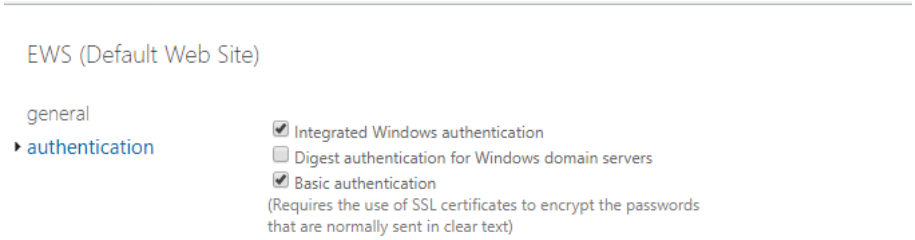


- Accepting the invite will open the calendar tab. You should see the Room resource calendar listed on the left side of the page under Other Calendars. Ensure this calendar is accounted for.

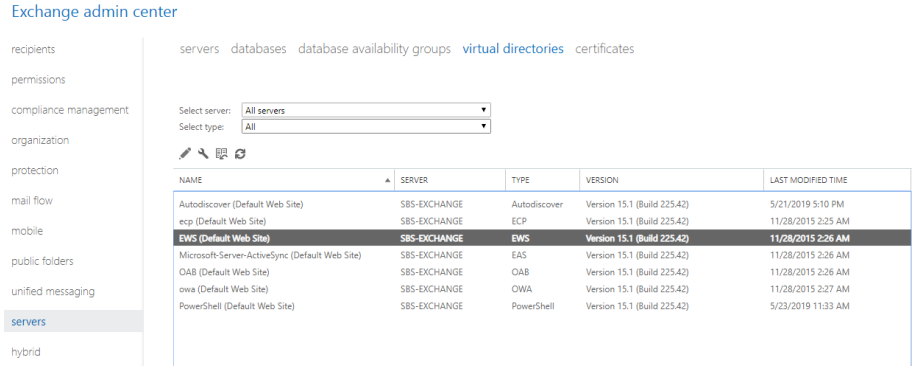


Enabling Basic Authentication or NTLM Authentication:

- Note: Endpoints supports only Basic authentication for on-premise solutions such as Exchange server.
- Go to Exchange Control Panel > "servers"
- Switch to "Virtual Directories" double click "EWS"
- In EWS click on "Authentication"

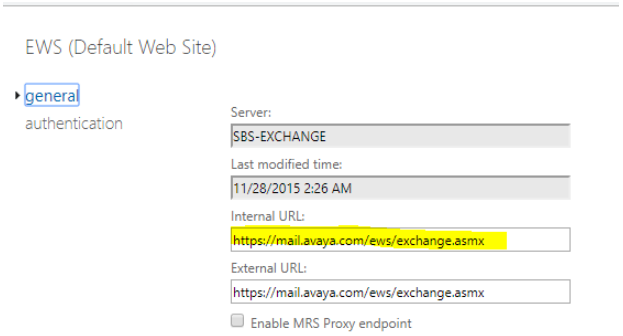


- Check the basic authentication check box and click "Save"
  Find EWS URL
- Go to Exchange Control Panel > "servers"
- Switch to "Virtual Directories" double click "EWS" > "General"



- Locate the EWS URL

© 2019 Avaya Inc. All rights reserved



Change Calendar Room Resource Settings using PowerShell

- **Note: this step is very important to view meeting subject and private flag also in Room calendars.**
- Login to Exchange server using the LDAP user which have the admin/exchange domain right
- Start Exchange Management Shell (EMS) using the “Run as Administrator” option.
  This option is available when you right-click the EMS app without launching it.
- Check the settings for the calendar resource with following command, changing the value for “room_name” to the actual room name value.

```
Get-CalendarProcessing -Identity "room_name" | Format-
List Identity,DeleteComments,DeleteSubject,AddOrganizerToSubject,RemovePrivateProperty
```

- Verify the responses for the following values:
  "DeleteSubject", "AddOrganizerToSubject", "DeleteComments", and "RemovePrivateProperty",
  In most cases, these values are set to True.

```
Identity              : portertest.com/Users/room_name
DeleteSubject         : True
AddOrganizerToSubject : True
DeleteComments        : True
RemovePrivateProperty : True
```

- Change the settings for the room with following command, changing the value for “room_name” to the actual room name value.

```
Set-CalendarProcessing -Identity "room_name" -AddOrganizerToSubject $false -
OrganizerInfo $true -DeleteAttachments $true -DeleteComments $false -DeleteSubject
$false -RemovePrivateProperty $false
```

- After running these commands, the following settings will be set:

```
Identity              : portertest.com/Users/room_name
DeleteSubject         : False
AddOrganizerToSubject : False
DeleteComments        : False
RemovePrivateProperty : False
```

- **Notes:**
  - If you do not want to show the Calendar topic, change `DeleteSubject $false to DeleteSubject $true`
  - If you see an error such as “The operation couldn't be performed because object 'Room' couldn't be found on <yourdomain>'.”, that means the scope of the role group that grants you permission to run the cmdlet does not include the user/room. Make sure you are logged in with an admin account, as required above.
  - If you see an error such as “Set-CalendarProcessing command not found”, make sure the administrator account you used to log in to PowerShell has permissions in “Organization Management” and “Recipient Management”, as required above.
- Check the settings for the room after changing the settings, with the following command, changing the value for “room_name” to the actual room name value.

```
Get-CalendarProcessing -Identity "room_name" | Format-List
identity,deletesubject,addorganizertosubject,DeleteComments,RemovePrivateProperty
```

- Verify that the responses for the following values have been changed to False:
  "DeleteSubject", "AddOrganizerToSubject", "DeleteComments" and "RemovePrivateProperty"

© 2019 Avaya Inc. All rights reserved

```
Identity              : portertest.com/Users/room_name
DeleteSubject         : False
AddOrganizerToSubject : False
DeleteComments        : False
RemovePrivateProperty : False
```

- Repeat Steps above for each Room calendar, changing only the room name in each command.
- Close Exchange Management Shell
- Proceed to the next step.

Add the Calendar Service to your Video Endpoint

To enable the calendar service to your endpoint:

- Sign in to the endpoint web portal as an administrator (Admin/1234).
- Type the email address and password of the dedicated user for the calendar service.
- Add the mail address of the room resource corresponding to the physical room.
- **Fill in the Exchange Server Address.** See How to Retrieve your Exchange Server EWS Address

Telepresence Direct Call

In this release, you can have a telepresence instance call directly another remote telepresence instance through your favourite contacts.

Telepresence Triplet and Duplet

A Telepresence instance can be a TP Duplet or Triplet.

Important

- With XT Series, you can only define a TP instance as a triplet.
- Third party telepresence instances can be triplets or duplets

A TP **Triplet** (XT Series or third party) is defined by three devices, each one with a number/IP address to call, as you see on their displays or from a known configuration. From the left to the right: Slave1, Master, Slave 2.

Figure 9: **TP Triplet**



A TP **Duplet** (third party only) is defined by two devices, each one with a number/IP address to call, as you see on their displays or from a known configuration. From the left to the right: Slave1, Master.

Figure 10: **TP Duplet**



© 2019 Avaya Inc. All rights reserved

Important

- Possibility to receive direct calls from other TP setups can be limited by your network configuration. For instance, if your TP setup is registered to a GK or a SIP server you need to be called using your E.164 or sip alias in place of the IP address.

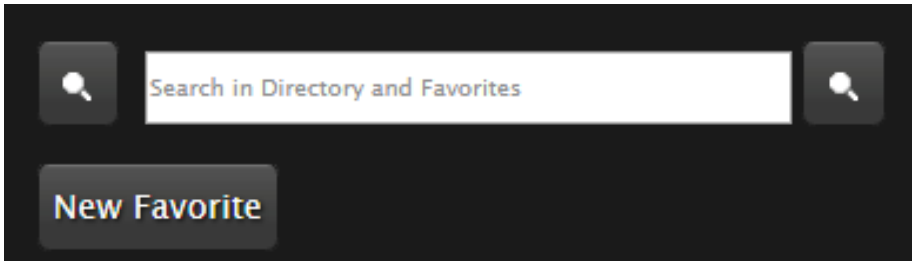
Creating Meeting Call Entries

Using your own TP instance, you can place a direct call to another TP instance by defining a special contact entry in your TP's master Favorites.

To create a contact representing a TP instance for a direct call, go to the Web interface of your TP's Master device. Press **Save** for each change.

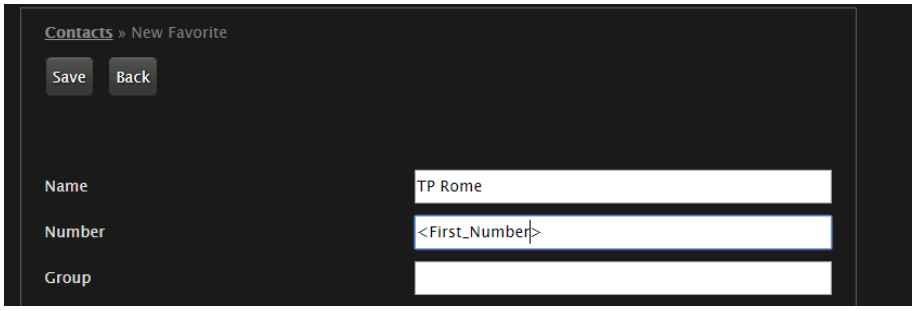
[Web] > Basic Options – Contacts>New Favorite**.**

Figure 11: **Add a Favorite**



Insert the TP name and the number and the other info for the first element (Slave 1) of the remote TP instance.

Figure 12: **Define the TP name and the first number**



Save and go back. A single entry will be displayed. Press Edit on that item.

© 2019 Avaya Inc. All rights reserved

Figure 13: **The TP entry – First Step**

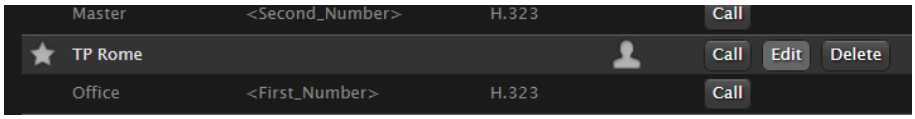
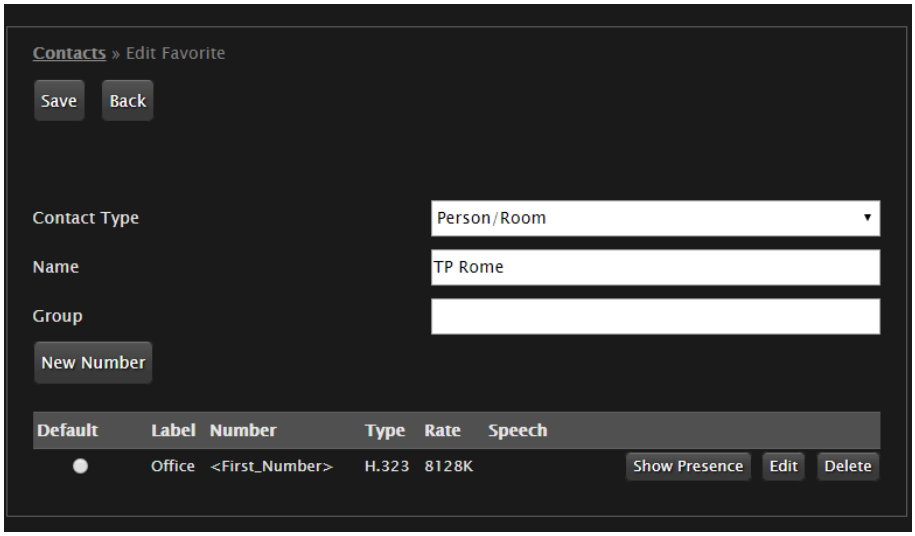


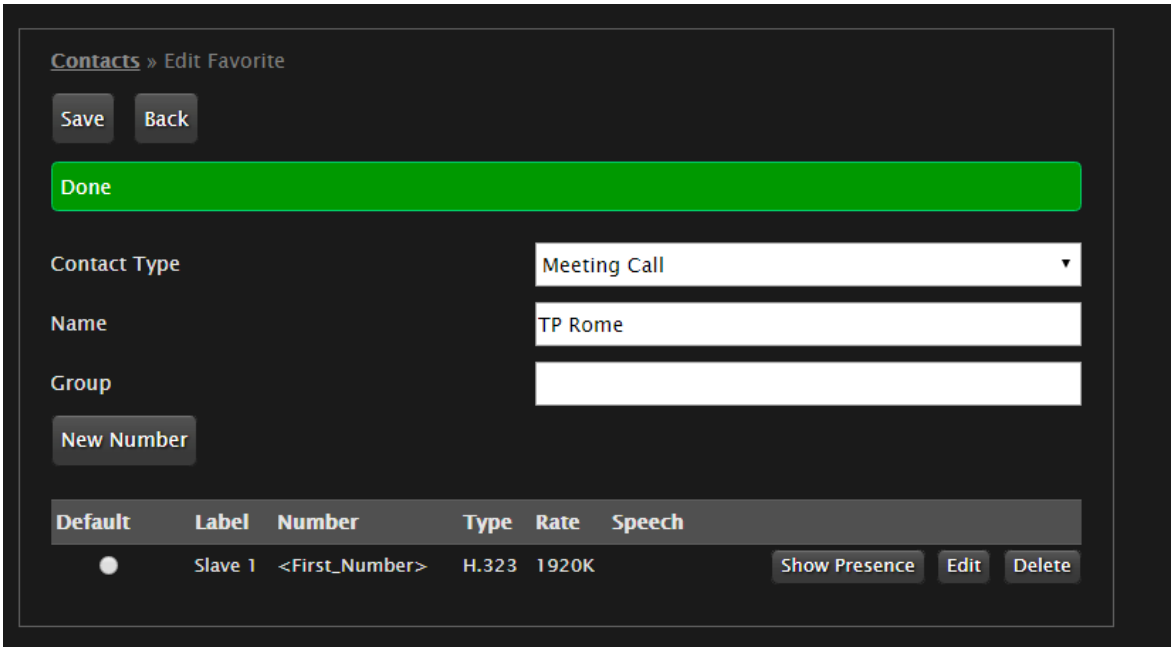
Figure 14: **The TP entry – Modify the Contact Type**



Change the Contact Type from Person/Room to Meeting Call.

Also press edit over the default number and change the Label from “Office” to “Slave 1” or any other name representing the left element of the TP instance.

Figure 15: **The TP entry – Modify the Default Number Label**

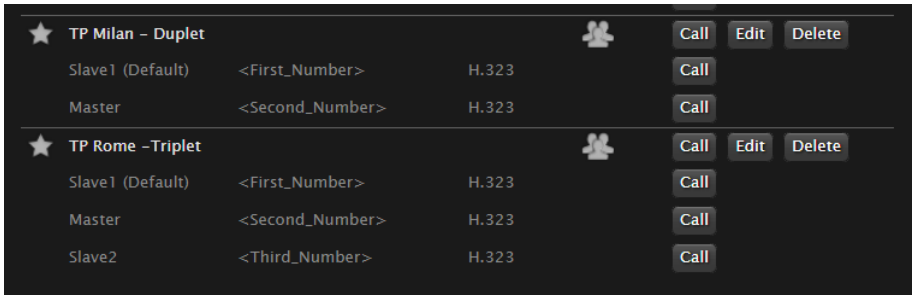


Now press New Number and add a number for the Master element; if the remote TP instance is a triplet, press again New Number to create a number for the Slave 2 element.

Below picture shows the created Contacts for a Duplet and a Triplet

© 2019 Avaya Inc. All rights reserved

Figure 16: The TP entries for a TP Duplet and Triplet



Placing a call

To summarize, a Meeting Call Favorite contact defined in the master of your TP instance represents a TP direct call, instructing your TP instance how to call another TP instance without using Avaya Equinox Management.

A Meeting Call with three numbers represents a TP Triplet

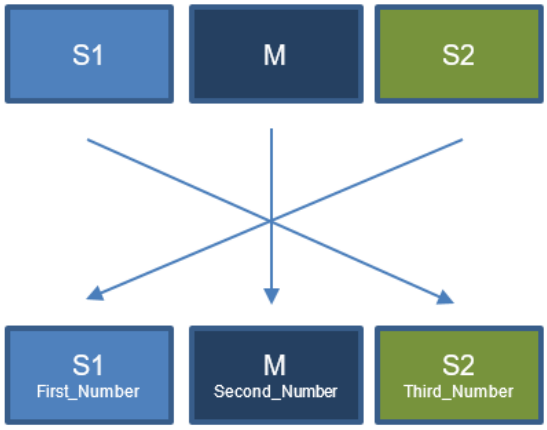
- First Number: Slave 1
- Second Number: Master
- Third Number: Slave 2

A Meeting Call with two numbers represents a TP Duplet

- First Number: Slave 1
- Second Number: Master

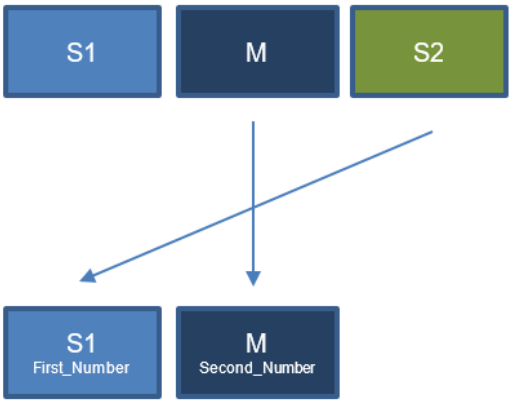
When placing a Meeting Call from your TP's master endpoint, the result depends on which TP instance you are calling.

- Your TP Triplet to a Triplet
  - Your Slave 1 will call the third number (Slave 2)
  - Your Master will call the second number (Master)
  - Your Slave 2 will call the first number (Slave 1)



- Your TP Triplet to a Duplet
  - Your Master will call the second number (Master)
  - Your Slave 2 will call the first number (Slave 1)
  - Your Slave 1 will not place calls

© 2019 Avaya Inc. All rights reserved



Important

- Possibility to receive direct calls by **IP Address** from other TP setups can be limited by your network configuration. For instance, if your TP setup is registered to a GK or a SIP server you need to be called using your E.164 or sip alias in place of the IP address.

Touch Screen Support

In addition to the supplied remote control you can operate the Avaya XT Series endpoint with a standard touch screen display. The display only needs to be connected through HDMI and the USB interface.

Having a touch screen display attached to your endpoint makes it easier to type using the simplified qwerty virtual keyboard (visible on the screen by tapping on any edit field) and to access the menu.

When you connect a touch screen display to your endpoint, please assure that a standard multitouch touch screen monitor supporting is used (the monitor must not require any driver installation for the operating system).

Important

- In this release some functionalities are not available through the touch screen (for instance changing the volume or turning off the system). Please use the remote control in those cases.
- To go back to previous page or exit from a page, click or touch on an empty area of the screen.
- If an item has both a selection state and an action associated to it, double click for the action. For instance, select a recorded item with a single click to see its details and double click on it to play it. For instance, click on a redial item to select it and double click to place a call.

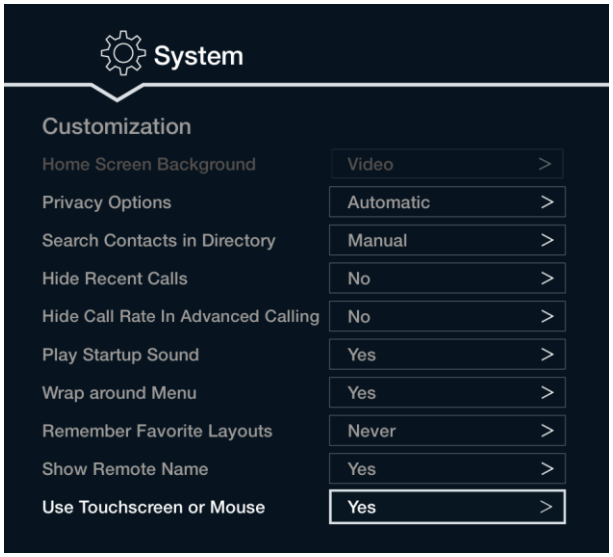
To enable mouse or touch screen support, browse to

[GUI] CONFIGURE > ADVANCED > SYSTEM> CUSTOMIZATION
[WEB] ADVANCED SETTINGS >SYSTEM>CUSTOMIZATION - GENERAL

- Use Touchscreen or Mouse: Yes/No*

© 2019 Avaya Inc. All rights reserved

Figure 17: **Enable Use Touchscreen or Mouse**



A white square cursor is displayed on the screen when the Mouse or Touchscreen is enabled.

Figure 18: **Mouse cursor on the XT screen**



Important

- In local presentation mode, the cursor is hidden.
- A simple qwerty keyboard will be shown when pressing on an edit field. To close the keyboard, press on the keyboard symbol on the bottom-right. To insert caps, press the Up arrow on the left. To show additional symbols, press “!=*”
- The keyboard does not follow your language or country preferences.

Figure 19: **The XT Series Virtual Keyboard**



Important

For XTE240: This setting is available only if the endpoint is configured as “Standard Room Endpoint”. For “Personal/Shared Endpoint” use the Avaya XT Control app to emulate mouse and keyboard.

© 2019 Avaya Inc. All rights reserved

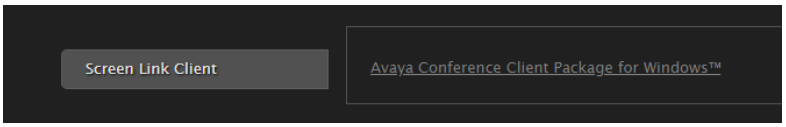
Screen Link Enhancements

A few enhancements are present in this release for Screen Link.

Get Screen Link Client from Endpoint

In this release it is possible to install an Avaya Conference Client for Screen Link directly from the endpoint, to enable sharing from your computer to XT Series without using a cable.
You can browse to the XT Series web page and click on Avaya Conference Client package for Windows/Mac.

Figure 20: Download Screen Link Client from XT Web Interface



Once installed, search “About” to launch the Conference Client if not automatically started. You can close the About message and the Conference Client will be available through the tray bar.

Figure 21: Installed Screen Link Client App for Windows

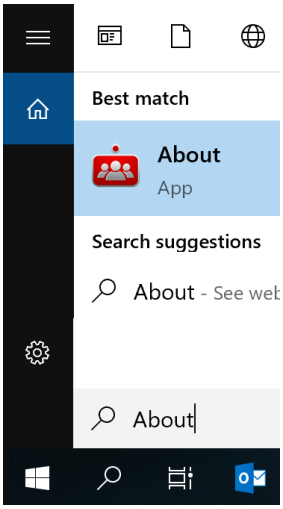
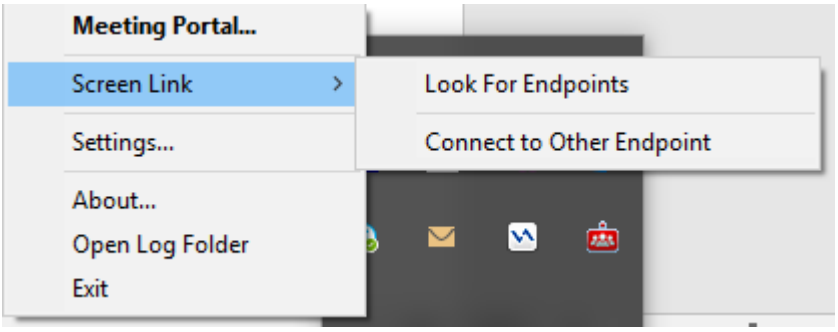


Figure 22: Screen Link Pairing



- **Look for Endpoints** (Automatic acoustic pairing): this option will generate an ultrasonic sound (≈18 kHz, preceded by an audible short beep) that can be detected by a nearby XT (using 3-way pod or 1-way pod) for acoustic pairing. A list of all the detected XT will be displayed, together with their status (represented by icons). Detected XTs **automatically wake up** from standby mode to display on their screen the title bar with their name and IP address. You can choose an endpoint from the list to pair your computer with the endpoint

© 2019 Avaya Inc. All rights reserved

- **Enter a Manual Location /Connect to Other Endpoint** (Manual pairing): you can manually select an endpoint by its IP address. If the Codec Unit is in stand-by mode, you need to wake up the Unit using its remote-control unit, to be able to see its IP address.

Once the client is successfully paired to a selected endpoint, the app icon on the tray bar might change while XT will show below icon (white) on the title bar.

Figure 23: **Icons on Codec Unit when Screen Link is active (Client paired)**



Configure Screen Link Unpair Mode

A Screen Link Client keeps its pairing with the selected endpoint until the client ends or stops the connection. Also, the endpoint can terminate the connection and unpair from the Client. It typically happens when:

- Another Screen Link Client connect to your endpoint when the first client is not presenting
- A DVI cable is plugged in the endpoint
- You disable the Screen Link feature from the configuration
- The endpoint is rebooted.

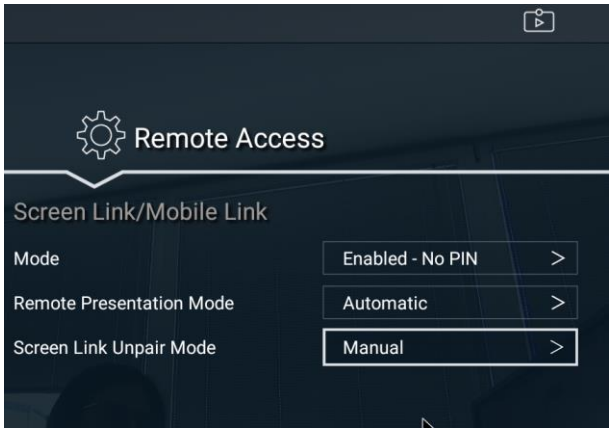
In this release you can also configure how the endpoint can unpair a connected screen link client.

Browse to

[GUI] CONFIGURE >ADVANCED>UTILITIES>REMOTE ACCESS>SCREEN LINK/ MOBILE LINK
[WEB] ADMINISTRATOR SETTINGS>UTILITIES>REMOTE ACCESS> SCREEN LINK/ MOBILE LINK

- Screen Link Unpair Mode:
  - Manual*: Unpair the Screen Link manually, see next section
  - Automatic: Unpair the Screen Link client at the end of the meeting, but only if the pairing was started during the meeting
  - When the meeting ends: Unpair Screen Link clients at the end of the meeting, even if the pairing was started before the meeting (local presentation mode)

Figure 24: **Unpair Screen Link Mode Configuration**



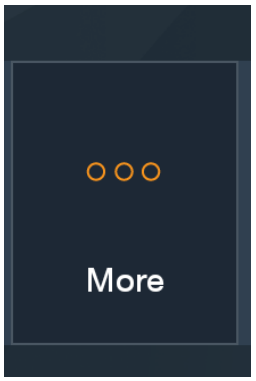
Unpair Screen Link Manually

To unpair a Screen Link client manually.

© 2019 Avaya Inc. All rights reserved

When not in a call, select “More” in home page, then select Unpair Screen Link.

Figure 25: **More Option in Home Page**



Note: “More” choice in home page is available only if a Screen Link client is paired or a streaming session can be activated or is available.

Figure 26: **Unpair Screen Link**



When in a call, Open the call panel, Meeting Options > Unpair Screen Link

802.1p - QoS for 802.1q

802.1p represents a Quality of Service (QoS) technique, also known as class of service (CoS), based on a 3-bit field called the Priority Code Point (PCP) within an Ethernet frame header when using VLAN tagged frames as defined by IEEE 802.1q (802.1p is QoS for 802.1q).

Eight different classes of service (Priority Levels) are available as expressed through the 3-bit PCP field in an IEEE 802.1Q header added to the frame. The way traffic is treated when assigned to any service is undefined and left to the implementation.

The lowest possible level is 0, the highest is 7.

VLAN Priority levels

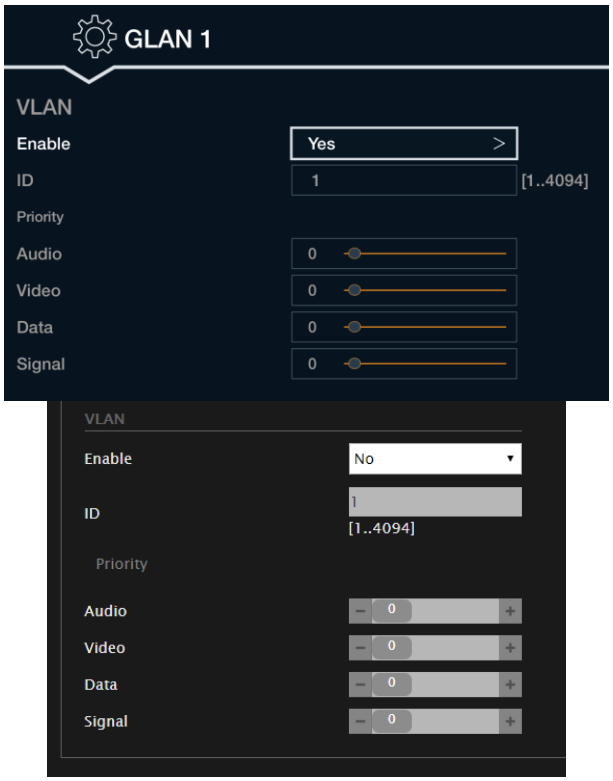
If your endpoint is configured to use 801.q and VLAN, and your network deployment supports 802.1p you can change the priority levels for each VLAN:

[GUI] CONFIGURE > ADVANCED > NETWORKS > GLANX > VLAN
[WEB] ADVANCED SETTINGS > NETWORKS > GLANX > VLAN

© 2019 Avaya Inc. All rights reserved

You can specify a priority value of between 0 and 7 inclusive that can be used by QoS disciplines to differentiate traffic over VLAN.

Figure 27: VLAN 802.1p Priorities



Enhancements

This release introduces a few enhancements and fixings

- In this release you can activate or deactivate privacy directly for the Top Bar Info Header in XTE when used with the XT PC Control application
- In local presentation mode, the XT7100 endpoint is now able capture 1600x1200 resolutions from its HD1 input (when configured to be used for presentation). This resolution is typical of medical X-ray applications. When not in local presentation mode, this input will be downscaled at 800x600. Please note that the signal format connected to HD1 must be YCbCr 422 for any resolution higher than 1080p.
- By default, live video resolution is set to Sharpness in place on Motion (on default factory settings or new installations)
- Additional Audio Codecs (G.728, G729A/B) are now available without license.
- The endpoint will automatically try to connect using TLS/TCP/UDP in this order when configured in TLS, in TCP/UDP when configured in TCP, for SIP calls. This improves automatic interoperability with third party SIP endpoints which do not support TLS or TCP.

Control API Extension (AT Commands)

AT commands can be used to control XT Series or XT Series devices.

The following commands have been extended or added since last major API documentation release.

© 2019 Avaya Inc. All rights reserved

For full documentation, refer to https://support.avaya.com/downloads/download-details.action?contentId=C20143693548450_0&productId=P1430

Table 2: **Recently Added or Modified Control API Commands**

Version	New/ Extended	Command/ Indication	Description
CU 10.1.0 XT 9.2	Extended	CD	Join a meeting
CU 10.1.0 XT 9.2	New	DO	Get Calendar general information
CU 10.1.0 XT 9.2	New	DA	Get Calendar meetings list
CU 10.1.0 XT 9.2	New	FG	Calendar meetings list notification
CU 10.1.0 XT 9.2	New	RF	Get/Set Calendar credential configuration
CU 10.1.0 XT 9.2	New	DN	Get/Set FQDN aliases management

© 2019 Avaya Inc. All rights reserved

Software Upgrade & Downgrade

This section explains how to upgrade or downgrade XT Series software.

Signed Software Packages

Since release 9.0, XT Series software packages are signed by an Avaya Certificate Root Authority recognized by the XT Series.

Only verified signed software packages will be accepted by XT Series once upgraded to this release.

A software package will be installed only if XT verifies that:

- The software package is signed by Avaya IT Root Authority and produced by an authorized build server.
- The software package content is not tampered or changed in any way.

For this reason, the XT Series upgraded to 9.0 releases will no longer accept by default software packages which have not been signed.

This means that to downgrade XT Series to a previous version you must manually disable the verification of the downloaded package signature. Browse to:

[GUI] CONFIGURE >ADVANCED>UTILITIES>REMOTE ACCESS>DOWNLOAD
[WEB] ADMINISTRATOR SETTINGS>UTILITIES>REMOTE ACCESS>DOWNLOAD

- Verify Signature: Yes*/No.

Important

- The Verify Signature option does not apply to recovery mode. It is not possible to force an XT version 9.0 or higher to accept an unsigned package when in recovery mode. See Known Issues, “Software Upgrade & Downgrade” section and the table below.

Important

- The signed package version cannot be uploaded directly on an XT running a version 8.3.x or earlier by USB or XT Web interface or AT interface or iView. You need to use a special unsigned package in this case. Ask Customer support to receive an unsigned package.

Table 3: **XT Software Update Verification Table**

XT Mode	Recovery Mode		Normal Mode	
SW update done by	PC	USB	PC/Management	USB/AT/WEB
Unsigned package (8.3.x)	XT <= 8.3.x: accepted	XT <= 8.3.x: accepted**	XT <= 8.3.x: accepted	XT <= 8.3.x: accepted
	XT >= 9.0: not accepted	XT >= 9.0: not accepted	XT >= 9.0: not accepted*	XT >= 9.0: not accepted*
Signed package (9.0 or higher)	accepted	XT < 9.0: not accepted	accepted	XT < 9.0: not accepted
		XT >= 9.0: Accepted		XT >= 9.0: accepted

*By default, an unsigned software package is not accepted. You can force the system to accept an unsigned package by setting “Verify Signature” to No.

** XT7000 does not accept the package due to memory capacity.

© 2019 Avaya Inc. All rights reserved

How to Upgrade XT Series to 9.x Releases

Release 9.x improves security when upgrading. Since 9.0 version, XT Series software packages are signed by an Avaya Certificate Root Authority recognized by the XT Series. Only signed packages will be accepted by XT Series once upgraded to this version (see XT Software Update Verification Table).

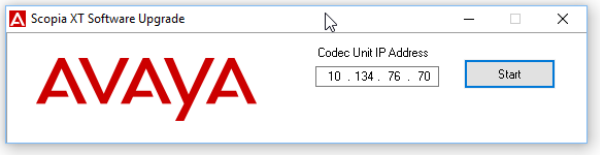
Software upgrade packages named XT5000_Vx_y_z.exe can be used only to upgrade Avaya XT5000/XT4300/XTE240 Series Codec Units.

Software upgrade packages named XT7000_Vx_y_z.exe can be used only to upgrade Avaya XT7000 Series Codec Units.

To upgrade the software of an Avaya XT Series Codec Unit:

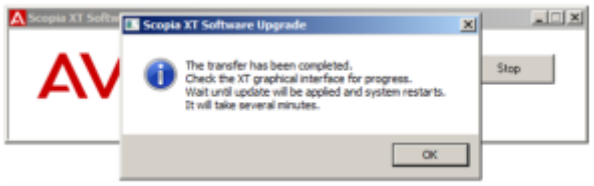
- Save the XTn000_vx.y.z.exe file containing the XT Series Software in your Windows PC
- Verify that the PC is connected to the network in wired mode (otherwise the upgrade process can be very slow when using a wireless connection) and that it can ping XT.
- Double click the version .exe file. Below application will be launched.
- Insert IP address of the XT to upgrade in the Codec Unit IP address field.
- Press “Start” button in the app.

Figure 28: **Software Upgrade Application**



- Do not turnoff or unplug XT, until it completes the upgrade.
- The application will signal that the software package transfer is completed. Wait until the XT applies the updates contained in the package and restarts, by checking the progress on XT’s graphical interface (monitor screen).
- This procedure is completed when you see the initial graphical menu displayed continuously for at least one minute after a restart.
- If the XT does not restart but it shows an indication to repeat the upgrade, press the “Start” button again.

Figure 29: **End Upgrade Message**



Caution

- Do not turn off the system until the upgrade procedure is completed.
- If the upgrade procedure is interrupted for any reason, do **not** restart the Codec Unit but repeat the procedure as suggested by the Codec User Interface.
- The system LED may blink repeatedly while upgrading.
- If you are upgrading from a 3.0/3.1 version of XT5000/XT4000, the upgrade procedure may reboot more than once while upgrading. A 30 to 40-second interval may occur between the reboots.
- If the GLAN interface is not reachable any more, put the .exe upgrade package into a formatted USB key and insert it into the upper USB socket.

Important

- Since version 9.2 is a Major Release for Avaya XT Series, a new license might be required for this upgrade if the endpoint is not under Maintenance Contract.

© 2019 Avaya Inc. All rights reserved

- The codec can in any case work in preview mode without a license for 30 days (Power ON time – countdown is suspended when the system is OFF).
- Before upgrading it's always suggested to back-up the previous system configuration from Diagnostics > Utilities > Configuration > Export.
- To upgrade the XT to a version 8.3.2 or higher using the USB key, a version 8.3.2 must be already installed on the XT. You cannot upgrade directly from 8.3.0.x to 8.3.2.x using the USB Key.
- To upgrade from an USB key, the version file must be named XT5000 Vx_y_z.exe or XT7000_Vx_y_z.exe. An optional _U suffix can also be present if the package is unsigned. Do not change version file name, otherwise the package will not be recognized.
- For any issue appearing when using this software package please contact Avaya Customer Support opening a Service Request at http://support.avaya.com and providing
- the system CS Package (Web > Diagnostics> Utilities >Customer Support Package: press Create and download the newly created package to your computer)
- the NetLog capture (if the problem can be easily reproduced vs. any external third-party IP device)
- the detailed description of the issue occurred (see also https://support.avaya.com/ext/index?page=content&id=FAQ105903)

Important

- If your Codec Unit was configured to use 97, 98 or 99 as remote-control codes, you will no longer be able to set these codes after upgrading to 9.x version. Please configure your Codec Unit and Remote Control to use a different code in the range [1...96]. (See Remote Control Shortcuts).

Downgrading from this Release

Downgrading to earlier releases could be unsupported by some Avaya XT Series products or in some conditions.

In particular:

In 9.x standard mode, you need to disable "Verify signature" to **downgrade from this release to an 8.3.X** or older release. Browse to:

[GUI] CONFIGURE >ADVANCED>UTILITIES>REMOTE ACCESS>DOWNLOAD
[WEB] ADMINISTRATOR SETTINGS>UTILITIES>REMOTE ACCESS>DOWNLOAD

- Verify Signature: No.

In 9.x recovery mode, you cannot downgrade to 8.3.x or use an unsigned package. The Verify Signature option does not apply to recovery mode. It is not possible to force an XT version 9.0 or higher to accept an unsigned package when in recovery mode. See Known Issues, "Software Upgrade & Downgrade" section and the table above.

- XTE240 cannot be downgraded to versions earlier than 3.1.1.
- Avaya Branded XT Endpoint s cannot be downgraded to versions earlier than 8.3.0.61.
- XT4300 cannot be downgraded to versions 8.3.0 or earlier.
- XT7000 cannot be downgraded to versions earlier than 8.3.2.2xx

Important

- If you reset a codec unit to factory defaults using a newer version and then downgrade to an earlier version, some new defaults could not be properly recognized by the earlier version. It is strongly suggested to execute again the reset to factory defaults after downgrading. See Known Issues, "Software Upgrade & Downgrade" section.

© 2019 Avaya Inc. All rights reserved

Integrating with Other Components

Avaya Equinox® Solution includes several new components, but XT Series supports also components of the previous Avaya Scopia® Solutions.

Table 4: **Solution Compatibility**

Current Solution Component Name	Previous Solution Component Name	Version
Avaya Equinox® Management	Scopia® Management	8.3*
Avaya Equinox® Media Server (Elite 7000 + AMS+ WCS)	--	8.5
Scopia® Elite 6000 MCU	Scopia® Elite 6000 MCU	8.3**
Scopia® Elite 6000 MCU	Scopia® Elite 5000 MCU	7.7
Avaya Scopia® Desktop Server	Scopia® Desktop Server	8.3***
Avaya Equinox® Streaming and Recording Server (AESR)	Scopia® Recording Server	8.3*
Scopia® Mobile (iOS/Android)	Scopia® Mobile (iOS/Android)	8.3****
Avaya Scopia® XT Series	Scopia® XT Series	8.3
Avaya Scopia® XT Desktop Server	Scopia® XT Desktop (SMB solution)	8.3*****
Avaya Scopia® XT Series	Scopia® XT Series	8.3
Scopia® XT1000	Scopia® XT1000	2.5
Scopia® VC240	Scopia® VC240	2.7.1
Scopia® TIP Gateway	Scopia® TIP Gateway	8.0
Scopia® Video Gateway for Microsoft Lync	Scopia® Video Gateway for Microsoft Lync	7.7
Scopia® Gateway	Scopia® Gateway	5.7.2
Scopia® Enhanced Communication Server (ECS)	Scopia® Enhanced Communication Server (ECS)	7.7
Avaya Equinox® H.323 Firewall Traversal	Scopia® Path Finder	8.3
Avaya Aura Presence Server	Avaya Aura Presence Server	7.0
Avaya IPO for Presence, One-X Portal for IPOffice	Avaya IPO for Presence, One-X Portal for IPOffice	9.1

* Conferencing Management 9.0 is required for Auto-Provisioning
Scopia® Management V8.3.3x is required for Mobile Link.
Scopia® Management V8.3.2x is required for XT7000 support.
Scopia® Management V8.3.x is required for Roster integration and Calendar.
** Scopia® Elite 6000 MCU V8.3.2x is required for Gallery Layout.
*** Scopia® Desktop V8.3.3x is required for Screen Link and Mobile Link.
**** Scopia® Mobile V8.3.3 is required for Mobile Link.
***** Scopia® XT Desktop 8.3.800 minimum is suggested.

Important

- It is always recommended to update the Avaya Equinox® Solution to the latest release (9.1.8).
- Solution wide features like Mobile Link or Auto-Provisioning require that the Avaya Equinox® Solution (as a whole) is up to date and all components support those features. Please refer to the release notes of the specific components for details.

© 2019 Avaya Inc. All rights reserved

Resolved Issues

Version 9.2.0.215 of the Avaya XT Series includes resolved issues from previous GA version 9.1.8.63 (part of Avaya Equinox Solution 9.1.8).

Table 5: **Resolved Issues**

Release	Case Number/ Ticket ID	Description of Issue
9.2.0.215		Solved an issue where recorded file was not saved properly on USB key if the host name contained a dot. Solved bug for which screen link was not sent as presentation if DVI input was disabled.
9.2.0.215	RVXT5000-2506	Does not display popup “Are you sure you want to disconnect” when the user disconnects the meeting after performing Meeting Option - > End Meeting -> Cancel
9.2.0.215	RVXT5000-2507	Shows black web Collab sharing after starting/stopping USB recording
9.2.0.215	RVXT5000-2486	Can’t open Menu Page after performing Meeting Option - > End Meeting -> Cancel
9.2.0.215	RVXT5000-2485	XT shouldn’t send space in box chat
9.2.0.215	RVXT5000-2495	XT4300 became Moderator but needs to insert PIN again
9.2.0.215	RVXT5000-2462	when DVI is disabled, present button is available with no effect
9.1.1.46	RVXT5000-2374	TCP/UDP Sockets available do not follow the Protocols and the system licensing

© 2019 Avaya Inc. All rights reserved

Known Issues

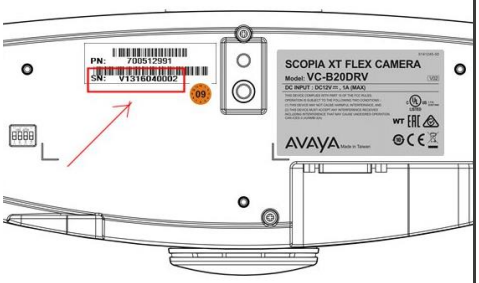
Avaya performs effective testing of each software version. Patch software may be available to fix known issues of this software version. Please contact Avaya's Customer Support Service for further information.

This section details the list of known issues for this version. Issues are common to Avaya XT Series.

Table 6: **List of known issues in this version**

Category	Case Number/ Ticket ID	Description of issue	Solution/Workaround
System Setup		Echo cancellation issue when audio out of HD2 is enabled (HD2 is connected to a track of the XT audio mixer) and HD2 audio output is heard in the room through loudspeakers or a monitor.	In Configure > Advanced > I/O Connections > Audio – Outputs > Tracks > Outputs from tracks: Set HD2 to Off.
		Echo cancellation issue when using HD2 as single monitor	Connect the single monitor to HD1. HD2 should be used only as additional monitor.
		Some HD monitors crop the output.	If the borders of the graphical menus are not fully visible, select Configure > Quick Setup from the Main menu. Select Next in the Quick Setup to adjust how the menu is displayed in the monitor. You can also resize the local and received presentation on the additional monitor from the web interface. Select Administrator Settings > I/O Connections > Monitor > Graphical Adjustments.
		Additional monitor/Cloned monitor may become black during the call	It is strongly suggested to use two monitors of the same Vendor/Brand/Model, with the same settings. In particular, do not mix 1080p/720p monitors. During a call, do not change monitor resolutions and do not connect/disconnect monitors
	QC#12897	Placing the camera on top of the system may cause the system to overheat and reset.	Place the camera near the system.
	QC#20476	SI #161693: [Executive] During the XT Control app installation (using Internet Explorer) appears a security warning about an 'unknown' publisher.	The warning appears because the XT Control application is not signed: continue with the installation since the content is not harmful for the PC.
Recovery Mode		In Recovery Mode, only lower slot can be used to plug an USB key for software upgrade	
	RVXT5000-1118	Sometimes the system displays black video when forced to start in recovery mode	Disconnect and reconnect XT power supply
	QC#11258 QC#25349	In Recovery Mode, you can only use HD1 monitor and Ethernet cable connected to GLAN1. A message 'Starting System…' appears for about 50 seconds at system start up.	
I/O Connections	XT4300	The camera does not turn on the standby led when the codec unit is in power off	
	Cascade cameras	Cannot change camera cascade driver mode or connect/disconnect/change cascaded camera order on the fly.	Changing camera driver mode from automatic to manual (or the reverse) or changing the camera cascade setup requires following a specific procedure: see below. In I/O Connections>Cameras>General, select Driver mode as Automatic if all the cascaded cameras are of the same model. Otherwise, select Manual and select manually the proper Driver for each camera input, in the order in which they will be cascaded. Disable all the intermediate inputs that will not be cascaded.

© 2019 Avaya Inc. All rights reserved

			Power off the system. Insert the three connectors of the special cable for the first camera to the sockets on the back of the first camera; pay attention to insert the 8-pin connector to the IN RS232C socket of the main camera. Connect a crossed VISCA cable from the OUT RS232C connector of the first camera to the IN RS232C connector of the second camera. Repeat with additional crossed VISCA cables if you have a third camera for XT7000 or more cameras when using an XT camera switch. Connect each additional camera to its power source and to XT HD or DVI input, or to the proper HD slot of the XT Camera Switch. Power on the system.
	Flex Camera for cascading	Flex camera can be cascaded only as last camera in the chain. Some older Flex camera models do not support cascading. Please check that the Flex camera (Model VC-B20DRV) serial number (available in a label on the bottom of the camera as aside) is higher than V13C04411 or is in the format V13xxyyzzzz (without any letter).	
		The USB camera is not detected	USB cameras must be plugged in the upper USB slot available in the XT rear panel.
	QC#19134	The Audio Input HD could not work properly if its field 'Echo canceller' was set to 'Yes'.	
	QC#16369	When restoring the system to factory default settings, the screen may appear black for a long time.	
	QC#16506	Cancelling the screen saver while it is activating can cause the camera to move.	
	QC#20697	SI #161991: [Executive] Sometimes the XT Control application could not realize the changes applied into the Windows OS Screen Resolution menu.	Close the XT Control application before any changes are going to be applied into the Windows OS menu Control Panel > Display > Screen Resolution.
		Analog/Digital DVI PC resolution 1280x960 could be treated as 720p or 1080p (encoding/detected format).	
	QC#20566	SI #161841: [Executive] XTE240 local PC video could flash when the PC user moves between different PC active applications and the XTE is configured to be the 'Extended'/Second Monitor of the PC.	This issue belongs to the Windows ('Aero') preview feature when selecting/moving between different/open PC application windows and could appear with any third party 'Extended'/Second PC Monitor.
	RVXT5000-615	Audio transmission/reception could be choppy when using USB headset connected to upper USB port.	Connect USB headset to lower USB port.
	QC#25198	Sometimes the system is turned on, but the camera image is not present. This is more frequent using the XT camera switch, for the first camera.	Unplug and then pug again the Camera power connector or use a Flex/Deluxe camera.
	QC#24231	Issue with an input of XT camera switch due to noise on this input in no video signal conditions.	Disable unused video inputs on the XT
	XT7000 Series	The information about the HD1/HD2 cameras or audio	Select the HD1 or HD2 input to see its diagnostic info.

© 2019 Avaya Inc. All rights reserved

		inputs are available only for the last selected HD1/HD2 input	
	RVXT5000-1202	[XT4300] When upgrading to this version, Flex camera presets assigned using 8.3.2.56 are lost and must be configured again.	To speed up PTZ to camera presets with XT Flex Camera a brand-new approach has been implemented since 8.3 FP2. This new implementation significantly improves customer experience. Please note that when updating to such new firmware version all previously set presets will be lost and must be re-configured.
		When connecting different model camera in daisy chain there could be some configuration trouble about video input format.	To avoid any trouble, configure right driver for any camera, then turn off the system, connect cables according to the configuration and then turn on the system.
	HD1 as presentation on XT7000	In local presentation mode, the XT7100 endpoint can capture 4K and 1600x1200 resolutions from its HD1 input (when configured to be used for presentation). When not in local presentation mode, 4K input is downscaled at 1080p, while 1600x1200 is downscaled to 800x600. Please note that the signal format connected to HD1 must be YCbCr 422 for any resolution higher than 1080p.	
IOT	SR 1-11610561268	IPO 9.1 and 10.0 require Third Party license for Avaya XT4300, XT7100 and XTE240 endpoints	Use a 3rd Party SIP License to register that XT Endpoint as a SIP device to an IP Office system
	IPOFFICE-109632	When registered to IPO 10.0, Avaya XT7100, XTE240 and XT4300 endpoints do not receive presentation	Configure IPO 10.0 with “MediaSecurity=None” to the extensions associated to those endpoints to enable presentation towards them.
		Cisco SX80 TC7.2.0 is not able to receive SIP TLS incoming calls if XT is configured with AES256.	Disable AES256 on XT or place outgoing call from Cisco to XT.
	QC#26789 JIRA-57114	The XT doesn't display the message to be in call hold when Flare iPad is put in hold	
	QC#2766	Using Polycom MGC50 (v 8.0.2.6) sometimes H.239 presentation does not function.	
	QC#2981	Polycom diagnostics incorrectly identifies XT Series systems.	
	QC#11493	Incident #16384-10505: Remote camera switch from HDX to XT5000 and reverse is not performed. Issue reported to Polycom.	
	QC#2964	Cisco C20 cannot control the XT5000 camera in H.323 calls.	
	QC#6665	Polycom MGC systems (v9.0): XT Series does not receive the video stream when it is connected to MGC with default settings (reference Pivotal #16384-7589).	For low bit rate calls (up to 256Kbits), set the maximum call rate of the XT5000 to 2M (the same max. rate as MGC) in the Administrator Settings > Call Preferences page. For 384Kbit- 2Mbit calls: In the MGC Advanced Properties page, deselect Auto Video Bit Rate.
	QC#5567	LifeSize Express LS_EX1_3.0.7 (2) produces corrupted audio in SIP calls with audio coding based on G.722.1 Annex C, 48 kHz. XT Series cannot establish incoming point-to-point SIP calls if H.264 coding is used.	Update LifeSize Express to latest version. As a temporary alternative, disable G.722.1 from the web interface by navigating to Administrator Settings > Calls > Preferences > Audio
	QC#16828	IOT issue with Tandberg/CISCO MXP1500. Reported to Tandberg/Cisco.	Disable H.264 High Profile on XT5000. Configure > Advanced > Preferences > Video
	QC#17464	The Tandberg/CISCO MXP1500 does not send video to the as soon as a call is started. Reported to Tandberg/Cisco.	Disable H.264 High Profile on XT5000.

© 2019 Avaya Inc. All rights reserved

	QC#16857	Avaya 10x0(LifeSize) v4.8 issue. Avaya Integration Rad #57 [XT/SIP]: An XT5000 registered with SIP cannot share content (via BFCP) with Avaya 1000-series endpoints.	Upgrade Avaya 1000-series endpoints to version 4.9 or higher.
	QC#22592 QC#22593	Cisco C20/SX20 SIP presentation interoperability issue when it placed a call towards an XT5000 MCU	Upgrade CISCO C20 to latest version.
	RVSM-5252	If XT is configured with Unicode name, the ECS rejects the H.323 call	Use a plain ASCII name for XT
	QC#26201	Tandberg MXP Series interoperability issue when placing SIP TLS calls.	Configure > Advanced > Protocols > SIP > TLS > Enabled =No
	RVELITE-6045	Presentation, sent in WCS mode from an XT, is sent black from MCU7000 to other XT (8.3.x or not in WCS mode)	
	Avaya B109	When Avaya B109 is connected to XT as USB audio device, only Volume+/- keys have an effect on the endpoint.	
In a Call	QC#9510	You cannot dial a recent incoming ISDN number from the Recent Calls list. (Incident #156601)	Dial the ISDN number manually.
	QC#9509	Before making an ISDN voice-only call, you need to first change the service mode to manual. (Incident #156599)	To make an ISDN Voice-Only call, perform the following procedure: From the web interface, select Administrator Settings > Calls > Preferences > ISDN and change the Service Mode to Manual. Insert a different Service Code for 64K calls. Add the same Service Code to the Gateway Service Prefixes List and specify the type as voice-only. Dial the ISDN/PSTN number and select 64K as the required Call Rate (Advanced call options).
In a Meeting	Equinox/Scopia Conference Features	Advanced conference features (meeting roster, Equinox recording, meeting management via UI, web collaboration, chat via SC and web) in an Equinox/Scopia Meeting are available only if XT is managed by the iView hosting the meeting or the solution is 9.x and the call is sip	Check that your XT can access the meeting roster (you should see Local – Your *XT Name* listed in XT UI, Participants tab). If this entry is not available, please check that your solution is 9.x and invite XT as sip participant in the meeting (you can invite XT by dialling xt@xtipaddress in your Equinox client, or sip: xtipaddress in Scopia desktop/mobile clients) or ask your Equinox Solution IT reference to add XT as managed endpoint in the Equinox Management server.
	MCURVELITE-3000	MCU6000 doesn't manage correctly the XT video privacy option (auto or hide video) when in a sip call	Configure > Advanced > System > Customization > Set Privacy Options = Image
		If you are using multiple monitors and there is no presentation, you cannot select the PIP layout.	
	RVXT5000-131	When connecting to a XT embedded meeting not as first terminal, the arrows in FECC page are not displayed after "Control Far" selecting.	The camera of the active speaker in the embedded MCU can be moved anyway
	QC#22715	XT cannot send or receive presentation if there is only one XT Desktop Client in the conference and that Client does not have a webcam.	
		Embedded MCU license cannot be enabled on systems with CPU version lower than 2.0	
Software Upgrade & Downgrade	Downgrading to unsigned versions	XT Series refuses the downgrade to a not signed version (8.3.X or	To downgrade XT to a version 8.3.X or lower, you must manually disable the “Verify Signature” option in the Download menu for normal mode. For

© 2019 Avaya Inc. All rights reserved

		lower) in regular mode or in recovery mode.	recovery mode it is not possible to downgrade to an unsigned version. You need to use a signed version for recovery mode and then disable the above option and downgrade the XT to previous version.
	QC#18364	If you are updating a system with PIC firmware rev 33 (implemented in versions up to v3.1.019), the system might keep rebooting, and the Codec Unit's LED or logo blinks 3 or 5 times as an error code.	Disconnect and reconnect the power jack connector.
	QC#26658 SI#169789	If you change parameters with a newer version, or load factory defaults with a newer version, some parameters could be not properly managed by earlier versions when downgrading. For instance, new gatekeeper configuration supporting DNS name is not available in previous version, so when downgrading you must configure gatekeeper again. The same for the TLS configuration and similar settings.	Reconfigure the parameter to the default value or restore the previous version backup configuration after downgrading, especially if you changed parameters with the new version or loaded default values/factory defaults with the new version and then downgraded the system.
	RVXT5000-804	Uploading a SW package into the XT codec through USB key is not possible - whenever the SW Package is not newer than the one already running - when trying to upgrade from v8.3.0.x (or older) to a v8.3.2 or higher; in this case it's firstly needed to upgrade to any v8.3.2.x using a Windows PC - when a password is set for the software upgrade - when the *.exe package copied into the USB Key has been renamed to a different name than XT5000_Vx_y_z.exe or XT7000_Vx_y_z.exe - when the *.exe package is not contained in the root directory of the USB key.	
Network	QC#18670 QC#19192 SI#8192-14380	Network negotiation issues occur on both ports when using specific network equipment, like CISCO C2960.	Always configure Autosensing in both the XT and the GLAN Port. Alternatively, you can limit the auto negotiation mode to 100/Full or lower.
	QC#16278	In few/random cases the XT does not get the IP Address in permanent way from DHCP.	Set the Speed/Duplex Mode to 'Automatic - Up to 100/Full' or lower.
	QC#18450	The system may not function properly after modifying the network settings.	Reboot the system to apply the update.
	QC#18671	To execute commands when using a telnet connection to port 60123, press 'Enter' twice after each command.	
	QC#26262	The XT GUI displays the un-correct network information when detaching and attaching the cable very quickly while using an old Aethra DHCP server.	
		Mac address conflict can be displayed when connecting the two GLAN ports to the same subnet	This configuration is not supported by the endpoint. Please connect each GLAN port to a different subnet.

© 2019 Avaya Inc. All rights reserved

		XT could not automatically determine your country or time zone correctly.	The Quick Setup wizard connects to some Internet public geo-localization services to determine the system location and time zone. The availability of such services is not guarantee. When using a proxy to connect to the Internet the results could be not accurate.
Telepresence		Telepresence triplet cannot work properly (if configured with dynamic IP addresses) when their addresses changes.	When setting up a Telepresence system, it is strongly recommended to use static IP addresses for the three endpoints.
		Telepresence higher than 8.3.X cannot be calibrated or configured using a previous calibration application.	Connect to the Telepresence Master using a Web Browser from your computer (Windows or Mac) and download the updated package for the Calibration application. The version of the application can be checked by pressing F1 for Windows (or CMD+1 for Mac) when the application is running.
Recording		Your recording can become corrupted if USB key is unplugged while a USB recording is in progress.	Stop the recording before unplugging the USB key.
		When recording the additional monitor shows the same video as the main monitor	
		Recording license cannot be enabled on systems with CPU version lower than 2.0	
		Save Recording status seems correct, but the file is not available in AESR.	Verify that your Owner name and the Organization ID are correct. Transfer status shown by XT is relative to FTP transfer.
	RVXT5000-2109	USB Recording in a telepresence system will record only master codec content and force a single monitor scenario on the master.	To properly record a telepresence session, use Network Recording
Snapshots & Web Video AT commands		When recording is active or the HD1 monitor is duplicated, it is not possible to select the single source to snapshots. The content of the whole screen will be captured.	
Sonic Pairing	Screen Link Mobile Link Scopia Control	Automatic acoustic pairing (or Sonic Paring): this option on a PC/Mac or mobile device will generate an ultrasonic sound (around 18 kHz, preceded by an audible short beep) that can be detected by a nearby XT (using 3-way pod or 1-way pod) for acoustic pairing. A list of all the detected XTs will be displayed, together with their status (represented by icons). Detected XTs automatically wake up from standby mode to display on their screen the title bar with their name and IP address. The automatic pairing (by sound) is possible only in quiet meeting rooms or offices where: • the laptop is on the same table as the XT microphone pod • the distance between the pod and the laptop is not more than 1.5 meters away from a 3-way pod, or 1 meter using the 1-way pod • there are no relevant obstacles between the laptop and the pod. • XTE240 built-in microphone embedded in XTE240	To use Sonic Pairing functionalities, please add a 3-way or 1-way microphone pod to your XTE or select the XT manually.

© 2019 Avaya Inc. All rights reserved

		camera cannot detect the pairing sound. • Avaya HC020, Avaya HC050 and most USB cameras cannot detect the pairing sound.	
Mobile Link	Scopia® Management FP2	When XT is registered to or managed by Scopia® Management FP2, it could connect to the wrong meeting if invited by Mobile Link.	Upgrade Scopia® Management to 8.3.3.xx
Screen Link	RVXT5000-1288	When Screen Link is used as **main** video during a call (by selecting DVI camera), Screen Link is stopped when receiving a presentation and the DVI input is used in place of the Screen Link	
		When Screen Link is used, audio is not transmitted from PC/Mac to XT	Screen Link is a replacement for the DVI cable. To share audio from PC/Mac to XT, you need to use a digital/analog audio physical connection.
	Screen Link and DVI	When a DVI content is displayed on XT or another Scopia® Desktop client or Equinox Client has an active Screen Link connection with the same XT, the Screen Link pairing will fail (the endpoint is listed with forbidden icon or manual pairing will fail with "Endpoint unavailable" message).	To activate Screen link from a different client, terminate presentation on XT by pressing Present or stop screen link from the client. Presentation priority is DVI/Screen Link. You need to unplug DVI to have XT show Screen Link content. Please note that if you plug in DVI input while Screen Link content is sent or shown, it will be automatically stopped. The physical connection is used instead of the screen link (physical DVI plug has precedence over screen link).
	Screen Link and HD1 and DVI on XT7000 with Presentation Content on HD1 enabled	When a DVI/HD1 content is displayed on XT or another Scopia® Desktop Client/Equinox Client has an active Screen Link connection with the same XT, the Screen Link pairing will fail (the endpoint is listed with forbidden icon or manual pairing will fail with "Endpoint unavailable" message).	To activate Screen link from a different client, terminate presentation on XT by pressing Present or stop screen link from the client. When Presentation Content is enabled on HD1, DVI Input is used for presentation only if no input is connected on HD1. Otherwise HD1 has the precedence for presentation. Presentation priority with “Presentation Content on HD1” enabled is HD1/DVI/Screen Link. You need to unplug both HD1 and DVI to have XT show Screen Link content. Please note that if you plug in DVI or HD1 input while Screen Link content is sent or shown, it will be automatically stopped. If you connect HD1 input while DVI content is sent or shown, it will be automatically stopped.
SNMP		SNMP supported version is SNMPv1 for Traps and SNMPv2c for reading info.	SNMP is disabled by default to enhance security
	RVXT5000-1243	SNMP default community names are easily guessable	Change default SNMP community names or disable SNMP
	RVXT5000-1244	SNMPv1 is not secure	SNMP is disabled by default to enhance security
Presence		Manual Presence Status is forced to "Busy" when in a SIP call when using IP Office as Presence and SIP Server.	
		Offline presence status in not correctly displayed by XT when using Aura Presence Server 7.1 (pre-release)	Select “Aura 7.1” in XT presence server type
	Avaya One-X Portal for IP Office.	It is not possible to subscribe to accounts used by One-X Portal clients.	As a workaround you can temporarily assign the same account to another XT, subscribe to it from your XT, and then move it again to the client.
	Avaya Aura Presence Server	Contacts are not notified of subscription requests. It is not possible to grant/revoke subscription request. XT endpoint must manually subscribe to other contacts to view their presence	

© 2019 Avaya Inc. All rights reserved

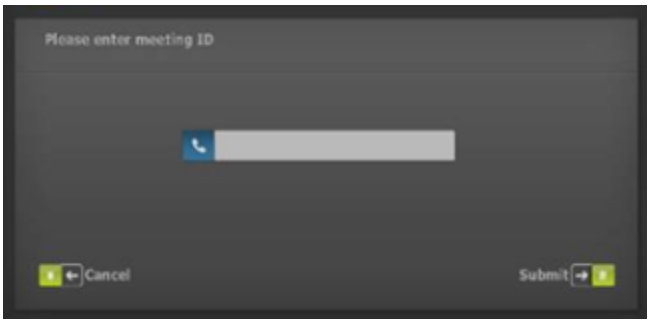
Remote Control		Remote Control Codes 97, 98, 99 cannot be used any longer to control the Codec Unit.	Only codes [1...96] can be used to control the codec. Codes 97, 98 and 99 are reserved to control the Deluxe Camera since release 8.3.6. Reprogram your codec and your remote control to use a different code.
Web Collaboration (WCS)		FPS when sending or receiving Web Collaboration on XT is low	Rx FPS depends on resolution and content of the remote sharing. TX FPS depends on resolution and content of local sharing, but it is further reduced if using an analog DVI input.
		WCS sharing is not active	Check that Calls>Preferences>Dual Video> Web Collaboration (WCS) is set to Yes Check that your XT is managed in the meeting (you should see Local – Your *XT Name*) listed in XT UI, Participants tab if the call is H323 or the Conferencing Management is 8.3.x. Check that your XT has a valid DNS configured, as it must resolve the WCS FQDN. Check that your XT can connect to the WCS server (WCS server info are available through XT's CS Package)
		When WCS Rx is active, there is no gallery layout	This is by design. Gallery layout preference is ignored when receiving WCS.
		When the received collaboration resolution is higher than 1920 width or 1080 height the presentation is cropped on the monitor.	You can pan/tilt the received presentation using the arrows when the presentation is displayed in a major window (full screen or first pap or pop window in any monitor). Change layout to pan the near camera in place of the presentation.
		Web collaboration cannot be enabled on systems with CPU version lower than 2.0	
		XT cannot send and receive presentation if the call is audio-only	
MSSv1		MSS cannot be enabled on systems with CPU version lower than 2.0	
		If Web Collaboration is disabled, no presentation is available in an MSS meeting	
		Only XT Sip participants or with 9.0 (or new Equinox clients supporting MSSv1) can join an MSSv1 meeting. H.323 participants or old XT or third-party endpoints will join as audio only.	
Cloud connection		XT cannot connect to Management through cloud in initial wizard	Check that the DNS address assigned by DHCP is valid. See Auto-provisioning FAQ
	Cloud Service Availability	XT Auto-Provisioning Service may be interrupted, including for maintenance, repairs, upgrades, or equipment or network failures. We may discontinue certain features and the support for certain XT devices at any time. Events beyond our control may affect our service, such as force majeure events.	
	RVSM-7511	When XT outside company premises is managed by Equinox Management, it cannot join an existing meeting which requires Path Finder access (H323 call).	Temporarily disable Equinox Management or place a SIP call to join the meeting. To temporarily disable Equinox Management, change Configure> Advanced>Remote Access>Equinox Management>Mode to Local; and Automatic IP address to No; write down the original local IP address to be restored later, if any, and set 0.0.0.0 as IP address.

© 2019 Avaya Inc. All rights reserved

Common Remote-Control Shortcuts

- To check the call status and diagnostics during a call, press the Stats button in the Call Control Panel. To view statistics for each participant in a meeting, press left/right arrows to select the previous and next participant.
- To access the layouts menu during a call, press and hold the 'layouts' key.
- Access the Call Control Panel by pressing 'ok/menu' on the Remote Control, or double click with the mouse. The Panel automatically disappears after a few seconds. To manually hide it, press the 'back/undo' key.
- Press and hold a single digit (0-9) on the Remote-Control Unit to recall an assigned position of the local or far PTZ camera.
- When entering the meeting ID for a videoconference hosted by an Avaya Equinox/Scopia MCU, use the * digit to delete an incorrect digit (as indicated on the MCU prompt).

Figure 30: **Use * Key to Cancel a Meeting ID**



- To restore the Codec Unit to automatic monitor configuration, press the 'layouts' key, and then press 0 on the Remote-Control Unit. Use this shortcut only when no call is active.
- To change the refresh frequency used for the monitors, press the 'layouts' key on the Remote-Control Unit, then press 5 to set it to 50 Hz or 6 to set it to 60 Hz. Use this shortcut only when no call is active
- Press and hold the 'call' key to toggle Do Not Disturb

© 2019 Avaya Inc. All rights reserved

Simplified Remote Control Shortcuts

Figure 31: **Simplified Remote Control**



- To connect the Simplified Remote-Control Unit to a specific XT endpoint (necessary if there are multiple Codec Units in the same room):
  - In the web interface, navigate to Basic Settings > General > Remote Control Code.
  - Enter two-digit code for the Remote-Control Code (from 01 to **96 to control the Codec Unit**). The default code is 01. Press the '*' and '#' keys simultaneously on the Remote-Control Unit until the red led blinks twice. Enter the two-digit code inserted in the web interface.
  - The code programmed in the Remote-Control Unit must match the setting configured in the GUI Configure > General > Remote Control Code or in the Web > Basic Settings > General > Remote Control Code.
  - Codes 97, 98, 99 are reserved to control an Avaya XT Series XT Deluxe Camera and cannot be used to control the Codec Unit.
- The 'layouts' key controls the visibility of the secondary video window (Pip/PaP/PoP/Full screen) and corresponds to the 'pip' key on the Advanced Remote Control (described in next section).
- The hold of the 'layouts' key controls the content of the visible video windows. **This can be used also outside a call.**
- The **'del'** key corresponds to the **'C'** key on the Advanced Remote Control (described in next section).
- To erase the input from a field, press and hold the 'del' key.
- To quickly move the current camera when you are in the Main menu, press the 'del' or the 'back/undo' key on the Remote Control. Press 'del' again to access the Main menu.
- During a call the title bar and the call page disappear after a few seconds. The header is automatically reactivated when mute/privacy/DND is activated. You can hide or access the title bar and call menu by pressing the 'del' key on the Remote-Control Unit. From the Main menu, you can also press the 'back/undo' key on the Remote Control.
- You can press the '1/a/A' key to quickly toggle the input editing mode of the Remote Control between numeric-only/lowercase letters and digits/uppercase letters and digits.
- Press and hold the 'mute' key to mimic the function of the 'privacy' key on the Advanced Remote Control.
- [XTE240] In the Layouts page, press the 'near/far' key to switch between your computer and the remote computer.
- When connected to a Solution Meeting, press the 'near/far' and then the 'layouts' key to cycle among the supported Meeting layouts
- Press and hold the 'near/far' key to mimic the function of the 'inputs' key on the Advanced Remote Control.

⚠ Caution

- Do not disconnect or power off the system to switch off.
- Press and hold the 'on/off' key on the Remote Control to switch off the system.

© 2019 Avaya Inc. All rights reserved

Advanced Remote-Control Shortcuts

Figure 32: **Advanced Remote Control**



- The 'pip' key on the Advanced Remote Control controls the number and the layout of visible windows on the screen. For instance, you can choose to see the remote video in a big window and your local video in a smaller window on the upper left corner. This corresponds to the 'layouts' key on the Simplified Remote Control.
- The 'layouts' key on the Remote Control controls the content of the visible windows on the screen. For instance, you can decide to see the remote video or the local video on the bigger window. This corresponds to holding the 'layouts' key on the Simplified Remote Control.
- The **'C'** key corresponds to the **'del'** key on the Simplified Remote Control (described in next section).
- Press and hold the 'C' key to completely erase field content in the GUI.
- To quickly move the current camera when you are in the Main menu, press the 'C' or 'back' key on the remote control. Press 'C' again to access the Main menu.
- During a call the title bar and the call page disappear after a few seconds. The header is automatically reactivated when mute/privacy/DND is activated. You can hide or access the title bar and call menu by pressing the 'C' key on the Remote-Control Unit. From the Main menu, you can also press the 'back' key on the Remote Control.
- To customize the use of the Advanced Remote-Control Unit, press together the 'red' and 'green' keys on the Remote-Control Unit, then press the relevant digit keys to type a two-digit code (from 01 to **96 to control the Codec Unit**). The default code is 01. The code programmed in the Remote-Control Unit must match the setting configured in the GUI Configure > General > Remote Control Code or in the Web > Basic Settings > General > Remote Control Code. Codes 97, 98, 99 are reserved to control an Avaya XT Series Deluxe Camera and cannot be used to control the Codec Unit.
- To switch between controlling the local and remote camera, press 'far' or 'near'. When the 'far' icon appears, all input selection, presets, camera movements and zoom actions are directed to the far camera. In a meeting, the actions are directed to the current far active speaker.
- You can press the 'inputs' key to quickly zap between the available local or far cameras
- To check the call status and diagnostics during a call, press the 'help' key on the Remote Control.
- Press and hold the 'privacy' key to toggle Do Not Disturb. Press and hold the 'mute' key to toggle 'privacy'
- When connected to a Solution Meeting, press 'far' and then 'layouts' key to cycle among the supported Meeting layouts
- You can press the 'ok/menu' key to quickly toggle the input editing mode of the Remote Control between numeric-only/lowercase letters and digits/uppercase letters and digits**.**
- In the Call page, press and hold 'ok/menu' to toggle the input editing mode, and press 'ok/menu' to place a call.
- In XTE240, used as personal or shared endpoint, you can press and hold 'inputs' to toggle between your pc and the remote content, when receiving a presentation.
- To access and save camera positions, press 'presets memo' or 'presets select'.
- You can store and recall up to 122 presets. Presets selection is supported as follows:
  - Presets from 00 to 99: pressing 'memo'/'select' then the two digits of the preset number
  - Presets from 100 to 109: pressing 'memo'/'select' then * and 0/9
  - Presets from 110 to 119: pressing 'memo'/'select' then # and 0/9
  - Preset 120 pressing: 'memo'/'select' then # and *
  - Preset 121 pressing: 'memo'/'select' then # and #
  - The two digits must be pressed quickly in sequence

© 2019 Avaya Inc. All rights reserved

⚠ Caution

- Do not unplug or power off the system to switch off.
- Press and hold the 'on/off/monitor' key on the Remote Control (top-right key) to switch off the system.

XT PC Control Keyboard Shortcuts

When using XT PC Control to interact with your XTE using your computer's keyboard and mouse, some keyboard keys can be used to emulate remote control keys.

Table 7: **Keyboard Shortcuts for Remote Control Keys**

Keyboard	Simplified Remote Control	Advanced Remote Control
Esc	Back	Back
F1	--	Help
F2, F6	Layouts	Pip
F3	Far/Near	--
F4	--	Layouts
F5	Contacts	Contacts
Pause	Hold Mute (Video Privacy)	Video Privacy
Backspace	Del	C
Enter/Return	OK	OK
Insert	Call	Call
Delete	Disconnect	Disconnect
Home	Hold Ok (Menu)	Hold Ok (Menu)
End	Hold Near/Far (Inputs)	Inputs
Page Up	Zoom+	Zoom+
Page Down	Zoom -	Zoom -
Arrow Up	Arrow Up	Arrow Up
Arrow Down	Arrow Down	Arrow Down
Arrow Left	Arrow Left	Arrow Left
Arrow Right	Arrow Right	Arrow Right
Mute (Ext. Keyboard)	Mute	Mute
Volume+ (Ext. Keyboard)	Volume+	Volume+
Volume- (Ext. Keyboard)	Volume-	Volume-

© 2019 Avaya Inc. All rights reserved

Avaya Policy for GDPR

GDPR gives control to citizens and residents over their personal data. Avaya customers can leverage Avaya technology to help achieve compliance through a range of features to help them comply with GDPR.

GDPR clearly defines the use of a person's personal data as relating to an identified or identifiable natural person. The new law controls any information that can be used to identify somebody via direct or linked reference, including email addresses, phone numbers, payroll data, usage statistics, purchasing history, social security numbers, etc.

Avaya solutions are engineered to help their customers protect an individual's data, with enhanced security and many features that may be leveraged by an organization to comply with GDPR. These include scripts and prompting menus that could be used across multiple digital channels – including web chat – to help gain informed consent from an individual prior to collecting their data.

Avaya's products will document what data they collect; and the mechanisms to be used to handle it.

Avaya products include mechanisms that assist in restricting access to data as well as tools and processes that enable customers to access and manipulate collected data. These tools and processes are accessed through the product and via services available from the Avaya professional services.

For GDPR documentation specific for this release, see

https://downloads.avaya.com/css/P8/documents/101058646

© 2019 Avaya Inc. All rights reserved

Additional References

- To access the License Portal, login into http://plds.avaya.com and insert the provided XT Endpoint LAC details and the system Host ID (MACAddress) (into HOST ID or License Host field).
- For datasheets and new software releases of Avaya XT Series, see http://www.avaya.com/usa/product/avaya-scopia-xt-video-conferencing and http://plds.avaya.com
- For Avaya XT Series Port Matrix, see https://support.avaya.com and search for Avaya Scopia XT Series Port Matrix for latest document, or browse to https://support.avaya.com/helpcenter/getGenericDetails?detailId=C201082074362003
- For Avaya XT Series Technical Documentation and Download, see http://support.avaya.com. Enter XT Video Conferencing or your specific XT product as the product name, to download Administration & system programming documents, User Guides, Release Notes and latest available firmware.
- For GDPR addendum see http://support.avaya.com, search for GDPR XT Series or see https://downloads.avaya.com/css/P8/documents/101058646
- For information about approved Third Party accessories (common with 8.3.x), see https://downloads.avaya.com/css/P8/documents/101030847
- For more information about Avaya XT Series Integration with AMX, Crestron and Extron Controllers and XT Commands Interface API (AT Commands), see https://support.avaya.com/downloads/download-details.action?contentId=C20143693548450_0&productId=P1430
- To search the Avaya XT Series Knowledge Base, see http://support.avaya.com or directly at http://kb.avaya.com
- For more information about integrating XT Endpoints in with Avaya Aura see also https://downloads.avaya.com/css/P8/documents/100180521
- For more information about the complete set of products offered in the Avaya Equinox Solution, see http://www.avaya.com
- For support on Avaya products and to get latest available references for the above documents, see http://support.avaya.com

© 2019 Avaya Inc. All rights reserved

Copyright, Licensing and Credits

- Third Party Open Source License Copyright and Credits info and Commercial License Agreement for Avaya XT Series Products are available at http://support.avaya.com/Copyright
- Avaya XT Series devices include AAC-ELD technologies licensed by Fraunhofer IIS; see http://www.iis.fraunhofer.de/amm



