



Avaya Solution & Interoperability Test Lab

Configuring a Property Management System Data Link on Avaya Communication Manager – Issue 1.0

Abstract

These Application Notes describe the steps required to configure a Property Management System (PMS) data link between an Avaya S8300 Media Server controlling a G700 Media Gateway and a PMS through a terminal server. The PMS data link provides a property management system with the ability to provide hotel/motel management features with communications related functions that are coordinated with Avaya Communication Manager.

1. Introduction

These Application Notes describe the steps needed to replicate the configuration of a PMS data link between Avaya Communication Manager running on an S8300 Media Server with G700 Media Gateway and a PMS through a terminal server, as shown in **Figure 1**. The PMS data link provides a property management system with the ability to provide front office and back office hotel/motel management features with communications related functions that are coordinated with Avaya Communication Manager. The configuration described in these Application Notes uses an Avaya internally developed PMS lab simulator program rather than a third party PMS application. The information provided in this document is also applicable for setting up a PMS data link to a third-party application.

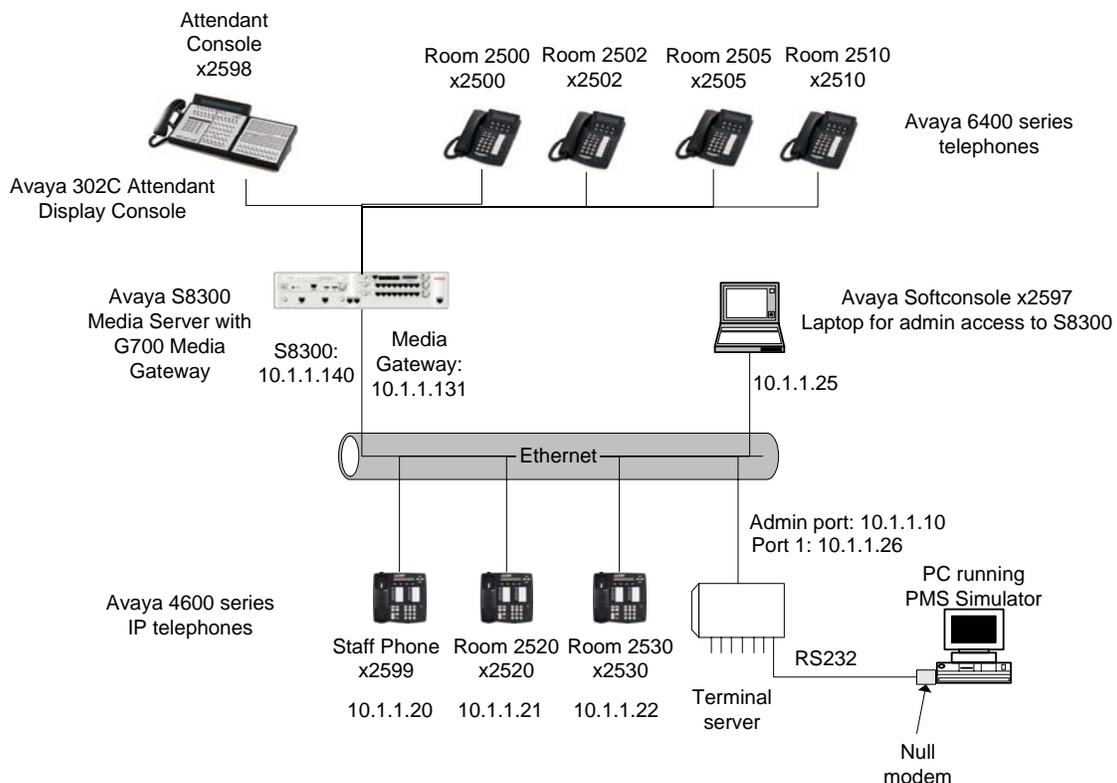


Figure 1: Tested Configuration

Voice messaging and/or call accounting data links to the property management systems are beyond the scope of these Application Notes. Please refer to the GuestWorks® and DEFINITY® Systems Technician Handbook for Hospitality Installations document for information relating to these topics.

2. Equipment and Software Validated

The following equipment and software were used for the configuration:

Equipment	Software
Avaya S8300 Media Server with G700 Media Gateway	Communication Manager 2.1.1
Avaya 4624 IP Telephone	1.82
Avaya 6408D Digital Telephone	-
Avaya 302C Attendant Display Console	-
Avaya Softconsole	1.5
Avaya lab PMS simulator program	3.3
Moxa Async CN2516 Terminal Server	2.26
Laptop for use with Avaya Softconsole and for admin access to the Avaya S8300/G700.	Windows 2000 Professional with Service Pack 4
PC for use with PMS Simulator	Windows 2000 Professional with Service Pack 4

3. Configure Avaya Communication Manager

This section provides instructions for setting up the PMS data link on Avaya Communication Manager assuming it is configured with the appropriate licenses as well. For detailed instructions on how to set up Avaya Communication Manager for Hospitality, please refer to the Avaya GuestWorks® and DEFINITY® Systems Technician Handbook for Hospitality Installations.

Step	Description
1.	<p>From the System Access Terminal (SAT), log in with the appropriate privileges. Verify the <i>Offer Category</i> is B in the display system-parameters offer-options form. If it is not, contact the appropriate support contacts in order to get the necessary options set on site.</p> <pre> display system-parameters offer-options OFFER OPTIONS Offer Category: B Activate Offer? y </pre>

Step	Description
2.	<p>Verify <i>Maximum Concurrent Registered IP eCons</i> is set to a value greater than 0 and verify Maximum G700/G350 VAL Sources is set to a value greater than 0 in page 2 of the display system-parameters customer-options form. These parameters are not required for PMS functionality but to enable Avaya Softconsole and gateway announcements respectively.</p> <div data-bbox="349 436 1421 924" style="border: 1px solid black; padding: 10px;"> <pre> display system-parameters customer-options Page 2 of 10 OPTIONAL FEATURES IP PORT CAPACITIES USED Maximum Administered H.323 Trunks: 100 5 Maximum Concurrently Registered IP Stations: 100 0 Maximum Administered Remote Office Trunks: 0 0 Maximum Concurrently Registered Remote Office Stations: 0 0 Maximum Concurrently Registered IP eCons: 1 1 Maximum Administered SIP Trunks: 100 0 Maximum Number of DS1 Boards with Echo Cancellation: 0 0 Maximum TN2501 VAL Boards: 0 0 Maximum G700/G350 VAL Sources: 1 1 (NOTE: You must logoff & login to effect the permission changes.) </pre> </div>
3.	<p>Verify <i>Hospitality (Basic)?</i> is set to y, <i>Hospitality (G3V3 Enhancements)?</i> is set to y, and <i>IP Attendant Consoles?</i> is set to y in page 4 of the display system-parameters customer-options form.</p> <div data-bbox="349 1134 1421 1701" style="border: 1px solid black; padding: 10px;"> <pre> display system-parameters customer-options Page 4 of 10 OPTIONAL FEATURES Emergency Access to Attendant? y IP Stations? y Enable 'dadmin' Login? y Internet Protocol (IP) PNC? n Enhanced Conferencing? n ISDN Feature Plus? n Enhanced EC500? n ISDN Network Call Redirection? n Enterprise Wide Licensing? n ISDN-BRI Trunks? n Extended Cvg/Fwd Admin? n ISDN-PRI? y External Device Alarm Admin? n Local Spare Processor? n Five Port Networks Max Per MCC? n Malicious Call Trace? n Flexible Billing? n Media Encryption Over IP? n Forced Entry of Account Codes? n Mode Code for Centralized Voice Mail? n Global Call Classification? n Hospitality (Basic)? y Multifrequency Signaling? y Hospitality (G3V3 Enhancements)? y Multimedia Appl. Server Interface (MASI)? n IP Trunks? y Multimedia Call Handling (Basic)? n Multimedia Call Handling (Enhanced)? n IP Attendant Consoles? y (NOTE: You must logoff & login to effect the permission changes.) </pre> </div>

Step	Description
4.	<p>Verify <i>IP_eCons</i> is set to a value greater than 0 in page 9 of the display system-parameters customer-options form. This parameter is not required for PMS functionality but to enable Avaya Softconsole.</p> <div data-bbox="350 380 1419 940" style="border: 1px solid black; padding: 10px;"> <pre> display system-parameters customer-options MAXIMUM IP REGISTRATIONS BY PRODUCT ID Page 9 of 10 Product ID Rel. Limit Used IP_API_A : 0 0 IP_API_B : 0 0 IP_API_C : 0 0 IP_Agent : 1 0 IP_Phone : 100 0 IP_ROMax : 1 0 IP_Soft : 2 0 IP_eCons : 1 0 : 0 0 : 0 0 : 0 0 : 0 0 : 0 0 : 0 0 : 0 0 (NOTE: You must logoff & login to effect the permission changes.) </pre> </div>
Configure the PMS data link	
5.	<p>Add the IP address assigned to the terminal server port connected to the PMS Simulator PC. Set <i>terminalserver</i> to 10.1.1.26 in the change node-names ip form. Make a note of the IP address used for the terminal server port, as this information will be required during the terminal server port setup.</p> <div data-bbox="350 1178 1419 1430" style="border: 1px solid black; padding: 10px;"> <pre> change node-names ip Page 1 of 1 Name IP Address IP NODE NAMES 0 .0 .0 .0 Name IP Address default 10 .1 .1 .10 . . . loc1clan 10 .1 .1 .140 . . . procr 10 .1 .1 .26 . . . terminalserver 10 .1 .1 .26 . . . </pre> </div>

Step	Description
6.	<p>Add the PMS service using the change ip-services form. Set <i>Service Type</i> to PMS, <i>Local Node</i> to procr, <i>Remote Node</i> to terminalserver and <i>Remote Port</i> to 5103, the port value recommended for PMS. Make a note of the Remote Port number used, as this information will be required during the terminal server port setup.</p> <div data-bbox="349 420 1417 688" style="border: 1px solid black; padding: 5px;"> <pre> change ip-services Page 1 of 2 Service Enabled Local IP SERVICES Local Remote Remote Type Node Port Node Port Node Port PMS procr 0 terminalserver 5103 </pre> </div>
7.	<p>Set <i>Message Waiting Configuration</i> to act-pms, <i>Controlled Restrictions Configuration</i> to act-pms, <i>Housekeeper Information Configuration</i> to act-pms, <i>PMS Endpoint</i> to PMS, <i>PMS Protocol Mode</i> to transparent, <i>Seconds before PMS Link Idle Timeout</i> to 20, <i>Milliseconds before PMS Link Acknowledgement Timeout</i> to 200, and <i>PMS Link Maximum Retransmission Requests</i> to 3 in page 1 of the change system-parameters hospitality form. Make a note of the values used for the <i>PMS Protocol Mode</i>, <i>Seconds before PMS Link Idle Timeout</i>, <i>Milliseconds before PMS Link Acknowledgement Timeout</i>, and <i>PMS Link Maximum Retransmission Requests</i> fields, as the values will be required during the PMS Simulator configuration.</p> <div data-bbox="349 1075 1417 1633" style="border: 1px solid black; padding: 5px;"> <pre> change system-parameters hospitality Page 1 of 3 HOSPITALITY Message Waiting Configuration: act-pms Controlled Restrictions Configuration: act-pms Housekeeper Information Configuration: act-pms Number of Housekeeper ID Digits: 0 PMS Log Endpoint: Journal/Schedule Endpoint: Client Room Coverage Path Configuration: act-nopms Default Coverage Path for Client Rooms: Forward PMS Messages to Intuity Lodging? n PMS LINK PARAMETERS PMS Endpoint: PMS PMS Protocol Mode: transparent ASCII mode? n Seconds before PMS Link Idle Timeout: 20 Milliseconds before PMS Link Acknowledgement Timeout: 200 PMS Link Maximum Retransmissions: 3 PMS Link Maximum Retransmission Requests: 3 Take Down Link for Lost Messages? Y </pre> </div>

Step	Description
	<p>The remaining configuration screen shots, while not required for setting up the PMS data link, are included to document related aspects of the tested configuration.</p>
8.	<pre> change dialplan analysis DIAL PLAN ANALYSIS TABLE Page 1 of 12 Percent Full: 3 Dialed Total Call Dialed Total Call Dialed Total Call String Length Type String Length Type String Length Type 1 3 dac 2 4 ext 6 4 ext 8 1 fac 9 1 fac *2 2 fac *3 2 fac *40 3 fac *41 3 fac *42 3 fac *50 3 fac *51 3 fac *52 3 fac *6 2 fac *7 2 fac </pre>
9.	<pre> change feature-access-codes FEATURE ACCESS CODE (FAC) Page 1 of 5 Abbreviated Dialing List1 Access Code: Abbreviated Dialing List2 Access Code: Abbreviated Dialing List3 Access Code: Abbreviated Dial - Prgm Group List Access Code: Announcement Access Code: *2 Answer Back Access Code: Attendant Access Code: Auto Alternate Routing (AAR) Access Code: 8 Auto Route Selection (ARS) - Access Code 1: 9 Access Code 2: Automatic Callback Activation: Deactivation: Call Forwarding Activation Busy/DA: All: Deactivation: Call Park Access Code: Call Pickup Access Code: CAS Remote Hold/Answer Hold-Unhold Access Code: CDR Account Code Access Code: Change COR Access Code: Change Coverage Access Code: Contact Closure Open Code: Close Code: Contact Closure Pulse Code: </pre>

Step	Description																																																																																																																																																																																																																																																																																
10.	<p>change feature-access-codes Page 5 of 5</p> <p style="text-align: center;">FEATURE ACCESS CODE (FAC) Hospitality Features</p> <p style="text-align: center;">Automatic Wakeup Call Access Code: *3</p> <p>Housekeeping Status (Client Room) Access Code: *40</p> <p>Housekeeping Status (Client Room) Access Code: *41</p> <p>Housekeeping Status (Client Room) Access Code: *42</p> <p>Housekeeping Status (Client Room) Access Code:</p> <p>Housekeeping Status (Client Room) Access Code:</p> <p>Housekeeping Status (Client Room) Access Code:</p> <p style="text-align: center;">Housekeeping Status (Station) Access Code: *50</p> <p style="text-align: center;">Housekeeping Status (Station) Access Code: *51</p> <p style="text-align: center;">Housekeeping Status (Station) Access Code: *52</p> <p>Housekeeping Status (Station) Access Code:</p> <p style="text-align: center;">Verify Wakeup Announcement Access Code: *6</p> <p style="text-align: center;">Voice Do Not Disturb Access Code: *7</p>																																																																																																																																																																																																																																																																																
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Step	Description
15.	<pre> add attendant 1 ATTENDANT CONSOLE 1 Page 1 of 4 Type: console Name: Attendant Extension: 2598 Group: 1 Auto Answer: none Console Type: principal TN: 1 Data Module? n Port: 001V202 COR: 2 Disp Client Redir? y COS: 0 Display Language: english H.320 Conversion? n DIRECT TRUNK GROUP SELECT BUTTON ASSIGNMENTS (Trunk Access Codes) Local Remote Local Remote Local Remote 1: 5: 9: 2: 6: 10: 3: 7: 11: 4: 8: 12: HUNDREDS SELECT BUTTON ASSIGNMENTS 1: 5: 9: 13: 17: 2: 6: 10: 14: 18: 3: 7: 11: 15: 19: 4: 8: 12: 16: 20: </pre>
16.	<pre> add attendant 1 ATTENDANT CONSOLE Page 3 of 4 FEATURE BUTTON ASSIGNMENTS 1: split 13: auto-wkup 2: 14: 3: mwn-act 15: 4: mwn-deact 16: ext-dn-dst 5: 17: crss-alert 6: hold 18: 7: check-in 19: forced-rel 8: check-out 20: pms-alarm 9: occ-rooms 21: 10: maid-stat 22: 11: directory 23: night-serv 12: trk-id 24: pos-busy </pre>

Step	Description
17.	<pre> add attendant 2 ATTENDANT CONSOLE 2 Page 1 of 4 Type: 302 Name: Front Desk Extension: 2597 Group: 1 Auto Answer: none Console Type: day/night TN: 1 Data Module? n Port: ip COR: 2 Disp Client Redir? n Security Code: COS: 1 Display Language: english H.320 Conversion? n DIRECT TRUNK GROUP SELECT BUTTON ASSIGNMENTS (Trunk Access Codes) Local Remote Local Remote Local Remote 1: 5: 9: 2: 6: 10: 3: 7: 11: 4: 8: 12: HUNDREDS SELECT BUTTON ASSIGNMENTS 1: 25 5: 29 9: 13: 17: 2: 26 6: 10: 14: 18: 3: 27 7: 11: 15: 19: 4: 28 8: 12: 16: 20: </pre>
18.	<pre> add attendant 2 ATTENDANT CONSOLE Page 3 of 4 FEATURE BUTTON ASSIGNMENTS 1: split 13: auto-wkup 2: 14: 3: mwn-act 15: 4: mwn-deact 16: ext-dn-dst 5: 17: crss-alert 6: hold 18: 7: check-in 19: forced-rel 8: check-out 20: pms-alarm 9: occ-rooms 21: 10: maid-stat 22: 11: directory 23: night-serv 12: trk-id 24: pos-busy </pre>

Step	Description
19.	<pre> change system-parameters features Page 2 of 14 FEATURE-RELATED SYSTEM PARAMETERS LEAVE WORD CALLING PARAMETERS Maximum Number of Messages Per Station: 10 Maximum Number of External Calls Logged Per Station: 0 Message Waiting Indication for External Calls? n Stations with System-wide Retrieval Permission (enter extension) 1: 2598 3: 5: 7: 9: 2: 2597 4: 6: 8: 10: TTI/PSA PARAMETERS MOVED TO PAGE 3 Prohibit Bridging Onto Calls With Data Privacy? n Enhanced Abbreviated Dial Length (3 or 4): 3 Record All Submission Failures in History Log? y Record PMS/AD Transactions in History Log? n Record IP Registrations in History Log? n </pre>
20.	<pre> add station 2500 Page 1 of 5 STATION Extension: 2500 Lock Messages? n BCC: 0 Type: 6416D+ Security Code: TN: 1 Port: 001V203 Coverage Path 1: COR: 1 Name: Coverage Path 2: COS: 1 Hunt-to Station: STATION OPTIONS Loss Group: 2 Personalized Ringing Pattern: 1 Data Option: none Message Lamp Ext: 2500 Speakerphone: 2-way Mute Button Enabled? y Display Language: english Expansion Module? n Media Complex Ext: IP SoftPhone? n </pre>
21.	<pre> add station 2520 Page 1 of 5 STATION Extension: 2520 Lock Messages? n BCC: 0 Type: 4624 Security Code: TN: 1 Port: IP Coverage Path 1: COR: 1 Name: Coverage Path 2: COS: 1 Hunt-to Station: STATION OPTIONS Loss Group: 19 Personalized Ringing Pattern: 1 Message Lamp Ext: 2520 Speakerphone: 2-way Mute Button Enabled? y Display Language: english Expansion Module? n Survivable GK Node Name: Media Complex Ext: IP SoftPhone? n </pre>

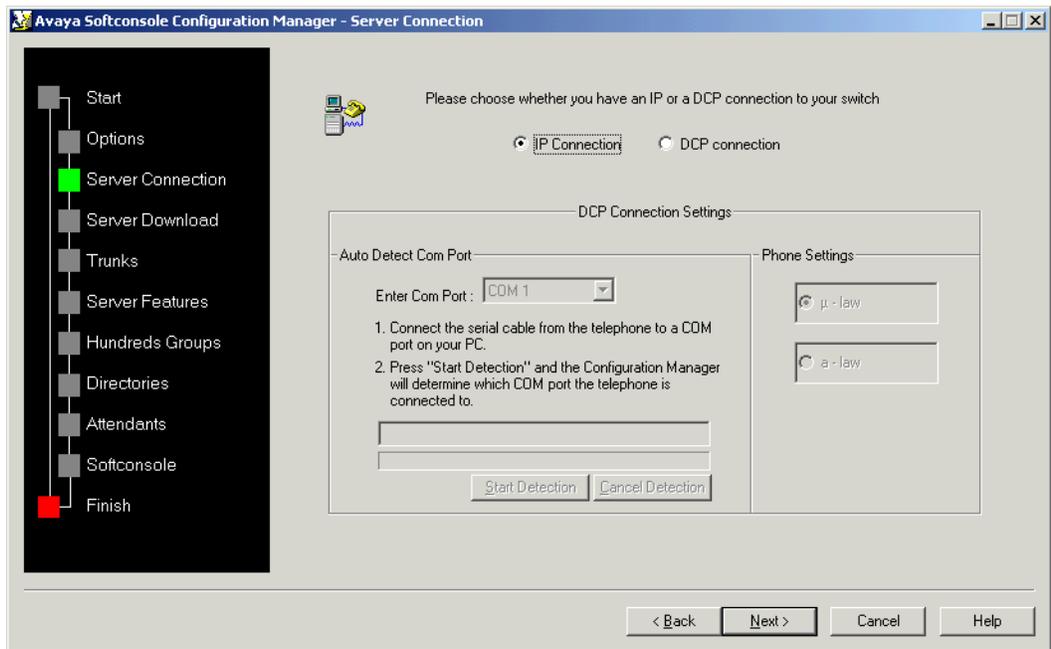
Step	Description
22.	Repeat step 20 for guest room stations 2502, 2505, and 2510 and repeat step 21 for guest room station 2530.
23.	<pre> add station 2599 Page 1 of 5 STATION Extension: 2599 Lock Messages? n BCC: 0 Type: 4624 Security Code: TN: 1 Port: IP Coverage Path 1: COR: 1 Name: STAFF Coverage Path 2: COS: 2 Hunt-to Station: STATION OPTIONS Loss Group: 19 Personalized Ringing Pattern: 1 Message Lamp Ext: 2599 Speakerphone: 2-way Mute Button Enabled? y Display Language: english Expansion Module? n Survivable GK Node Name: Media Complex Ext: IP SoftPhone? n </pre>
24.	<pre> change media-gateway 1 Page 1 of 1 MEDIA GATEWAY Number: 1 IP Address: 10 .1 .1 .131 Type: g700 FW Version/HW Vintage: 22 .16 .0 /0 Name: G700GW MAC Address: 00:04:0d:02:08:75 Serial No: 02DR06751838 Encrypt Link? n Network Region: 1 Location: 1 Registered? y Controller IP Address: 10 .1 .1 .140 Site Data: Slot Module Type Name V1: S8300 ICC MM V2: MM712 DCP MM V3: MM710 DS1 MM V4: MM711 ANA MM V8: V9: gateway-announcements ANN VMM Announcement board must also be enabled; use 'enable announcement-board' </pre>
25.	Enable the announcement board by typing enable announcement-board 1v9 from the SAT.

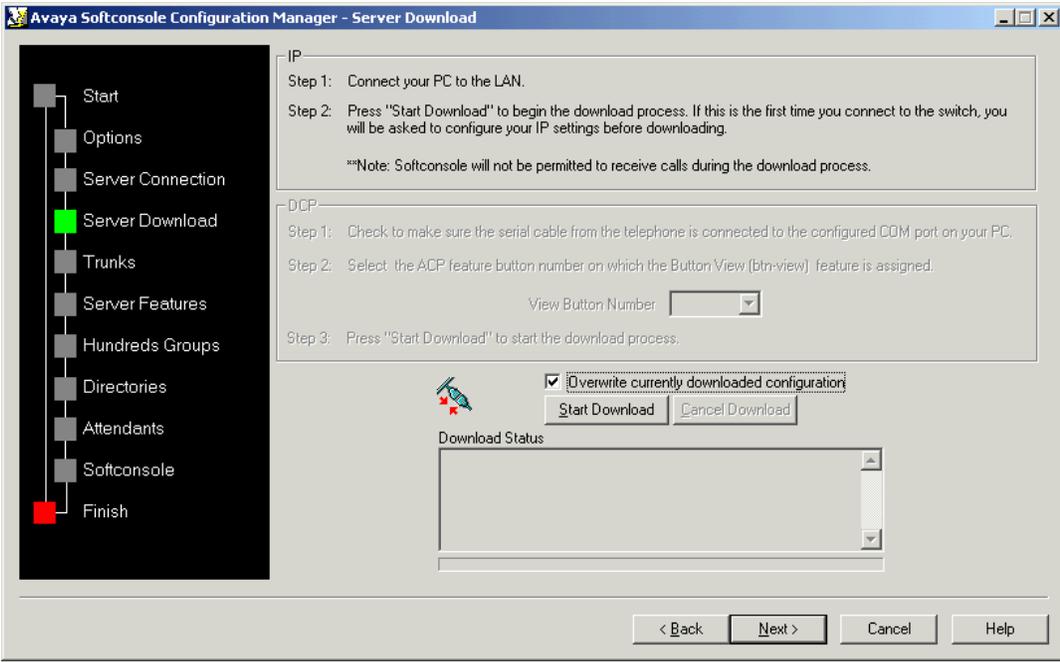
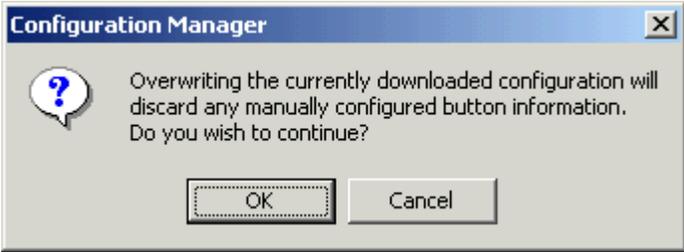
Step	Description																																																																																																																																																																																											
26.	<p>change announcements Page 1 of 16</p> <p style="text-align: center;">ANNOUNCEMENTS/AUDIO SOURCES</p> <table border="1"> <thead> <tr> <th>Ann. No.</th> <th>Ext.</th> <th>Type</th> <th>COR</th> <th>TN</th> <th>Name</th> <th>Q</th> <th>QLen</th> <th>Pr</th> <th>Rt</th> <th>Port</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2999</td> <td>integrated</td> <td>1</td> <td>1</td> <td>Wakeup</td> <td>n</td> <td>NA</td> <td>n</td> <td>64</td> <td>001V9</td> </tr> <tr><td>2</td><td></td><td></td><td>1</td><td>1</td><td></td><td>n</td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td>1</td><td>1</td><td></td><td>n</td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td>1</td><td>1</td><td></td><td>n</td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td>1</td><td>1</td><td></td><td>n</td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td>1</td><td>1</td><td></td><td>n</td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td>1</td><td>1</td><td></td><td>n</td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td>1</td><td>1</td><td></td><td>n</td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td>1</td><td>1</td><td></td><td>n</td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td>1</td><td>1</td><td></td><td>n</td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td>1</td><td>1</td><td></td><td>n</td><td></td><td></td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td><td>1</td><td>1</td><td></td><td>n</td><td></td><td></td><td></td><td></td></tr> <tr><td>13</td><td></td><td></td><td>1</td><td>1</td><td></td><td>n</td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td></td><td></td><td>1</td><td>1</td><td></td><td>n</td><td></td><td></td><td></td><td></td></tr> <tr><td>15</td><td></td><td></td><td>1</td><td>1</td><td></td><td>n</td><td></td><td></td><td></td><td></td></tr> <tr><td>16</td><td></td><td></td><td>1</td><td>1</td><td></td><td>n</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Ann. No.	Ext.	Type	COR	TN	Name	Q	QLen	Pr	Rt	Port	1	2999	integrated	1	1	Wakeup	n	NA	n	64	001V9	2			1	1		n					3			1	1		n					4			1	1		n					5			1	1		n					6			1	1		n					7			1	1		n					8			1	1		n					9			1	1		n					10			1	1		n					11			1	1		n					12			1	1		n					13			1	1		n					14			1	1		n					15			1	1		n					16			1	1		n				
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27.	<p>change system-parameters hospitality Page 2 of 3</p> <p style="text-align: center;">HOSPITALITY</p> <p>Dual Wakeups? n Daily Wakeup? n VIP Wakeup? n</p> <p style="padding-left: 40px;">Room Activated Wakeup With Tones? n</p> <p style="padding-left: 40px;">Time of Scheduled Wakeup Activity Report:</p> <p style="padding-left: 40px;">Time of Scheduled Wakeup Summary Report:</p> <p style="padding-left: 40px;">Time of Scheduled Emergency Access Summary Report:</p> <p style="padding-left: 80px;">Announcement Type: integrated</p> <p style="padding-left: 80px;">Integrated Announcement Extension: 2999</p> <p style="padding-left: 40px;">Length of Time to Remain Connected to Announcement: 30</p> <p style="padding-left: 40px;">Extension to Receive Failed Wakeup LWC Messages:</p> <p style="padding-left: 40px;">Routing Extension on Unavailable Voice Synthesis:</p> <p style="padding-left: 40px;">Display Room Information in Call Display? y</p> <p style="padding-left: 40px;">Automatic Selection of DID Numbers? n</p> <p style="padding-left: 40px;">Custom Selection of VIP DID Numbers? n</p> <p style="padding-left: 80px;">Number of Digits from PMS:</p> <p style="padding-left: 80px;">PMS Sends Prefix? n</p> <p style="padding-left: 40px;">Number of Digits in PMS Coverage Path: 3</p> <p style="padding-left: 80px;">Digit to Insert/Delete:</p>																																																																																																																																																																																											

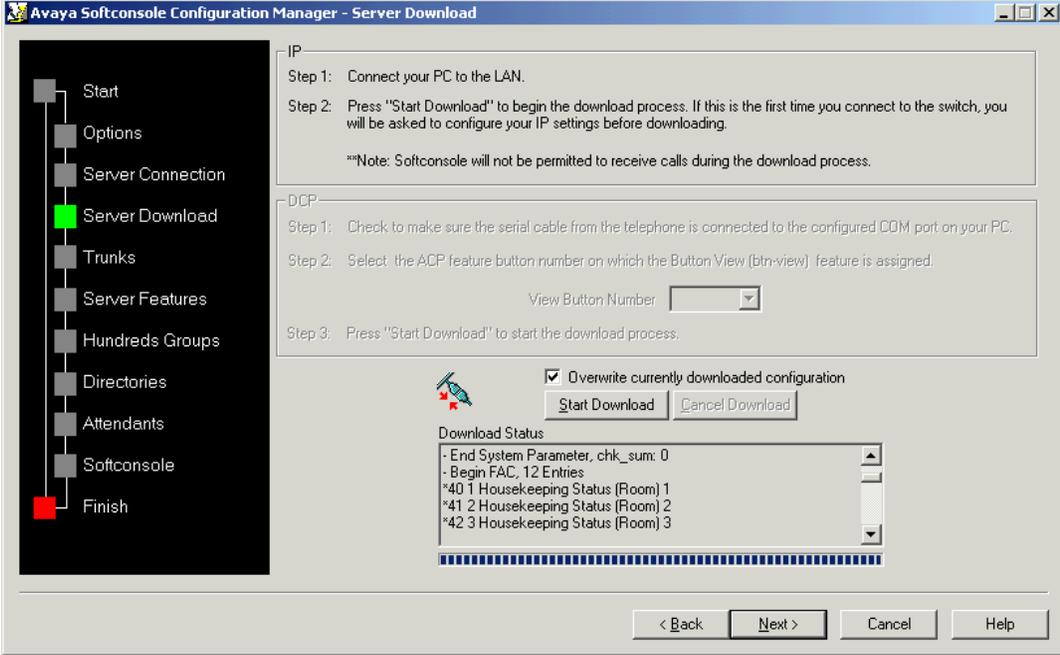
4. Configure the Avaya Softconsole

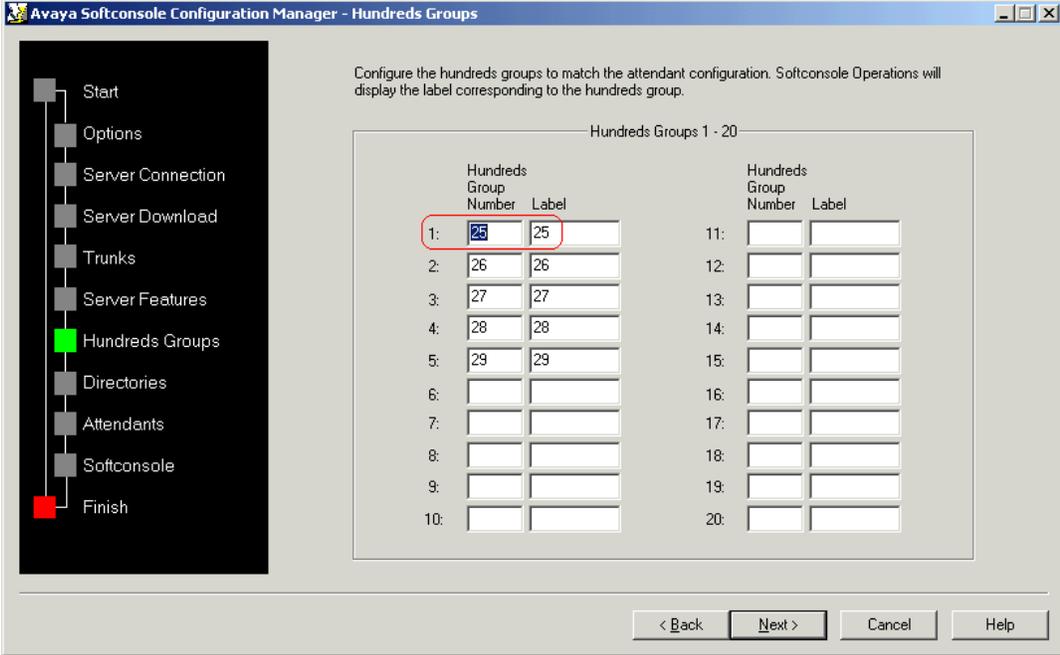
This section provides instructions for configuring the Avaya Softconsole for use in the reference configuration. Please refer to the Avaya Softconsole Installation and Implementation Guide for all other information relating to Avaya Softconsole.

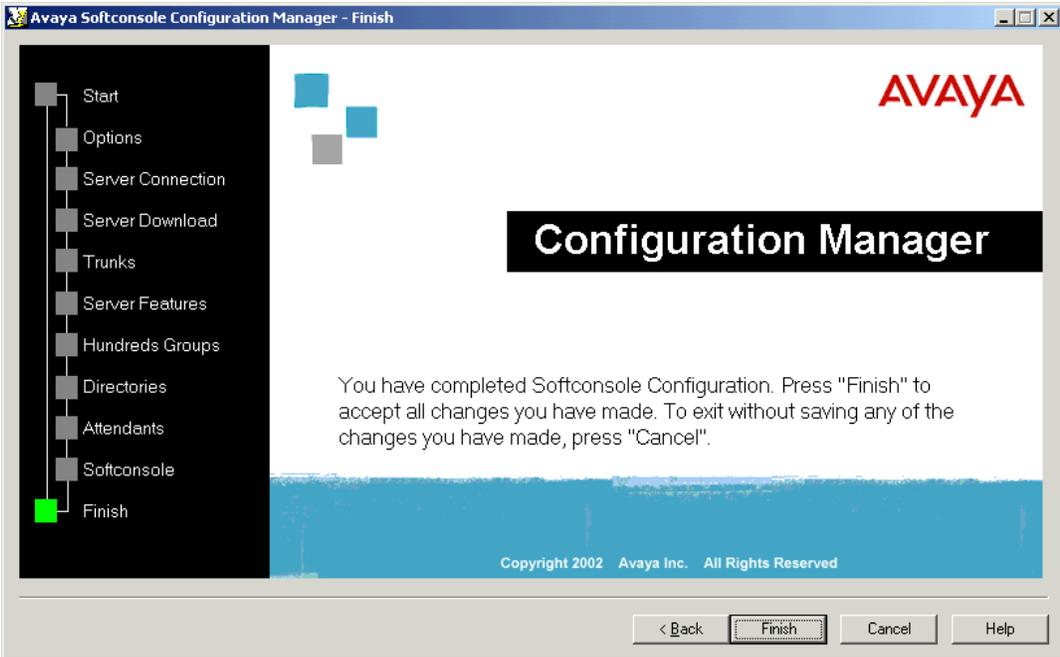
Step	Description
1.	Log into the Softconsole PC using administrative privileges.
Configure the Avaya Softconsole	
2.	Go to Start → Programs → Avaya → Avaya Softconsole → Configuration Manager to launch the Avaya Softconsole Configuration Manager.
3.	In the Softconsole Configuration Manager Login window that appears, enter the password defined for the Configuration Manager during Avaya Softconsole installation and click OK .
4.	In the Avaya Softconsole Configuration Manager – Start window that appears, click Next .
5.	In the Avaya Softconsole Configuration Manager – Options window that appears, click Next .
6.	In the Avaya Softconsole Configuration Manager – Server Connection window that appears, select IP Connection and click Next .



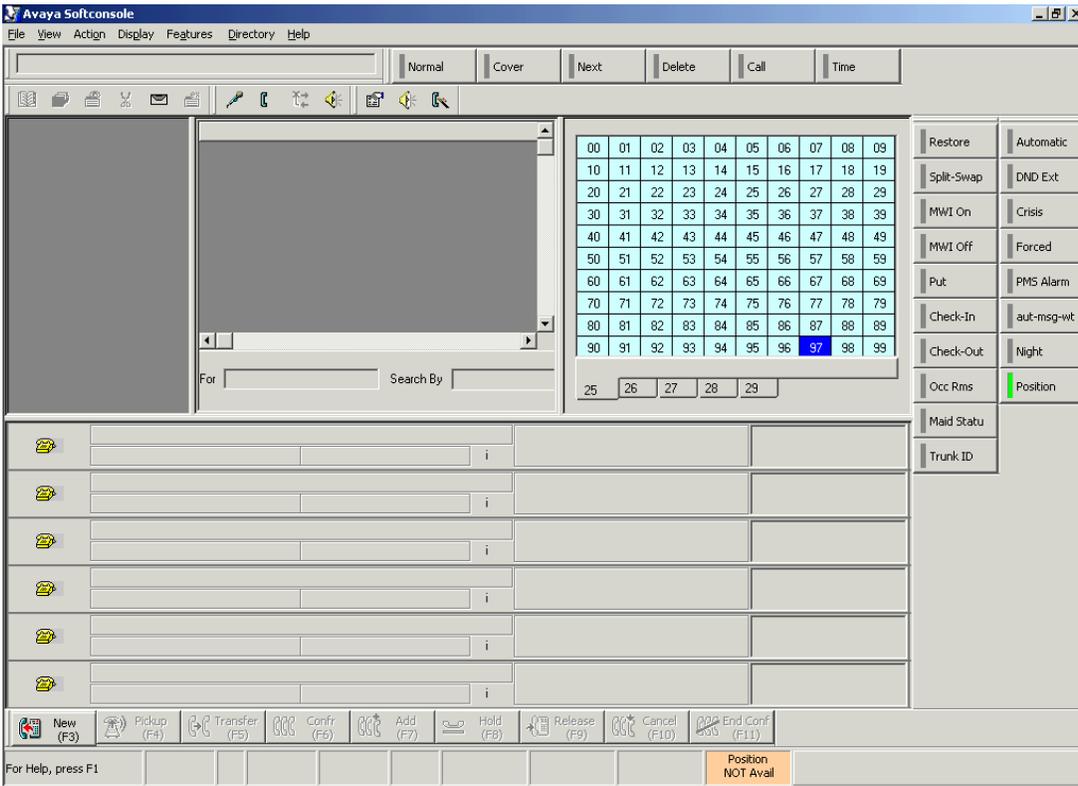
Step	Description
7.	<p>In the Avaya Softconsole Configuration Manager – Server Download window that appears, click Start Download and click Next.</p> 
8.	<p>If the following Configuration Manager popup appears, click OK if appropriate.</p> 

Step	Description
9.	<p>Once the Server Download is complete, click Next.</p>  <p>The screenshot shows the 'Avaya Softconsole Configuration Manager - Server Download' window. On the left is a vertical navigation pane with steps: Start, Options, Server Connection, Server Download (highlighted in green), Trunks, Server Features, Hundreds Groups, Directories, Attendants, Softconsole, and Finish. The main window is divided into sections: 'IP' with steps for connecting to LAN and configuring IP; 'DCP' with steps for checking serial cable and selecting button numbers; a 'View Button Number' dropdown; a checkbox for 'Overwrite currently downloaded configuration'; 'Start Download' and 'Cancel Download' buttons; and a 'Download Status' list showing progress for system parameters and housekeeping status for three rooms. At the bottom are '< Back', 'Next >', 'Cancel', and 'Help' buttons.</p>
10.	<p>In the Avaya Softconsole Configuration Manager – Trunks window that appears, click Next.</p>
11.	<p>In the Avaya Softconsole Configuration Manager – Server Features window that appears, click Next.</p>

Step	Description
12.	<p>In the Avaya Softconsole Configuration Manager – Hundreds Groups window that appears set <i>Hundreds Group Number</i> to the values set in Section 3, step 18, i.e., 25, 26, 27, 28, 29 and click Next.</p> 
13.	In the Avaya Softconsole Configuration Manager – Directories window that appears, click Next .
14.	In the Avaya Softconsole Configuration Manager – Attendants window that appears, click Next .
15.	In the Avaya Softconsole Configuration Manager – Softconsole window that appears, click Next .

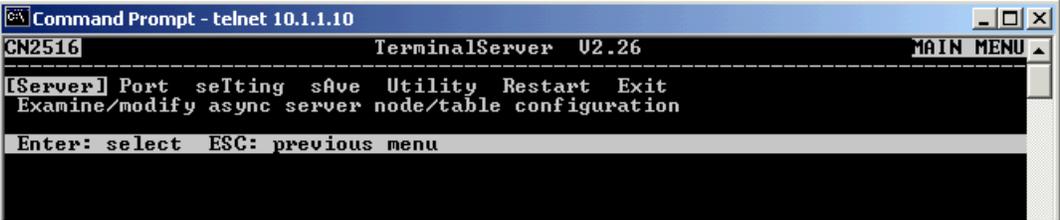
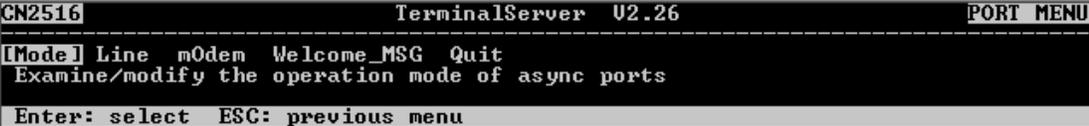
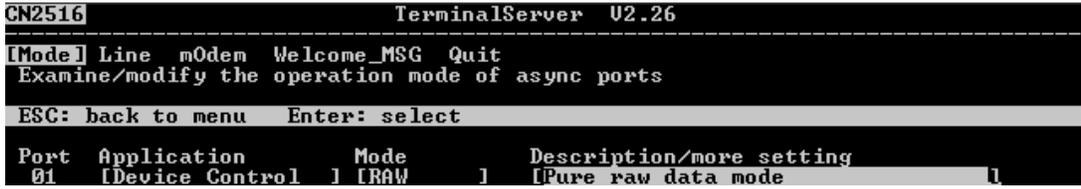
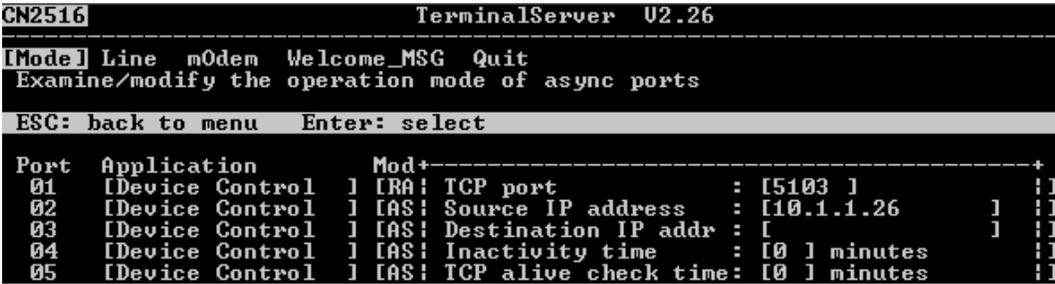
Step	Description
16.	<p>In the Avaya Softconsole Configuration Manager – Finish window that appears, click Finish.</p> 

Step	Description
	Launch Avaya Softconsole
17.	Go to Start → Programs → Avaya → Avaya Softconsole → Avaya Softconsole to launch Avaya Softconsole.
18.	<p>In the Login window that appears, set <i>Extension</i> to 2597, <i>Password</i> to the password defined for the attendant console, <i>Configuration</i> to Log into server as Road Warrior, <i>Server Address</i> to 10.1.1.140, <i>Bandwidth Setting</i> to Local Area Network and click Log in.</p> <div data-bbox="526 537 1268 1234" data-label="Image"> </div>

Step	Description
19.	<p>The Avaya Softconsole window appears as follows.</p>  <p>The screenshot shows the Avaya Softconsole interface. At the top is a menu bar with 'File', 'View', 'Actign', 'Display', 'Features', 'Directory', and 'Help'. Below the menu bar are several buttons: 'Normal', 'Cover', 'Next', 'Delete', 'Call', and 'Time'. A toolbar contains icons for various functions like call, hold, and transfer. The main area is divided into several sections:</p> <ul style="list-style-type: none"> A large greyed-out area on the left, possibly for a call log or display. A search area with 'For' and 'Search By' fields. A grid of extension numbers from 00 to 99. The number 97 is highlighted in blue. A vertical list of buttons on the right side, including 'Restore', 'Automatic', 'Split-Swap', 'DND Ext', 'MWI On', 'Crisis', 'MWI Off', 'Forced', 'Put', 'PMS Alarm', 'Check-In', 'aut-msg-wt', 'Check-Out', 'Night', 'Occ Rms', 'Position', 'Maid Statu', and 'Trunk ID'. A row of function buttons at the bottom: 'New (F3)', 'Pickup (F4)', 'Transfer (F5)', 'Confr (F6)', 'Add (F7)', 'Hold (F8)', 'Release (F9)', 'Cancel (F10)', and 'End Conf (F11)'. Below these is a status bar with 'For Help, press F1' and a 'Position NOT Avail' indicator.

5. Configure the Terminal Server

This section provides instructions for setting up the terminal server.

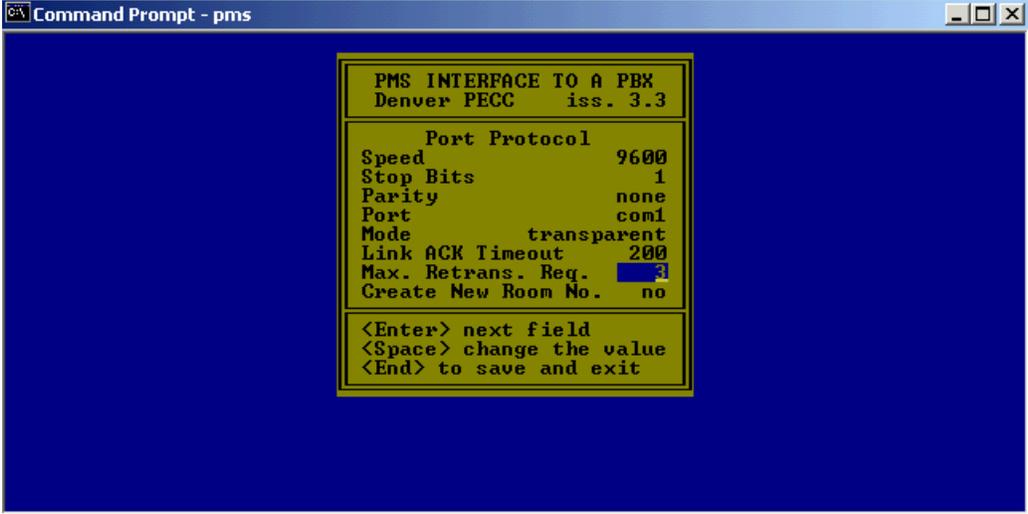
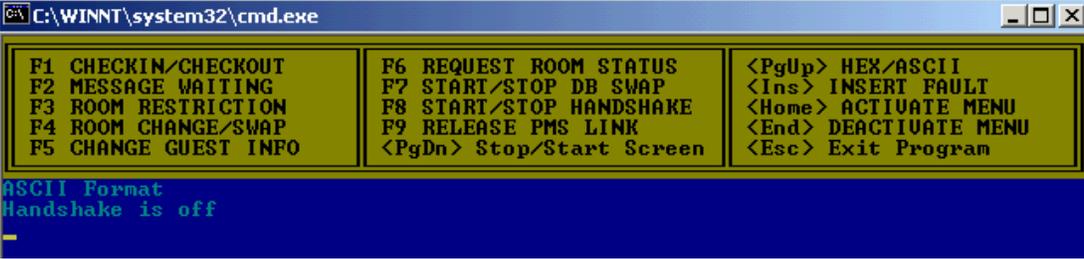
Step	Description
1.	<p>Telnet to the Async CN2516 terminal server and log in using the appropriate administrative credentials. In the MAIN MENU that appears, tab to Port and press Enter.</p> 
2.	<p>In the PORT MENU that appears, select Mode and press Enter.</p> 
3.	<p>In the Mode sub-menu that appears, set <i>Application</i> to Device Control and <i>Mode</i> to RAW for Port 01. Next, tab to the <i>Description/more setting</i> field for Port 01 and press Enter.</p> 
4.	<p>In the Description/more setting sub-menu that appears, set <i>TCP port</i> to the value set for the port in Section 3, step 6, 5103, <i>Source IP address</i> to the value set for the port in Section 3, step 5, 10.1.1.26, press ESC to exit the Description/more setting sub-menu, and press ESC to exit the Mode sub-menu.</p> 

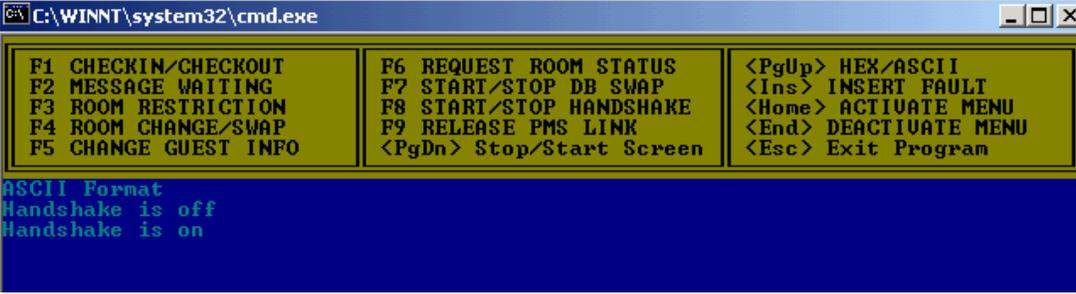
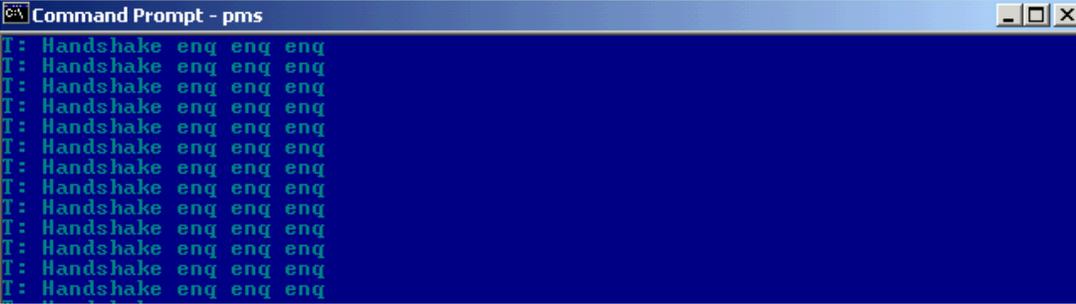
Step	Description
5.	In the PORT MENU that appears, select Line and press Enter . <pre> CN2516 TerminalServer U2.26 PORT MENU ----- [Mode] Line m0dem Welcome_MSG Quit Examine/modify the operation mode of async ports Enter: select ESC: previous menu </pre>
6.	In the Line sub-menu that appears, set <i>Speed</i> to 9600 , <i>Bits</i> to 8 , <i>Stop</i> to 1 , <i>Parity</i> to none , <i>FIFO</i> to yes , <i>RTS/CTS</i> to no , <i>XON/XOFF</i> to no , <i>Discon. ctrl</i> to DSR-off and press ESC to exit the Line sub-menu. <pre> CN2516 TerminalServer U2.26 ----- Mode [Line] m0dem Welcome_MSG Quit Examine/modify asynchronous port configuration ESC: back to menu Enter: select Port Speed Bits Stop Parity FIFO RTS/CTS XON/XOFF Discon. ctrl 01 [9600] [8] [1] [none] [yes] [no] [no] [DSR-off] </pre>
7.	In the PORT MENU that appears, press ESC to return to the MAIN MENU. <pre> CN2516 TerminalServer U2.26 PORT MENU ----- [Mode] Line m0dem Welcome_MSG Quit Examine/modify the operation mode of async ports Enter: select ESC: previous menu </pre>
8.	In the MAIN MENU that appears, select sAve to save the configuration, then Restart to restart the terminal server. This completes configuration of the terminal server. <pre> CN2516 TerminalServer U2.26 MAIN MENU ----- Server [Port] sEtting sAve Utility Restart Exit Examine/modify async server ports configuration_ Enter: select ESC: previous menu </pre>

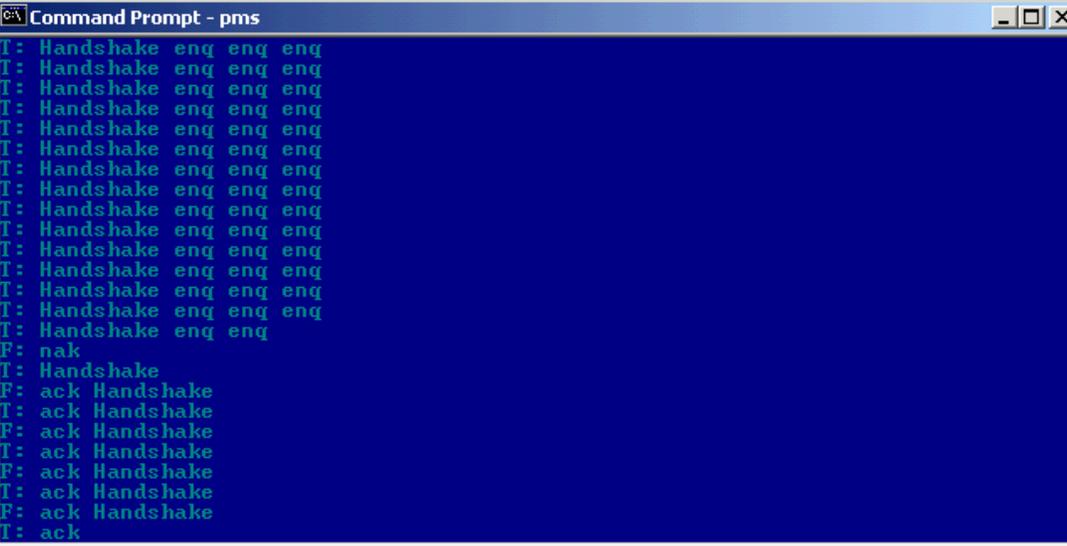
6. Bring up the PMS Data Link

This section provides instructions for bringing up the PMS data link to Avaya Communication Manager through the PC communications port connected to Port 01 of the terminal server, assuming the user has access to either a PMS or a PMS Simulator.

Step	Description
1.	Log into the PMS simulator PC using administrative privileges.
2.	Go to Start → Run . In the Run window that appears, type cmd and click OK .
3.	In the Command Prompt window that appears, change directory to the directory containing the PMS simulator program, e.g., cd \pms .
Configure Port Protocols settings for PMS simulator	
4.	In the PMS simulator program directory, launch the PMS simulator, e.g., type pms at the prompt

Step	Description
5.	<p>In the command prompt window that appears with the PMS simulator Port Protocol settings, set <i>Speed</i> to 9600, <i>Stop Bits</i> to 1, <i>Parity</i> to none, <i>Port</i> to the communications port being used, e.g., com1, <i>Mode</i> to transparent, <i>Link ACK Timeout</i> to 200, <i>Max. Retrans. Req.</i> to 3, and press End to save and exit from the Port Protocols settings screen.</p>  <p>NOTE: The settings for <i>Mode</i>, <i>Link ACK Timeout</i>, and <i>Max. Retrans. Req.</i> must match the settings defined in Avaya Communication Manager’s change system-parameters hospitality form in Section 3, step 7.</p>
Bring up the PMS data link on the PMS simulator	
6.	<p>The command prompt window will next display a table of supported PMS simulator commands. Under the table of commands, the window will display ‘Handshake is off’, press F8 to start handshaking.</p> 

Step	Description
7.	<p>After the message 'Handshake is on' appears, press PgDn to begin displaying messages to the window.</p> 
8.	<p>The PMS simulator will then display “T: Handshake enq enq enq” while it waits for the PMS data link to be started on Avaya Communication Manager. Leave this command prompt window up to monitor events.</p> 
Determine the PMS data link status on Avaya Communication Manager	
9.	<p>From the SAT command line, type status pms-link to determine the status of the PMS data link on Avaya Communication Manager.</p> <pre data-bbox="363 1283 1414 1667"> status pms-link PMS LINK STATUS Physical Link State: up Protocol State: up Number of Retries: no Maintenance Busy? no </pre>

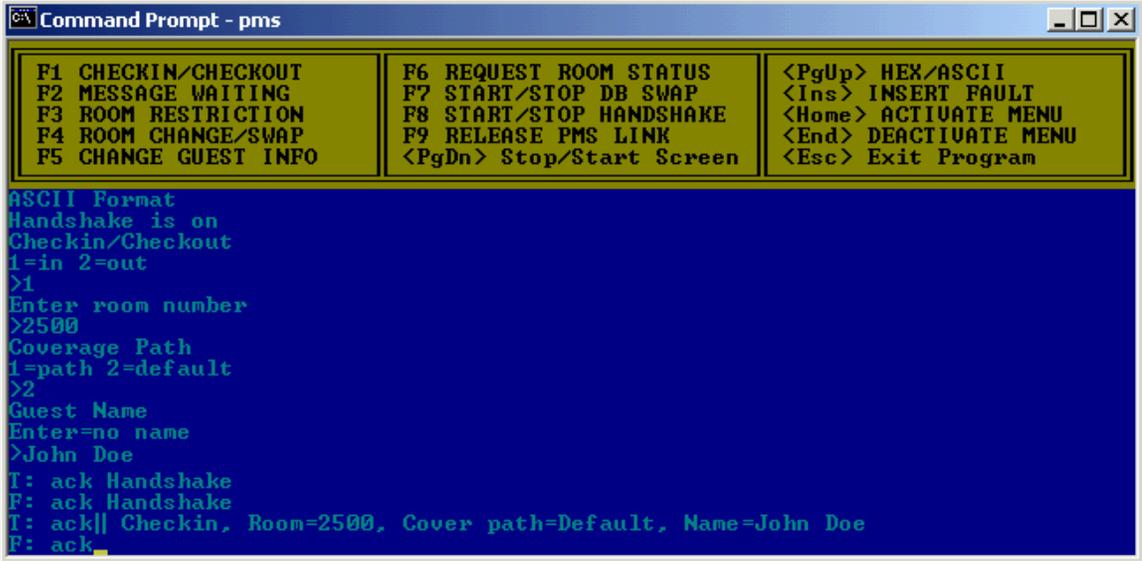
Step	Description
Bring up the PMS data link on Avaya Communication Manager, if necessary	
10.	<p data-bbox="360 304 1427 340">If the PMS link is down, type release pms-link to bring up the PMS data link.</p> <div data-bbox="360 369 1427 697" style="border: 1px solid black; padding: 5px;"> <pre data-bbox="360 369 1427 697"> release pms-link COMMAND RESULTS Port Maintenance Name Alt. Name Result Error Code ----- PMS-LINK PASS Command successfully completed </pre> </div>
Verify the PMS data link is up on the PMS simulator	
11.	<p data-bbox="360 814 1427 913">From the PMS simulator command prompt window verify the “T: Handshake enq enq” messages are replaced with “T: ack Handshake” messages once the PMS data link comes up between the PMS simulator and Avaya Communication Manager.</p> <div data-bbox="360 949 1427 1495" style="border: 1px solid black; padding: 5px;">  <pre data-bbox="360 949 1427 1495"> Command Prompt - pms T: Handshake enq enq enq F: nak T: Handshake F: ack Handshake T: ack </pre> </div>

Step	Description
	Verify the PMS data link is up on Avaya Communication Manager
12.	<p data-bbox="363 304 1424 367">From the SAT command line, type status pms-link to verify the PMS data link is up on Avaya Communication Manager.</p> <div data-bbox="363 403 1416 783" style="border: 1px solid black; padding: 10px;"> <pre data-bbox="381 415 933 583"> status pms-link PMS LINK STATUS Physical Link State: up Protocol State: up Number of Retries: no Maintenance Busy? no </pre> </div>

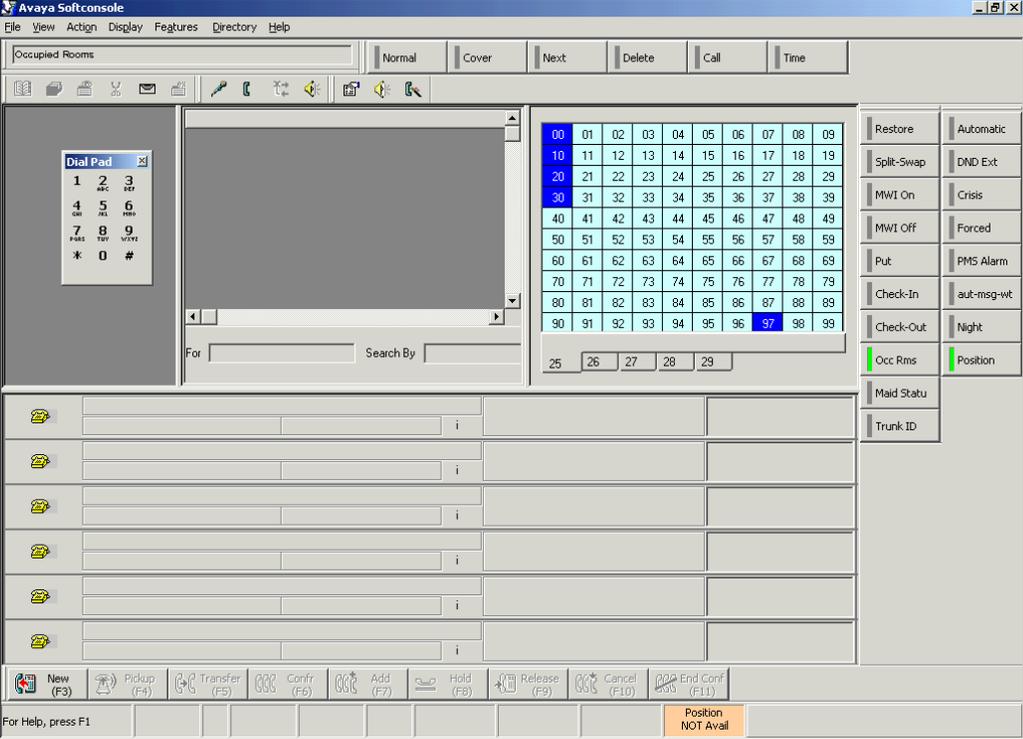
7. Verification Steps

The following steps can be used to verify system operation after a field installation:

- Verify the Offer Category, Hospitality options, node names, IP services and PMS link parameters are set in Avaya Communication Manager (see Section 3).
- Verify the TCP port and IP address of the Terminal Server port connected to the PMS simulator PC matches the port and IP address defined in Avaya Communication Manager (see section 5).
- Verify the PMS Port protocol settings defined in the PMS Simulator matches the settings defined in Avaya Communication Manager (see section 6).
- Bring up the PMS data link on Avaya Communication Manager and the PMS Simulator PC and verify the link is up (see Section 6).
- Perform a room check-in using the PMS Simulator and verify the room extension status information is updated accordingly.

Steps	Description
1.	<p>From the SAT, verify the room with extension 2500 is vacant. Verify <i>User Cntrl Restr</i> is set to outward (e.g., outward calls are restricted) and <i>Room Status</i> is set to vacant in the status station 2500 form.</p> <div data-bbox="293 415 1409 968" style="border: 1px solid black; padding: 10px;"> <pre> status station 2500 Page 1 of 5 GENERAL STATUS Administered Type: 6416D+ Service State: in-service/on-hook Connected Type: 6416D+ Parameter Download: complete Extension: 2500 SAC Activated? no Port: 001V203 User Cntrl Restr: outward Call Parked? no Group Cntrl Restr: none Ring Cut Off Act? no CF Destination Ext: Active Coverage Option: 1 EC500 Status: N/A Off-PBX Service State: N/A Message Waiting: Connected Ports: HOSPITALITY STATUS Awaken at: User DND: not activated Group DND: not activated Room Status: vacant </pre> </div>
2.	<p>From the PMS Simulator, check-in guest John Doe into room with extension 2500.</p> <div data-bbox="293 1079 1435 1640" style="border: 1px solid black; padding: 10px;">  <pre> Command Prompt - pms F1 CHECKIN/CHECKOUT F6 REQUEST ROOM STATUS <PgUp> HEX/ASCII F2 MESSAGE WAITING F7 START/STOP DB SWAP <Ins> INSERT FAULT F3 ROOM RESTRICTION F8 START/STOP HANDSHAKE <Home> ACTIVATE MENU F4 ROOM CHANGE/SWAP F9 RELEASE PMS LINK <End> DEACTIVATE MENU F5 CHANGE GUEST INFO <PgDn> Stop/Start Screen <Esc> Exit Program ASCII Format Handshake is on Checkin/Checkout 1=in 2=out >1 Enter room number >2500 Coverage Path 1=path 2=default >2 Guest Name Enter=no name >John Doe T: ack Handshake F: ack Handshake T: ack Checkin, Room=2500, Cover path=Default, Name=John Doe F: ack </pre> </div>

Steps	Description
3.	<p data-bbox="289 233 1435 338">From the SAT, verify the room with extension 2500 is now occupied. Verify <i>User Cntrl Restr</i> is set to none (e.g., no outward call restrictions) and <i>Room Status</i> is set to occupied in the status station 2500 form.</p> <div data-bbox="293 373 1409 919" style="border: 1px solid black; padding: 10px;"> <pre data-bbox="310 386 1321 911"> status station 2500 Page 1 of 5 GENERAL STATUS Administered Type: 6416D+ Service State: in-service/on-hook Connected Type: 6416D+ Parameter Download: complete Extension: 2500 SAC Activated? no Port: 001V203 User Cntrl Restr: none Call Parked? no Group Cntrl Restr: none Ring Cut Off Act? no CF Destination Ext: Active Coverage Option: 1 EC500 Status: N/A Off-PBX Service State: N/A Message Waiting: Connected Ports: HOSPITALITY STATUS Awaken at: User DND: not activated Group DND: not activated Room Status: occupied </pre> </div>
4.	<p data-bbox="289 963 1403 1031">From the SAT, verify the name of the person registered for extension 2500, John Doe, appears in the list station form.</p> <div data-bbox="293 1079 1409 1633" style="border: 1px solid black; padding: 10px;"> <pre data-bbox="310 1092 1321 1604"> list station Page 1 STATIONS Ext Port/ Name/ Room/ Cv1/ COR/ Cable/ Type Hunt-to Move Data Ext Cv2 COS Jack 2500 001V203 John Doe 6416D+ no 2501 001V201 6416D+ no 2502 001V206 6416D+ no 2503 001V207 6416D+ no 2504 001V208 6416D+ no 2505 001V205 6416D+ no 2510 001V204 6416D+ no </pre> </div>

Steps	Description
5.	<p>From the Avaya Softconsole, verify the room is occupied by pressing the Occ Rms button and verifying the cell representing extension 2500, position 00 in tab 25, turns blue.</p> 

8. Conclusion

Following these steps will result in a successful implementation of the PMS data link on Avaya Communication Manager S8300 Media Server with G700 Media Gateway.

9. References

Avaya product information and similar Application Notes can be found at www.avaya.com.

1. Avaya GuestWorks® and DEFINITY® Systems Technician Handbook for Hospitality Installations, Issue 2, December 2001, 555-231-743
2. Avaya Softconsole Release 1.5 Installation and Implementation Guide, Issue 3, April 2005, 555-233-131

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