



Avaya Solution & Interoperability Test Lab

Application Notes for FCS VoiceMail and Avaya Communication Manager – Issue 1.0

Abstract

These Application Notes describe the procedures for configuring FCS VoiceMail to interoperate with Avaya Communication Manager Release 5.0. FCS VoiceMail is a Windows-based Voice Messaging system designed specifically for Hospitality environments.

Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab at the request of the Solutions Marketing Team.

TABLE OF CONTENTS

1.	Introduction.....	3
1.1.	Interoperability Compliance Testing	3
1.2.	Support.....	3
1.3.	Hospitality Solution Overview.....	4
2.	Network Topology	5
3.	Equipment and Software Validated.....	6
4.	Configure Avaya Communication Manager	7
5.	Configure FCS Voicemail	16
6.	General Test Approach and Test Results.....	35
7.	Verification Steps.....	35
8.	Conclusion	36
9.	Terminology	36
10.	Additional References.....	36

1. Introduction

These Application Notes describe the procedures for configuring FCS VoiceMail to interoperate with Avaya Communication Manager. FCS VoiceMail is a Windows-based Voice Messaging system designed specifically for Hospitality environments. It works seamlessly with a hotel's Avaya Communication Manager and Property Management System. In addition to providing standard Voice Messaging functionality, FCS VoiceMail integrates with FCS WinSuite¹ (a Windows-based Hospitality system that provides a real-time multitasking interface between a PBX and a hotel's Property Management System) to support standard Hospitality feature requests as Automatic Wake-Up (AWU), Housekeeping/Room Status changes, and Minibar charge postings.

These Application Notes present a sample configuration for a hotel environment.

1.1. Interoperability Compliance Testing

Interoperability compliance testing focused on FCS VoiceMail ability to work with Avaya Communication Manager Release 5.0. FCS VoiceMail features and capabilities that were verified included the following: voice message delivery/retrieval/deletion and associated MWL activation/deactivation, recording of personal greetings for guest mailboxes, changing of guest mailbox's PIN/password, setting/cancelling AWU calls, Housekeeping/Room Status and Minibar updates initiated at guest telephones. In addition, FCS WinSuite¹ was used to exercise specific capabilities in FCS VoiceMail.

1.2. Support

For technical support on FCS WinSuite, contact FCS Computer Systems at <http://www.fcscs.com/support.htm>.

¹ Configuration details for this product can be found in [2].

1.3. Hospitality Solution Overview

Hospitality solution is designed for hotel/hospitality environment and is comprised of the following **core components**:

- ✚ **Avaya Communication Manager and Avaya SES** to provide the IP-PBX functionality.
- ✚ **Avaya 4626 IP Telephones**.
- ✚ **Avaya one-X Deskphone SIP** for 9600 Telephones Hospitality Release (2.2.0.7).
- ✚ **FCS Voicemail** integration provides voicemail capabilities and other features applicable in a hospitality environment. FCS VoiceMail is a Windows based Voice Messaging System which is connected to the Avaya Communication Manager via analog phone lines. It utilizes DTMF signaling (specifically mode codes) to communicate Called Party Identification (CPI) and other information to Avaya Communication Manager, in addition to passing voice signaling and traffic. FCS VoiceMail with FCS WinSuite also provides PMS functionality such as check-in, check-out, room status, minibar and Automatic Wake-Up (AWU).
- ✚ **FCS WinSuite** is a Windows-based Hospitality system that provides real-time multitasking interface between Avaya Communication Manager and a hotel's Property Management System (PMS). FCS WinSuite supports standard Hospitality feature requests to/from a PMS (guest room check-in/check-out/moves, Do Not Disturb (DND), Automatic Wake-Up (AWU), Message Waiting Lamp (MWL) control, Housekeeping/Room Status changes. When notified of a guest room check-in, FCS WinSuite removes outbound call restrictions on the guest room extension and changes that extension's Hospitality Status to "occupied." Conversely, when notified of a guest room check-out, FCS WinSuite restricts outbound calls on the guest room extension and sets its Hospitality Status to "vacant." Please refer to [2] for additional details.
- ✚ **Teledex iPhone™ SIP LD4200 and ND2200 Series phones** are SIP endpoints. They integrate into a SIP environment, providing the cost control benefits of managing one network for both voice and data services to guest rooms. The integrated offer for Hospitality Solution consists of two types of Teledex iPhone™ - ND2210S and LD4210S. The ND2210S and LD4210S SIP phones utilize the same firmware and provide the same functionality. However, the LD4210S SIP phone consists of a 5.6-inch color touch screen display, while the ND2210S SIP phone does not have a display. Please refer to [3] for additional details.
- ✚ **Teledex iPhone™ HD6100/6200 Series phones** are hybrid endpoints designed for hotel environment. Teledex iPhone™ HD6100/6200 series phones combine a standard analog phone with an interactive color touch screen display. It is designed for hotel properties which have not upgraded their infrastructure and still have analog wiring to the rooms. Please refer to [4] for additional details.

2. Network Topology

The network implemented for the reference configuration is shown in **Figure 1**. It shows a network consisting primarily of a pair of Avaya S8720 Servers running Avaya Communication Manager in a High Reliability configuration with two Avaya G650 Media Gateways, and FCS VoiceMail server. The terminals used in the testing which can be used for guest rooms or the hotel staff include Avaya 4626² IP Telephones, 96xx SIP Telephones and Teledex iPhones. In addition, FCS WinSuite was used to exercise specific capabilities in FCS VoiceMail. Analog ports on the Intel Dialogic card in the FCS VoiceMail server connects to analog circuit pack TN746B on one of the Avaya G650 Media Gateways. Avaya SoftConsole is a console attendant which can answer calls, conference, hold and transfer guest calls. The Softconsole can view the guest room status. When the PMS system is down, Avaya SoftConsole can check-in/check-out guests.

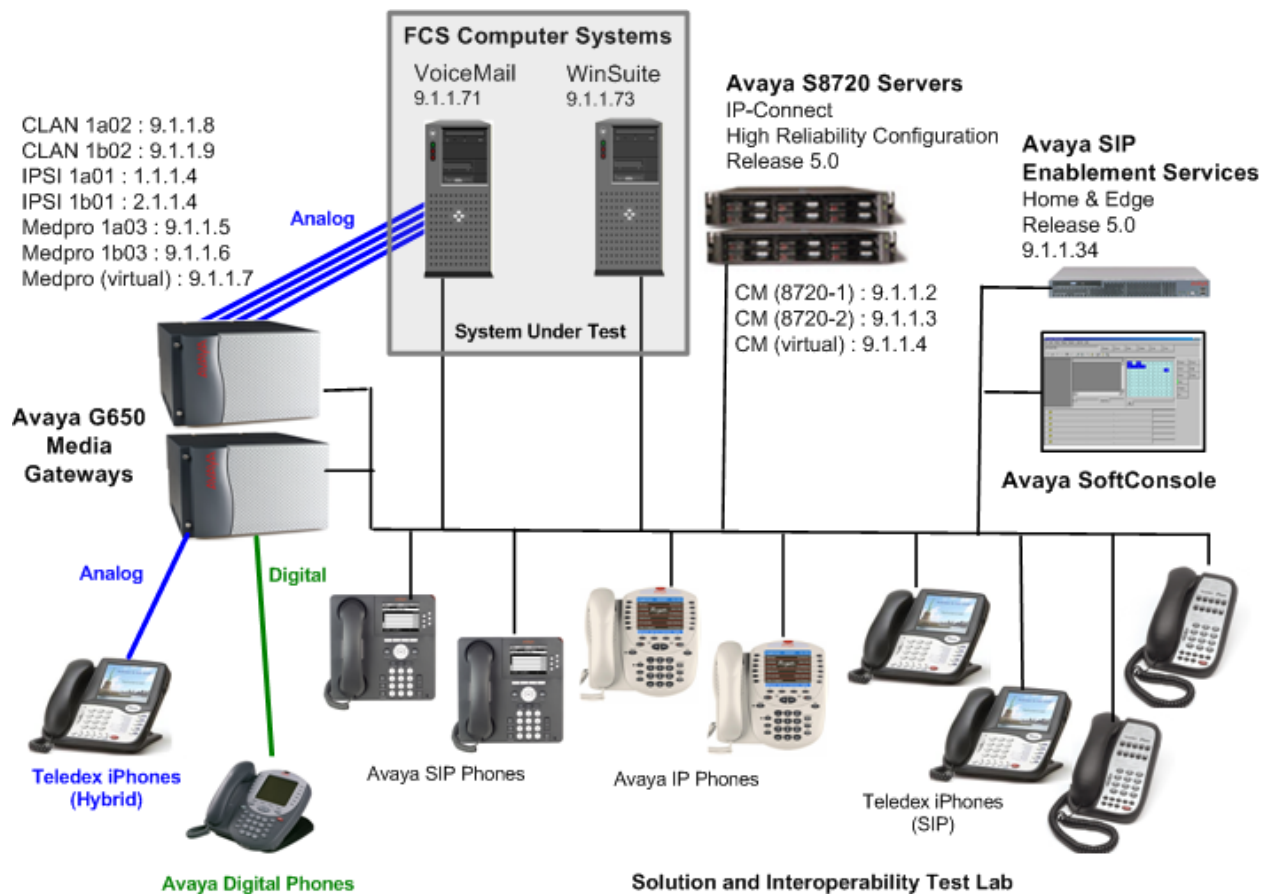


Figure 1: Test Configuration

² This telephone was designed and developed specifically for Hospitality environments.

3. Equipment and Software Validated

The following equipment and software versions were used for the sample configuration.

Device Description	Versions Tested
Avaya Communication Manager - S8720 Servers	Release 5.0 (R015x.00.0.825.4)
Avaya G650 Media Gateway - IPSI (TN2312BP) - CLAN (TN799DP) - MedPro (TN2602AP) - Analog Line (TN746B)	- HW15 FW044 - HW01 FW26 - HW02 FW044 - 000019
Avaya SES (Combined Home-Edge)	Release 5.0 (825.31)
Avaya 4626 IP Telephones	R2.4
Avaya 9600 Series SIP Telephones	R2.2.0.7
Avaya 6211 Analog Telephones	N/A
Avaya 2420 Digital Telephones	N/A
Avaya SoftConsole iClarity Master Directory Scapi 32.dll	1.58.02 4,1,3,15 4.4 0.0.0.16
Teledex iPhone™ SIP LD4100/4200 Series SIP ND2200 Series	Boot Version 2.0.2 (Build Date 7/22/08)
Teledex iPhone™ SIP HD6200 Series	Boot Version 8.09.53.42 (Build Date 3/28/08)
FCS WinSuite Server	WinSuite 99 Version 3.0.14 Microsoft Windows Server 2003 Enterprise Edition, SP1
FCS Voice Mail Server Dialogic 12-port Analog Line Card	3.1.2 Microsoft Windows Server 2003 Enterprise Edition, SP1

4. Configure Avaya Communication Manager

This section details the steps required to configure Avaya Communication Manager to interoperate with FCS VoiceMail. These Application Notes assume the Avaya Media Gateways (including circuit packs) have already been administered. Please refer to [1] for additional details.

The commands listed in this section were issued at the Avaya System Access Terminal (SAT) screen. For all steps where data are modified, submit the completed administration form for the changes to take effect.

Step	Description
1.	<p><i>Enable Mode Code interface:</i></p> <p>Since FCS VoiceMail sends signaling information to Avaya Communication Manager inband using DTMF tones that are interpreted as Mode Codes, this feature must be enabled in Avaya Communication Manager. Enter change system-parameters features, advance to Page 6, and set the Mode Code Interface parameter to y, as shown below:</p> <div><pre>change system-parameters features Page 6 of 17 FEATURE-RELATED SYSTEM PARAMETERS Public Network Trunks on Conference Call: 5 Auto Start? n Conference Parties with Public Network Trunks: 6 Auto Hold? n Conference Parties without Public Network Trunks: 6 Attendant Tone? y Night Service Disconnect Timer (seconds): 180 Bridging Tone? n Short Interdigit Timer (seconds): 3 Conference Tone? n Unanswered DID Call Timer (seconds): Intrusion Tone? n Line Intercept Tone Timer (seconds): 30 Mode Code Interface? y Long Hold Recall Timer (seconds): 0 Reset Shift Timer (seconds): 0 Station Call Transfer Recall Timer (seconds): 0 Recall from VDN? n DID Busy Treatment: tone Allow AAR/ARS Access from DID/DIOD? y Allow ANI Restriction on AAR/ARS? y Use Trunk COR for Outgoing Trunk Disconnect? n 7405ND Numeric Terminal Display? n 7434ND? y DISTINCTIVE AUDIBLE ALERTING Internal: 1 External: 2 Priority: 3 Attendant Originated Calls: external DTMF Tone Feedback Signal to VRU - Connection: Disconnection:</pre></div>

Step	Description
2.	<p><i>Set Mode Code parameters:</i></p> <p>Enter change system-parameters mode-codes and ensure that values are entered in the following fields (these values will be passed to FCS Voicemail as appropriate):</p> <ul style="list-style-type: none"> • Direct Inside Access. • Direct Dial Access – Trunk (only needed if DID service is provided to guest extensions). • Internal Coverage. • External Coverage (only needed if DID service is provided to guest extensions). <p>In addition, enter the following values into the fields indicated to enable FCS VoiceMail to interpret incoming Mode Codes properly:</p> <ul style="list-style-type: none"> • DTMF Duration – Off (msec): 100. • Sending Delay (msec): 100. <div data-bbox="284 884 1464 1482" style="border: 1px solid black; padding: 10px;"> <pre> change system-parameters mode-code Page 1 of 1 MODE CODE RELATED SYSTEM PARAMETERS MODE CODES (FROM SWITCH TO VMS) Direct Inside Access: #00 Direct Dial Access - Trunk: #01 Internal Coverage: #02 External Coverage: #03 Refresh MW Lamp: #06 System In Day Service: #11 System In Night Service: #12 OTHER RELATED PARAMETERS DTMF Duration - On (msec): 100 Off (msec): 100 Sending Delay (msec): 100 VMS Hunt Group Extension: Remote VMS Extensions - First: Second: </pre> </div>

Step	Description
3.	<p data-bbox="282 283 1422 317"><i>Set feature access codes to allow Message Waiting Lamp (MWL) activation/deactivation:</i></p> <p data-bbox="282 336 1446 516">Enter change feature-access-codes and advance to Page 3. Enter values for Leave Word Calling Send A Message and Leave Word Calling Cancel A Message that are consistent with the administered dial plan. These feature access codes (FACs) will be used by FCS VoiceMail to activate and deactivate the MWLs on users' stations, to be administered in FCS VoiceMail in Section 5, Step 14.</p> <div data-bbox="282 554 1464 1188" style="border: 1px solid black; padding: 10px;"> <div data-bbox="295 581 686 606">change feature-access-codes</div> <div data-bbox="1214 581 1432 606" style="text-align: right;">Page 3 of 7</div> <div data-bbox="743 613 1097 636" style="text-align: center;">FEATURE ACCESS CODE (FAC)</div> <div data-bbox="483 638 1032 661" style="text-align: center;">Leave Word Calling Send A Message: *66</div> <div data-bbox="456 663 1032 686" style="text-align: center;">Leave Word Calling Cancel A Message: *67</div> <div data-bbox="341 690 1271 770"> <div>Limit Number of Concurrent Calls Activation:</div> <div>Deactivation:</div> <div>Malicious Call Trace Activation:</div> <div>Deactivation:</div> <div>Meet-me Conference Access Code Change:</div> </div> <div data-bbox="313 802 1315 907"> <div>PASTE (Display PBX data on Phone) Access Code:</div> <div>Personal Station Access (PSA) Associate Code:</div> <div>Dissociate Code:</div> <div>Per Call CPN Blocking Code Access Code:</div> <div>Per Call CPN Unblocking Code Access Code:</div> </div> <div data-bbox="557 936 971 987"> <div>Priority Calling Access Code:</div> <div>Program Access Code:</div> </div> <div data-bbox="397 1016 1271 1148"> <div>Refresh Terminal Parameters Access Code:</div> <div>Remote Send All Calls Activation:</div> <div>Deactivation:</div> <div>Self Station Display Activation:</div> <div>Send All Calls Activation:</div> <div>Deactivation:</div> <div>Station Firmware Download Access Code:</div> </div> </div>

Step	Description
4.	<p><i>Administer analog ports to FCS Voicemail as Voice Mail Interface (VMI) stations:</i></p> <p>Enter add station x (where <i>x</i> is a valid unused extension) and specify the following values:</p> <ul style="list-style-type: none"> • Type: VMI. • Port: A port on the analog line card that is connected to FCS Voicemail. • Name: A descriptive name (in this case, FCS VoiceMail). <div data-bbox="284 554 1464 1073" style="border: 1px solid black; padding: 10px;"> <pre> add station 40075 Page 1 of 4 STATION Extension: 40075 Lock Messages? n BCC: 0 Type: VMI Security Code: TN: 1 Port: 01B0601 COR: 1 Name: FCS VoiceMail COS: 1 Tests? y STATION OPTIONS Loss Group: 1 Off Premises Station? n Time of Day Lock Table: Survivable COR: internal Survivable Trunk Dest? Y </pre> </div>
5.	Repeat Step 4 to add additional VMI stations for each of the analog ports connected to FCS VoiceMail.

Step	Description																																																																																																																																																																																																																																																																																														
6.	<p>Following VMI stations were created for compliance testing.</p> <p>Four analog boards were used for compliance testing. This can vary in a customer deployment.</p> <div><div>list station 40075 count 12<div>Page1</div></div><table><thead><tr><th colspan="11">STATIONS</th></tr><tr><th>Ext/ Hunt-to</th><th>Port/ Type</th><th>Name/ Surv GK NN</th><th>Move</th><th>Room/ Data Ext</th><th>Cv1/ Cv2</th><th>COR/ COS</th><th>Cable/ Jack</th><th></th><th></th><th></th></tr></thead><tbody><tr><td>40075</td><td>01B0601</td><td>Minibar</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>VMI</td><td></td><td>no</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td>40076</td><td>01B0604</td><td>FCS1 VM</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>VMI</td><td></td><td>no</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td>40077</td><td>01B0606</td><td>FCS1 VM</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>VMI</td><td></td><td>no</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td>40078</td><td>01B0609</td><td>FCS1 VM</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>VMI</td><td></td><td>no</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td>40079</td><td>01B0612</td><td>FCS1 VM</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>VMI</td><td></td><td>no</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td>40080</td><td>01B0506</td><td>FCS1 VM</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>VMI</td><td></td><td>no</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td>40081</td><td>01B1101</td><td>FCS1 VM</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>VMI</td><td></td><td>no</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td>40082</td><td>01B1104</td><td>FCS1 VM</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>VMI</td><td></td><td>no</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td>40083</td><td>01B1004</td><td>VM-AWU-40083</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>VMI</td><td></td><td>no</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td>40084</td><td>01B1106</td><td>VM-AWU-40084</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>VMI</td><td></td><td>no</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td>40085</td><td>01B1109</td><td>AWU-40085</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>VMI</td><td></td><td>no</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td>40086</td><td>01B0512</td><td>AWU-40086</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>VMI</td><td></td><td>no</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></tr></tbody></table></div> <p>For the compliance testing:</p> <ul style="list-style-type: none">• Station 40075 will be dedicated for Minibar posting and Room Status updates.• Station 40076 to 40082 will be dedicated lines for Voice Mail. These stations will be administered in a hunt group in next step.• Station 40083 and 40084 will be shared for both Voice Mail and Auto-Wake Up applications. These stations will be administered in a hunt group in next step.• Station 40084 and 40085 will be dedicated lines for Auto-Wake Up only. <p>Additional configuration is required on the FCS applications to map the above stations to the appropriate functions and is described in Section 5, Steps 3-9.</p>	STATIONS											Ext/ Hunt-to	Port/ Type	Name/ Surv GK NN	Move	Room/ Data Ext	Cv1/ Cv2	COR/ COS	Cable/ Jack				40075	01B0601	Minibar				1						VMI		no			1					40076	01B0604	FCS1 VM				1						VMI		no			1					40077	01B0606	FCS1 VM				1						VMI		no			1					40078	01B0609	FCS1 VM				1						VMI		no			1					40079	01B0612	FCS1 VM				1						VMI		no			1					40080	01B0506	FCS1 VM				1						VMI		no			1					40081	01B1101	FCS1 VM				1						VMI		no			1					40082	01B1104	FCS1 VM				1						VMI		no			1					40083	01B1004	VM-AWU-40083				1						VMI		no			1					40084	01B1106	VM-AWU-40084				1						VMI		no			1					40085	01B1109	AWU-40085				1						VMI		no			1					40086	01B0512	AWU-40086				1						VMI		no			1				
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Step	Description
7.	<p><i>Administer Hunt Group:</i></p> <p>Create a hunt group containing the desired set of stations created in Steps 4-6 and add this hunt group extension as the primary coverage point in the coverage path that will be used by Avaya Communication Manager to direct coverage calls for guest extensions to FCS Voicemail.</p> <p>Enter add hunt-group x (where <i>x</i> is a valid unused hunt group number) and specify the following values on Page 1:</p> <ul style="list-style-type: none"> Group Name – Provide a descriptive name of the group. Group Extension – Provide the hunt group extension. <div> <pre> add hunt-group 70 Page 1 of 60 HUNT GROUP Group Number: 70 ACD? n Group Name: FCS1 VoiceMail Queue? n Group Extension: 47777 Vector? n Group Type: ucd-mia Coverage Path: TN: 1 Night Service Destination: COR: 1 MM Early Answer? n Security Code: Local Agent Preference? n ISDN/SIP Caller Display: </pre> </div> <p>Specify the following values on Page 3:</p> <ul style="list-style-type: none"> GROUP MEMBER ASSIGNMENTS – Enter the extension numbers of the Voice Mail stations created in Steps 4-6. <div> <pre> add hunt-group 70 Page 3 of 60 HUNT GROUP Group Number: 70 Group Extension: 47777 Group Type: ucd-mia Member Range Allowed: 1 - 1500 Administered Members (min/max): 1 /10 Total Administered Members: 10 GROUP MEMBER ASSIGNMENTS Ext Name(19 characters) Ext Name(19 characters) 1: 40076 FCS1 VM 14: 2: 40077 FCS1 VM 15: 3: 40078 FCS1 VM 16: 4: 40079 FCS1 VM 17: 5: 40080 FCS1 VM 18: 6: 40081 FCS1 VM 19: 7: 40082 FCS1 VM 20: 8: 40083 VM-AWU-40083 21: 9: 40084 VM-AWU-40084 22: 10: 23: 11: 24: 12: 25: 13: 26: </pre> </div>

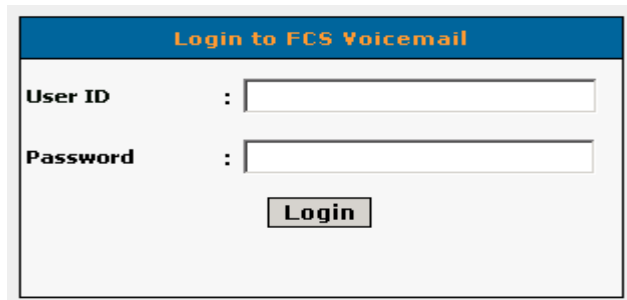

Step	Description
8.	<p><i>Administer Coverage Path:</i></p> <p>Enter add coverage path x (where <i>x</i> is a valid unused path number) and specify the following values:</p> <ul style="list-style-type: none"> The default values can be used for the COVERAGE CRITERIA. Enter voice messaging system hunt group id created in Step 7 for the COVERAGE POINTS Point1. <div> <pre> add coverage path 70 Page 1 of 1 COVERAGE PATH Coverage Path Number: 70 Next Path Number: Hunt after Coverage? n Linkage COVERAGE CRITERIA Station/Group Status Inside Call Outside Call Active? n n Busy? y y Don't Answer? y y All? n n DND/SAC/Goto Cover? y y Holiday Coverage? n n Number of Rings: 2 COVERAGE POINTS Terminate to Coverage Pts. with Bridged Appearances? n Point1: h70 Rng: 1 Point2: Point3: Point4: Point5: Point6: </pre> </div>

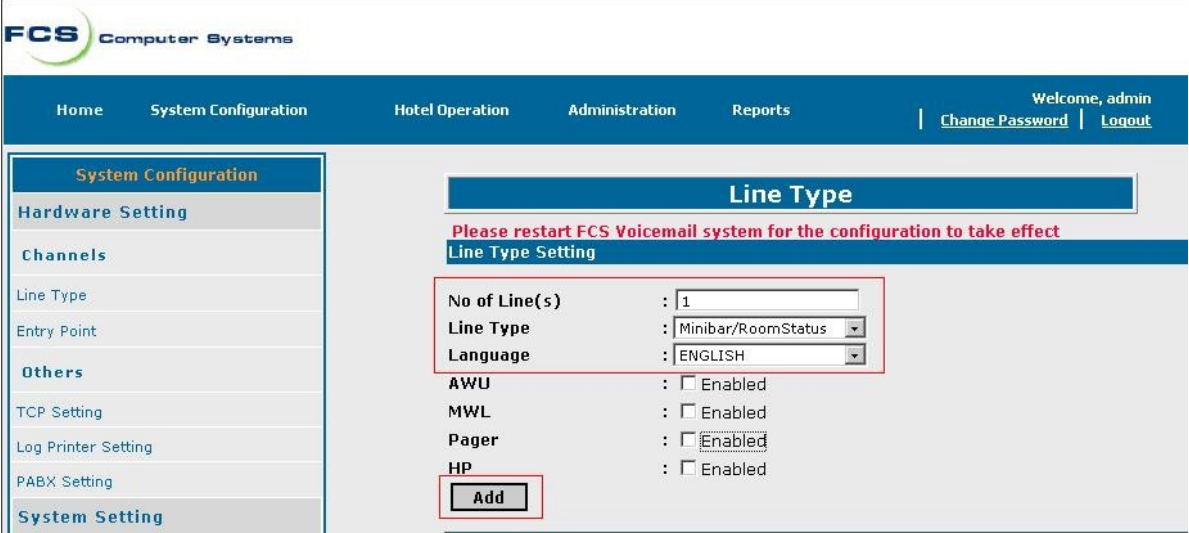
Step	Description
9.	<p data-bbox="282 285 813 317"><i>Administer Priority Calling Access Code:</i></p> <p data-bbox="282 338 1382 407">The Auto-Wake-Up calls from the FCS VoiceMail will be delivered to the guest room phones as priority calls.</p> <p data-bbox="282 428 1419 459">Enter change feature-access-code and specify the value for Priority Calling (on Page 3).</p> <div data-bbox="282 495 1464 1096" style="border: 1px solid black; padding: 10px;"> <p data-bbox="298 501 686 525">change feature-access-codes</p> <p data-bbox="1203 501 1419 525" style="text-align: right;">Page 3 of 9</p> <p data-bbox="743 529 1097 550" style="text-align: center;">FEATURE ACCESS CODE (FAC)</p> <p data-bbox="483 554 1029 577">Leave Word Calling Send A Message: *66</p> <p data-bbox="456 581 1029 604">Leave Word Calling Cancel A Message: *67</p> <p data-bbox="342 609 1271 632">Limit Number of Concurrent Calls Activation: Deactivation:</p> <p data-bbox="513 636 1271 659">Malicious Call Trace Activation: Deactivation:</p> <p data-bbox="427 663 971 686">Meet-me Conference Access Code Change:</p> <p data-bbox="315 718 971 741">PASTE (Display PBX data on Phone) Access Code:</p> <p data-bbox="329 745 1313 768">Personal Station Access (PSA) Associate Code: Dissociate Code:</p> <p data-bbox="415 772 971 795">Per Call CPN Blocking Code Access Code:</p> <p data-bbox="386 800 971 823">Per Call CPN Unblocking Code Access Code:</p> <p data-bbox="557 852 1029 875" style="text-align: center;">Priority Calling Access Code: *68</p> <p data-bbox="686 879 971 903">Program Access Code:</p> <p data-bbox="399 934 971 957">Refresh Terminal Parameters Access Code:</p> <p data-bbox="500 961 1271 984">Remote Send All Calls Activation: Deactivation:</p> <p data-bbox="513 989 971 1012">Self Station Display Activation:</p> <p data-bbox="602 1016 1330 1039">Send All Calls Activation: *98 Deactivation: *97</p> <p data-bbox="427 1043 971 1066">Station Firmware Download Access Code:</p> </div> <p data-bbox="282 1115 1442 1184">This feature access code will be administered in FCS VoiceMail (AWU.txt file) in Section 5, Step 26.</p>

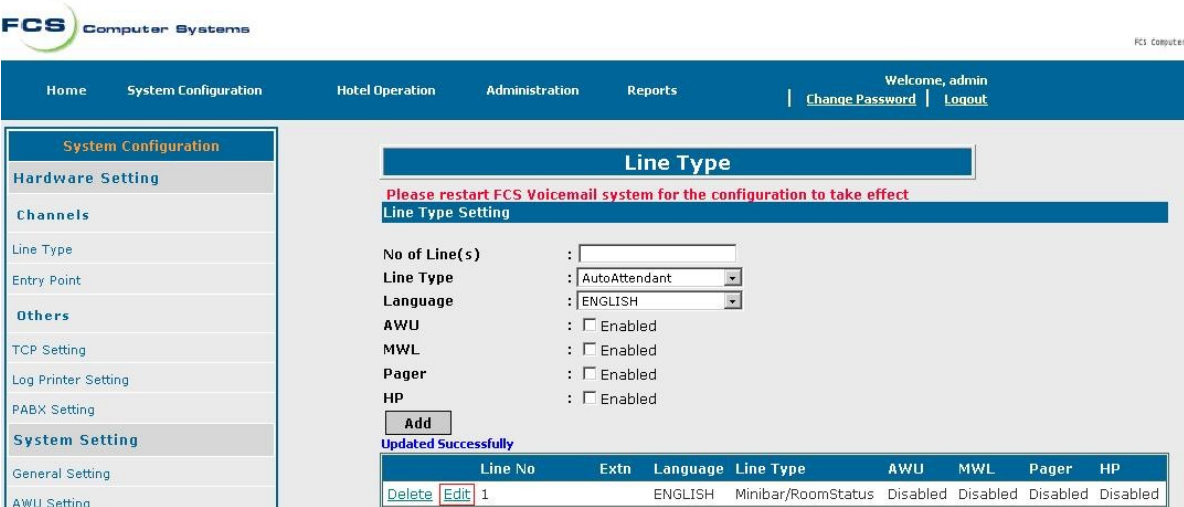
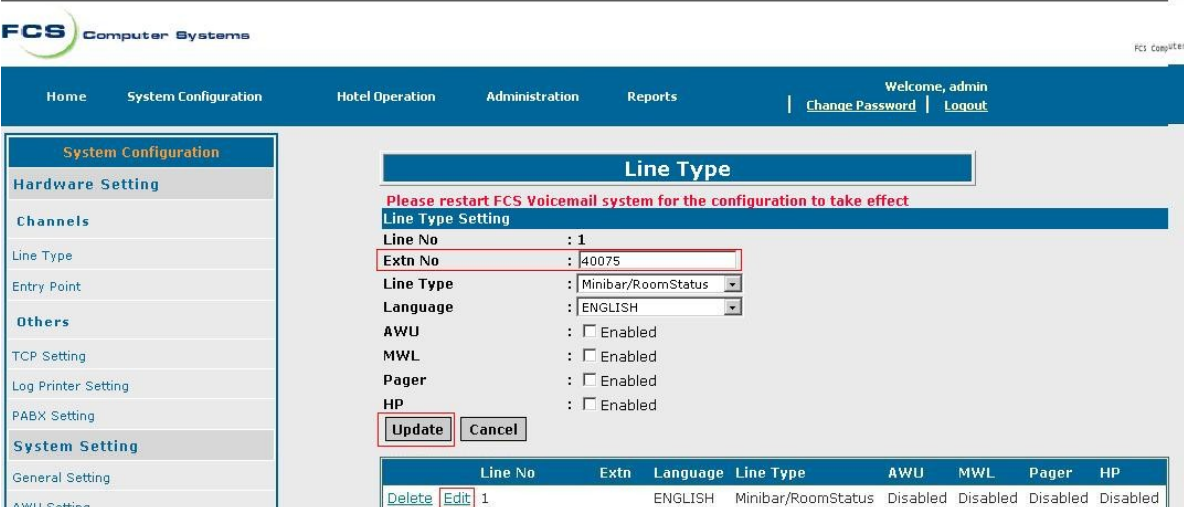
Step	Description												
10.	<p data-bbox="282 285 828 317"><i>Enable Station Tone Forward Disconnect:</i></p> <p data-bbox="282 338 1393 411">Enter change system-parameter features and select “busy” for Station Tone Forward Disconnect (on Page 10).</p> <div data-bbox="282 443 1466 909" style="border: 1px solid black; padding: 10px;"> <div data-bbox="297 447 1435 474"> <div>change system-parameters features</div> <div>Page 10 of 17</div> </div> <div data-bbox="643 478 1117 501">FEATURE-RELATED SYSTEM PARAMETERS</div> <div data-bbox="313 527 1435 693"> <table> <tr> <td>Pull Transfer: n</td><td>Update Transferred Ring Pattern? n</td></tr> <tr> <td>Outpulse Without Tone? y</td><td>Wait Answer Supervision Timer? n</td></tr> <tr> <td>Misoperation Alerting? n</td><td>Repetitive Call Waiting Tone? n</td></tr> <tr> <td>Allow Conference via Flash? y</td><td></td></tr> <tr> <td>Vector Disconnect Timer (min):</td><td>Network Feedback During Tone Detection? y</td></tr> <tr> <td>Hear Zip Tone Following VOA? y</td><td>System Updates Time On Station Displays? n</td></tr> </table> </div> <div data-bbox="443 718 1175 854"> <p>Station Tone Forward Disconnect: busy</p> <p>Level Of Tone Detection: precise</p> <p>Charge Display Update Frequency (seconds): 30</p> <p>Date Format on Terminals: mm/dd/yy</p> <p>Onhook Dialing on Terminals? n</p> </div> </div>	Pull Transfer: n	Update Transferred Ring Pattern? n	Outpulse Without Tone? y	Wait Answer Supervision Timer? n	Misoperation Alerting? n	Repetitive Call Waiting Tone? n	Allow Conference via Flash? y		Vector Disconnect Timer (min):	Network Feedback During Tone Detection? y	Hear Zip Tone Following VOA? y	System Updates Time On Station Displays? n
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Outpulse Without Tone? y	Wait Answer Supervision Timer? n												
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Hear Zip Tone Following VOA? y	System Updates Time On Station Displays? n												

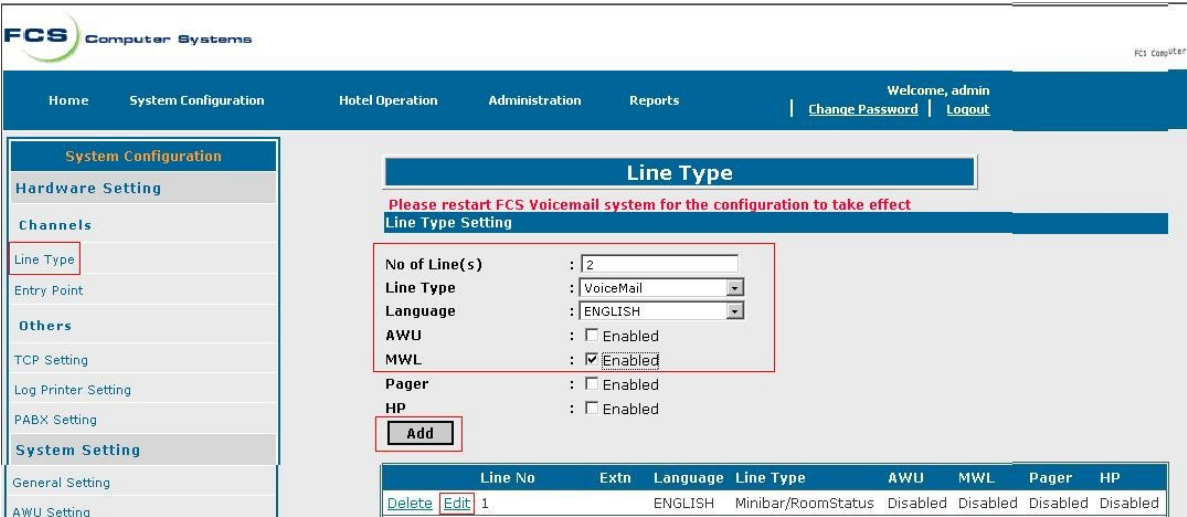
5. Configure FCS Voicemail

This section details the steps required to configure FCS VoiceMail to interoperate with Avaya Communication Manager. These Application Notes assume that the FCS Voicemail application has already been properly installed by FCS services personnel.

Step	Description
1.	<p>Open the FCS VoiceMail administration web client.</p> <p>Launch a web browser, and enter <a href="http://<ip address of Voicemail Server>/voicemailwebui/password.aspx">http://<ip address of Voicemail Server>/voicemailwebui/password.aspx.</p> <p>Following screen will appear. Log in with the appropriate credentials.</p> <div data-bbox="555 774 1177 1071"></div>
2.	<p>At the subsequent administrative menu, select the link for System Configuration.</p> <div data-bbox="347 1228 1386 1772"></div>

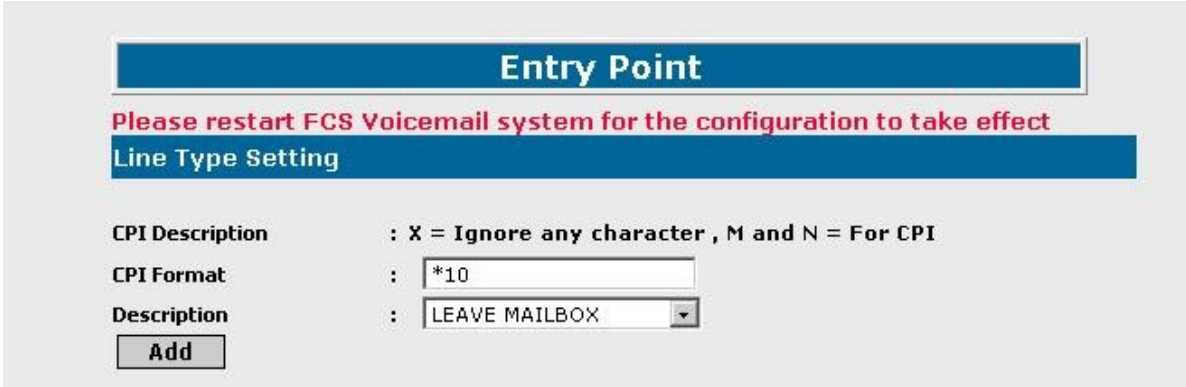
Step	Description
3.	<p><i>Configure channels by line type for Minibar and Room status posting:</i></p> <p>In the Line Type Setting form, enter the following values:</p> <ul style="list-style-type: none"> • No. of Line(s): The number of lines to be configured as the desired Line Type (in this example, 1). • Line Type: Select Minibar/Room Status from the drop-down. • Language: Select the language to be provided by FCS VoiceMail in prompts to the user (in this example, ENGLISH). <p>Click Add to submit the form.</p> 

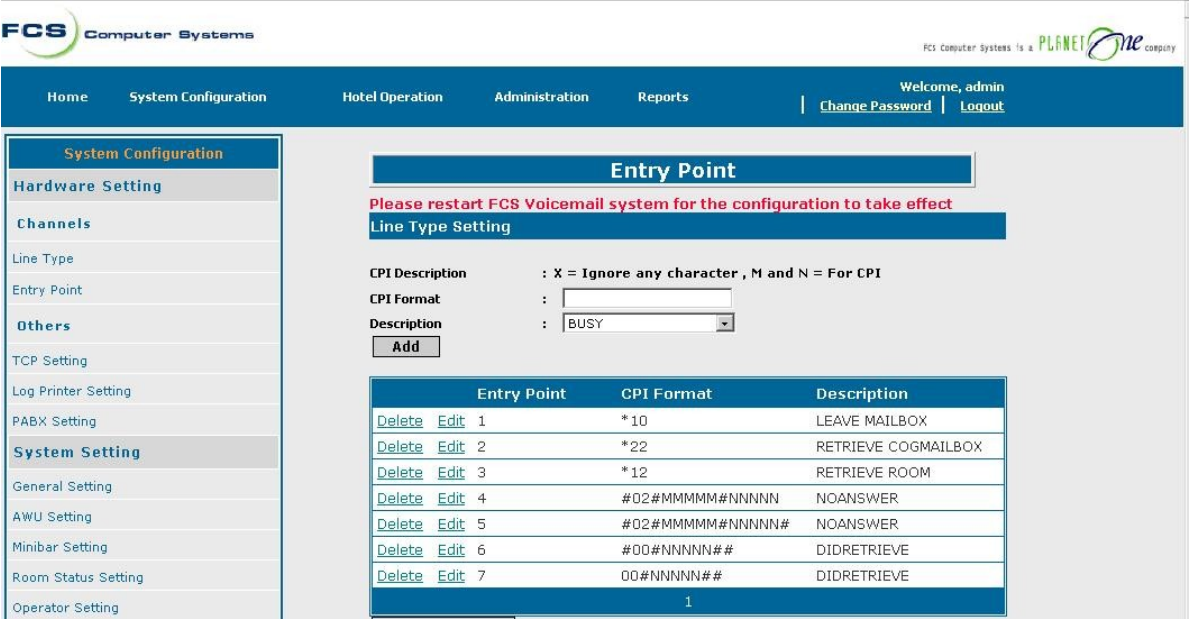
Step	Description
4.	<p><i>Add extension detail to lines:</i></p> <p>The screen that follows includes a table listing of the lines. Select the Edit link next to the line.</p>  <p>In the Extn No field, enter the extension number corresponding to the port from Avaya Communication Manager connected to the Dialogic card in the FCS VoiceMail server (in the example shown below, 40075). Click Update to submit the form.</p> 

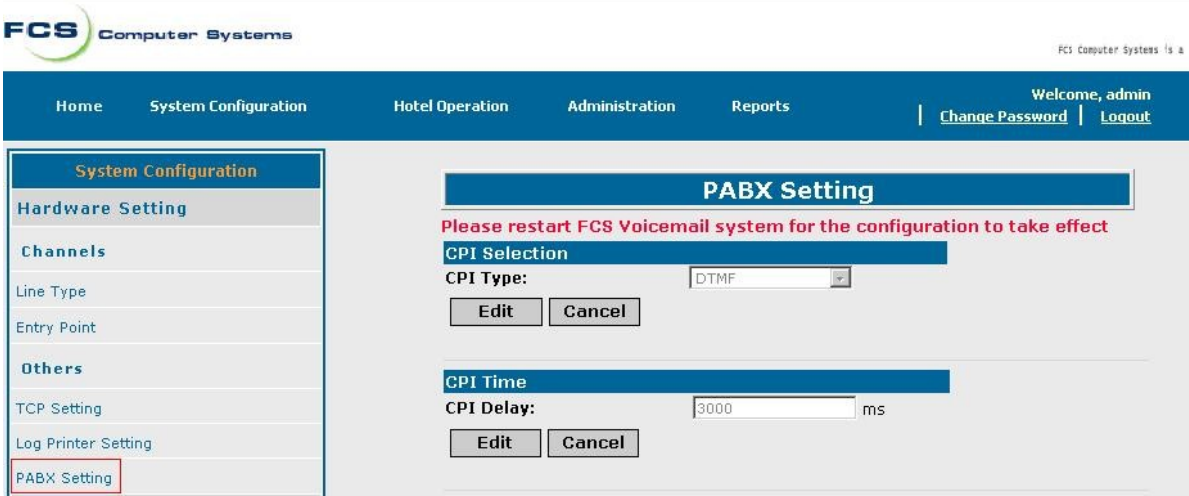
Step	Description
5.	<p><i>Configure channels by line type for VoiceMail:</i></p> <p>In the Line Type Setting form, enter the following values:</p> <ul style="list-style-type: none"> • No. of Line(s): The number of lines to be configured as the desired Line Type (in this example, 2). • Line Type: Select VoiceMail from the drop-down. • Language: Select the language to be provided by FCS VoiceMail in prompts to the user (in this example, ENGLISH). • Check appropriate box to enable MWL. <p>Click Add to submit the form.</p> 

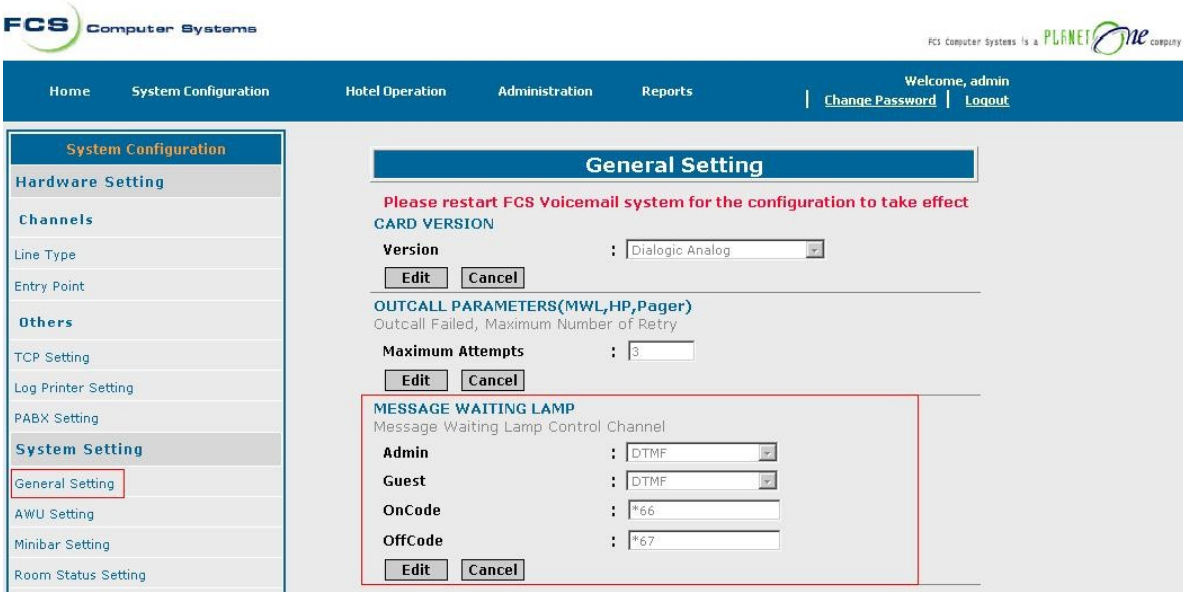
Step	Description
8.	<p><i>Configure channels by line type for VoiceMail and Auto-Wake Up:</i></p> <p>In the Line Type Setting form, enter the following values:</p> <ul style="list-style-type: none"> • No. of Line(s): The number of lines to be configured as the desired Line Type (in this example, 2). • Line Type: Select VoiceMail from the drop-down • Language: Select the language to be provided by FCS VoiceMail in prompts to the user (in this example, ENGLISH). • Check appropriate boxes to enable MWL and AWU. <p>Click Add to submit the form.</p> <p>Select the Edit link next to the appropriate line number (in this example, select 9) and in the Extn No field, enter the extension number corresponding to the port from Avaya Communication Manager connected to the Dialogic card in the FCS VoiceMail server (in the example select 40083). Click Update to submit the form.</p>
9.	<p><i>Configure channels by line type for Auto-Wake Up:</i></p> <p>In the Line Type Setting form, enter the following values:</p> <ul style="list-style-type: none"> • No. of Line(s): The number of lines to be configured as the desired Line Type (in this example, 2). • Line Type: Select Auto Wakeup from the drop-down. • Language: Select the language to be provided by FCS VoiceMail in prompts to the user (in this example, ENGLISH). • Check appropriate boxes to enable MWL and AWU. <p>Click Add to submit the form.</p> <p>Select the Edit link next to the appropriate line number (in this example, select 11) and in the Extn No field, enter the extension number corresponding to the port from Avaya Communication Manager connected to the Dialogic card in the FCS VoiceMail server (in the example select 40085). Click Update to submit the form.</p>

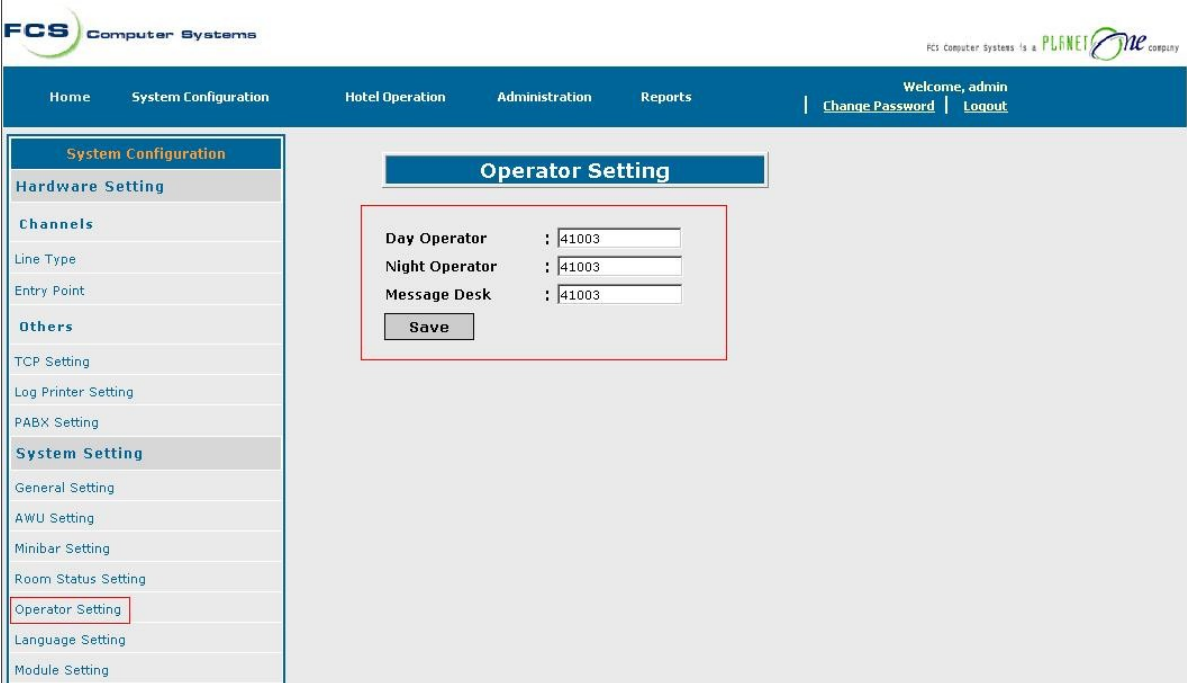
Step	Description																																																																																																																					
10.	<p>The complete table of all lines and their configured values is presented below.</p> <div><div><div>System Configuration</div><div>Hardware Setting</div><div>Channels</div><div>Line Type</div><div>Entry Point</div><div>Others</div><div>TCP Setting</div><div>Log Printer Setting</div><div>PABX Setting</div><div>System Setting</div><div>General Setting</div><div>AWU Setting</div><div>Minibar Setting</div><div>Room Status Setting</div><div>Operator Setting</div><div>Language Setting</div><div>Module Setting</div><div>Email Setting</div><div>Database Setup</div><div>Guest Mailbox Setup</div><div>Admin Mailbox Setup</div></div><div><div>Line Type</div><div>Please restart FCS Voicemail system for the configuration to take effect</div><div>Line Type Setting</div><div>No of Line(s) : <input type="text"/></div><div>Line Type : <div>AutoAttendant</div></div><div>Language : <div>ENGLISH</div></div><div>AWU : <input type="checkbox"/> Enabled</div><div>MWL : <input type="checkbox"/> Enabled</div><div>Pager : <input type="checkbox"/> Enabled</div><div>HP : <input type="checkbox"/> Enabled</div><div>Add</div><table><tr><th></th><th>Line No</th><th>Extn</th><th>Language</th><th>Line Type</th><th>AWU</th><th>MWL</th><th>Pager</th><th>HP</th></tr><tr><td>Delete Edit</td><td>1</td><td>40075</td><td>ENGLISH</td><td>Minibar/RoomStatus</td><td>Disabled</td><td>Disabled</td><td>Disabled</td><td>Disabled</td></tr><tr><td>Delete Edit</td><td>2</td><td>40076</td><td>ENGLISH</td><td>VoiceMail</td><td>Disabled</td><td>Enabled</td><td>Disabled</td><td>Disabled</td></tr><tr><td>Delete Edit</td><td>3</td><td>40077</td><td>ENGLISH</td><td>VoiceMail</td><td>Disabled</td><td>Enabled</td><td>Disabled</td><td>Disabled</td></tr><tr><td>Delete Edit</td><td>4</td><td>40078</td><td>ENGLISH</td><td>VoiceMail</td><td>Disabled</td><td>Enabled</td><td>Disabled</td><td>Disabled</td></tr><tr><td>Delete Edit</td><td>5</td><td>40079</td><td>ENGLISH</td><td>VoiceMail</td><td>Disabled</td><td>Enabled</td><td>Disabled</td><td>Disabled</td></tr><tr><td>Delete Edit</td><td>6</td><td>40080</td><td>ENGLISH</td><td>VoiceMail</td><td>Disabled</td><td>Enabled</td><td>Disabled</td><td>Disabled</td></tr><tr><td>Delete Edit</td><td>7</td><td>40081</td><td>ENGLISH</td><td>VoiceMail</td><td>Disabled</td><td>Enabled</td><td>Disabled</td><td>Disabled</td></tr><tr><td>Delete Edit</td><td>8</td><td>40082</td><td>ENGLISH</td><td>VoiceMail</td><td>Disabled</td><td>Enabled</td><td>Disabled</td><td>Disabled</td></tr><tr><td>Delete Edit</td><td>9</td><td>40083</td><td>ENGLISH</td><td>VoiceMail</td><td>Enabled</td><td>Enabled</td><td>Disabled</td><td>Disabled</td></tr><tr><td>Delete Edit</td><td>10</td><td>40084</td><td>ENGLISH</td><td>VoiceMail</td><td>Enabled</td><td>Enabled</td><td>Disabled</td><td>Disabled</td></tr><tr><td>Delete Edit</td><td>11</td><td>40085</td><td>ENGLISH</td><td>Auto Wakeup</td><td>Enabled</td><td>Enabled</td><td>Disabled</td><td>Disabled</td></tr><tr><td>Delete Edit</td><td>12</td><td>40086</td><td>ENGLISH</td><td>Auto Wakeup</td><td>Enabled</td><td>Enabled</td><td>Disabled</td><td>Disabled</td></tr></table></div></div>		Line No	Extn	Language	Line Type	AWU	MWL	Pager	HP	Delete Edit	1	40075	ENGLISH	Minibar/RoomStatus	Disabled	Disabled	Disabled	Disabled	Delete Edit	2	40076	ENGLISH	VoiceMail	Disabled	Enabled	Disabled	Disabled	Delete Edit	3	40077	ENGLISH	VoiceMail	Disabled	Enabled	Disabled	Disabled	Delete Edit	4	40078	ENGLISH	VoiceMail	Disabled	Enabled	Disabled	Disabled	Delete Edit	5	40079	ENGLISH	VoiceMail	Disabled	Enabled	Disabled	Disabled	Delete Edit	6	40080	ENGLISH	VoiceMail	Disabled	Enabled	Disabled	Disabled	Delete Edit	7	40081	ENGLISH	VoiceMail	Disabled	Enabled	Disabled	Disabled	Delete Edit	8	40082	ENGLISH	VoiceMail	Disabled	Enabled	Disabled	Disabled	Delete Edit	9	40083	ENGLISH	VoiceMail	Enabled	Enabled	Disabled	Disabled	Delete Edit	10	40084	ENGLISH	VoiceMail	Enabled	Enabled	Disabled	Disabled	Delete Edit	11	40085	ENGLISH	Auto Wakeup	Enabled	Enabled	Disabled	Disabled	Delete Edit	12	40086	ENGLISH	Auto Wakeup	Enabled	Enabled	Disabled	Disabled
	Line No	Extn	Language	Line Type	AWU	MWL	Pager	HP																																																																																																														
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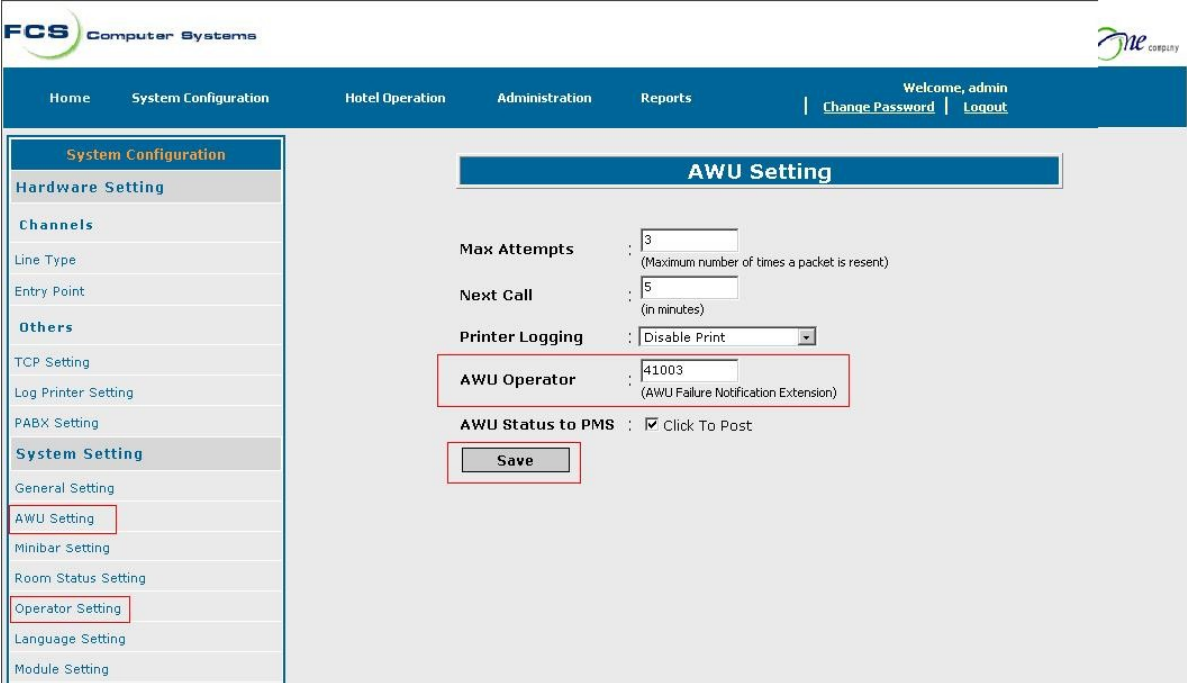
Step	Description
11.	<p><i>Add entry points:</i></p> <p>Entry points map the expected sequences of leading DTMF digits to actions to be taken by FCS VoiceMail. To define an entry point, select Entry Point from the System Configuration menu in the left pane. Enter values in the associated fields as follows:</p> <ul style="list-style-type: none"> • CPI Format: Enter the sequence that will match this entry point (in this example, *10). • Description: Select the desired action to be associated with this entry point. In this example LEAVE MAILBOX (entered by the hotel operator after recording and sending a message to a guest mailbox) is selected. Other valid values include: <ul style="list-style-type: none"> ○ RETRIEVE COGMAILBOX (to allow the hotel operator to retrieve a guest mailbox's messages from any phone). ○ RETRIEVE ROOM (to allow the hotel operator to retrieve messages from a mailbox associated with a checked-out guest telephone). ○ DIDRETRIEVE (specifying the sequence of DTMF digits signaling a retrieval of messages from a checked-in guest telephone). ○ NOANSWER (specifying the sequence of DTMF digits signaling a coverage call redirected from an unanswered guest telephone). <p>Click Add to submit the form.</p> <div data-bbox="282 1140 1461 1524">  </div>

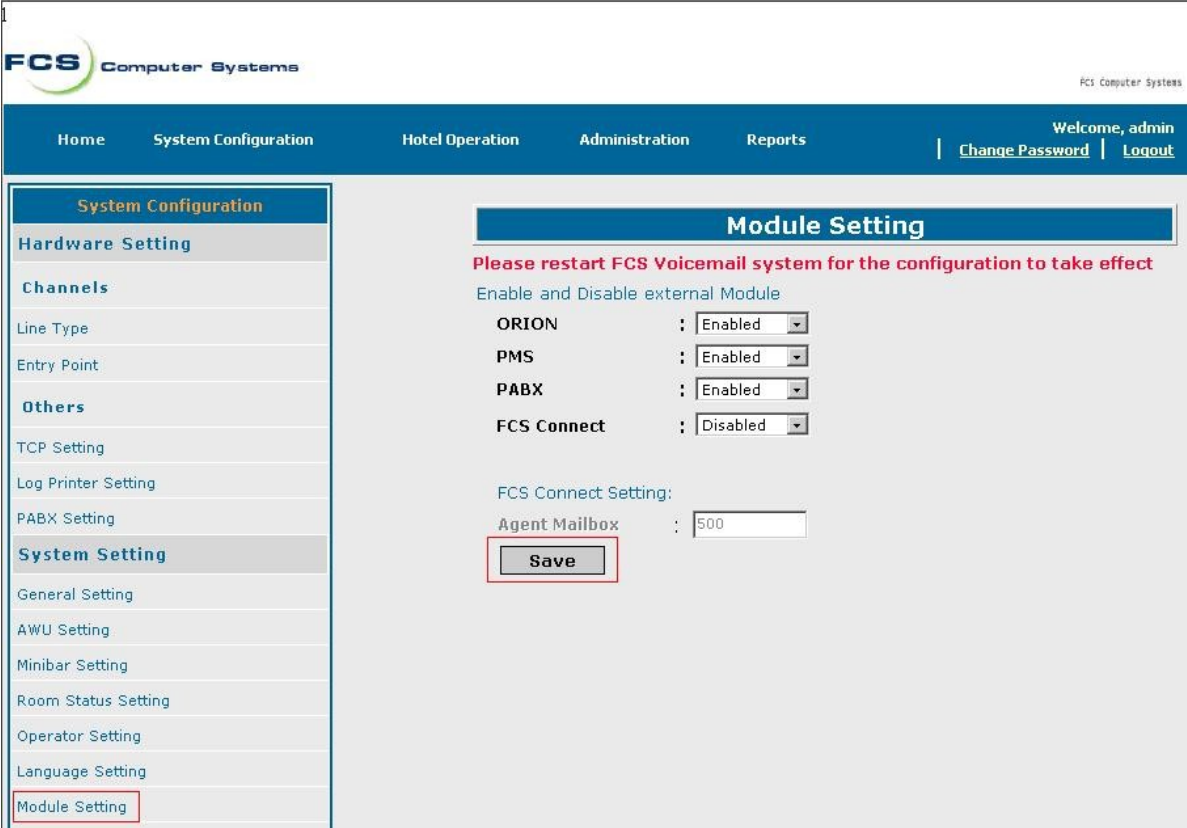
Step	Description
12.	<p>Repeat Step 11 to enter the entry points corresponding to all of the expected types of incoming calls. The resultant table of entry points is shown below.</p> 

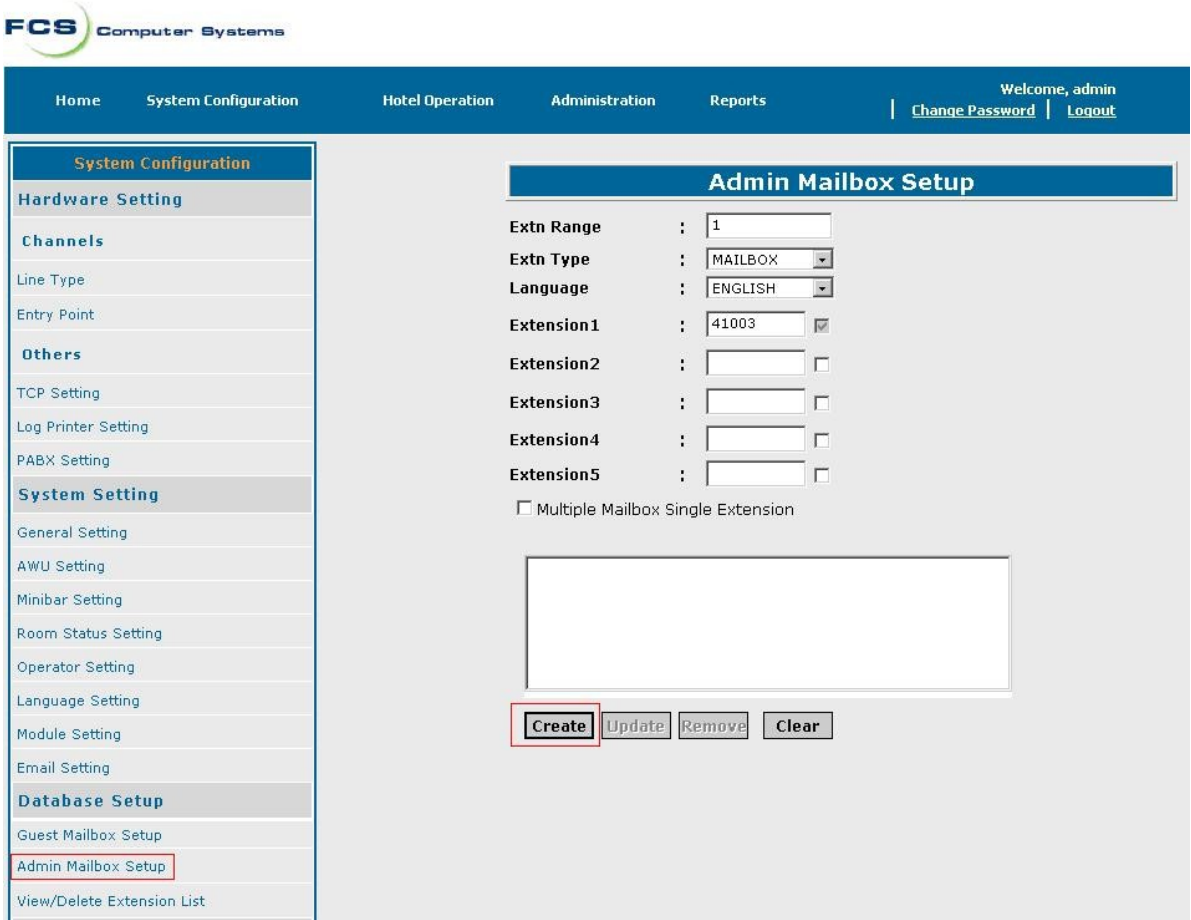
Step	Description
13.	<p><i>Set parameters for receiving Called Party ID (CPI) on incoming calls:</i></p> <p>Select PABX Setting from the System Configuration menu in the left pane. For each of the fields shown, click Edit and enter the following values:</p> <ul style="list-style-type: none"> • CPI Type: Select DTMF (indicating CPI is sent via in-band signaling) from the drop-down menu. • CPI Delay: Leave the default for this field (does not apply to in-band signaling of CPI). <p>Click Save in each case to accept the new value.</p> <p>The resultant PABX Setting is shown below:</p> 

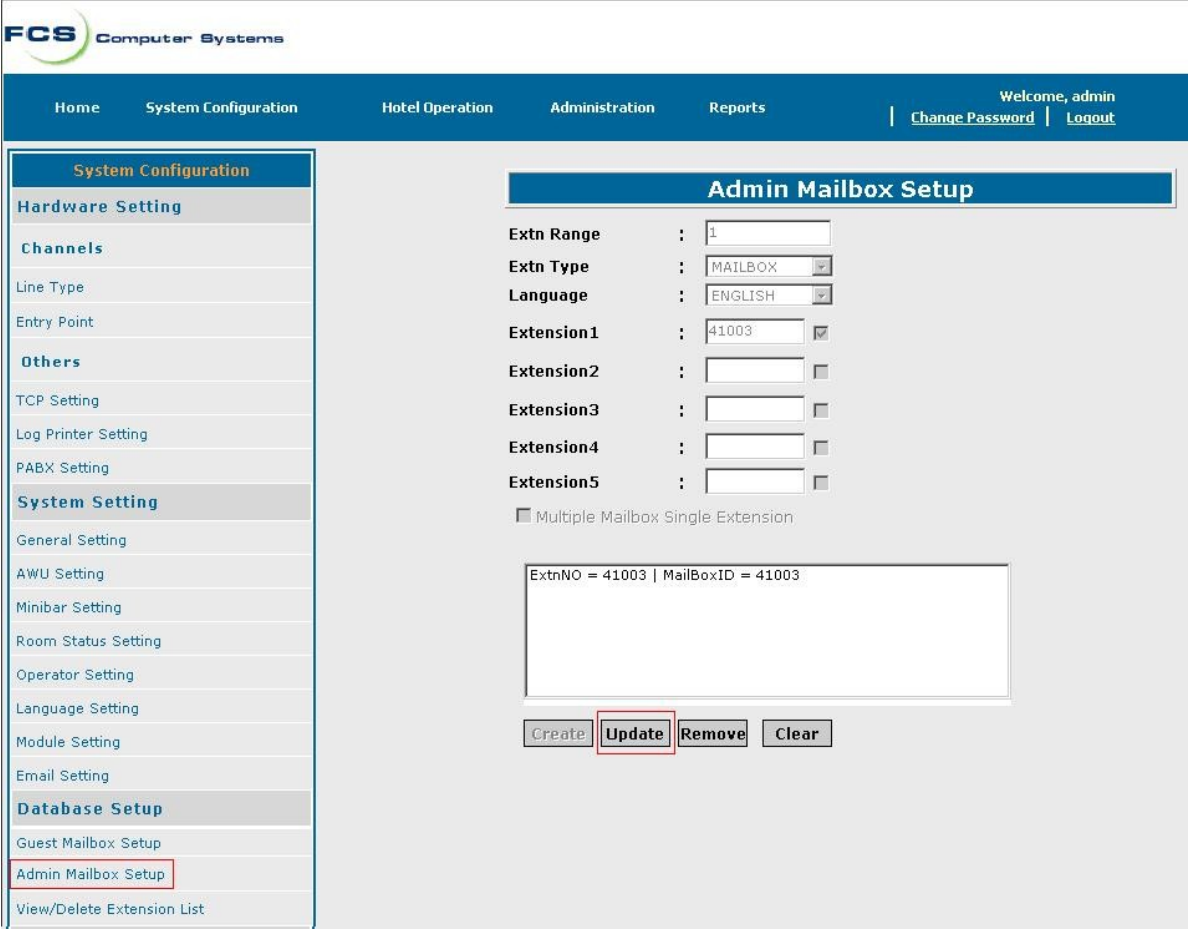
Step	Description
14.	<p><i>Set Message Waiting Lamp control parameters:</i></p> <p>From the System Configuration menu in the left pane, select General Setting. Under the MESSAGE WAITING LAMP section, enter the following values in the fields indicated:</p> <ul style="list-style-type: none"> • Admin: Select DTMF from the drop-down menu. The MWLs on administrator's telephones will be set using DTMF tones over the voice ports to Avaya Communication Manager. OnCode and OffCode are required when DTMF is selected. • Guest: Select DTMF from the drop-down menu. The MWLs on guest telephones will be set using DTMF tones. OnCode and OffCode are required when DTMF is selected. • OnCode: Enter the value for the Leave Word Calling Send A Message FAC administered in Section 4, Step 3 (in this example, *66). • OffCode: Enter the value for the Leave Word Calling Cancel A Message FAC administered in Section 4, Step 3 (in this example, *67). <p>Click Update to submit the form.</p> <p>The completed screen is shown below.</p> 

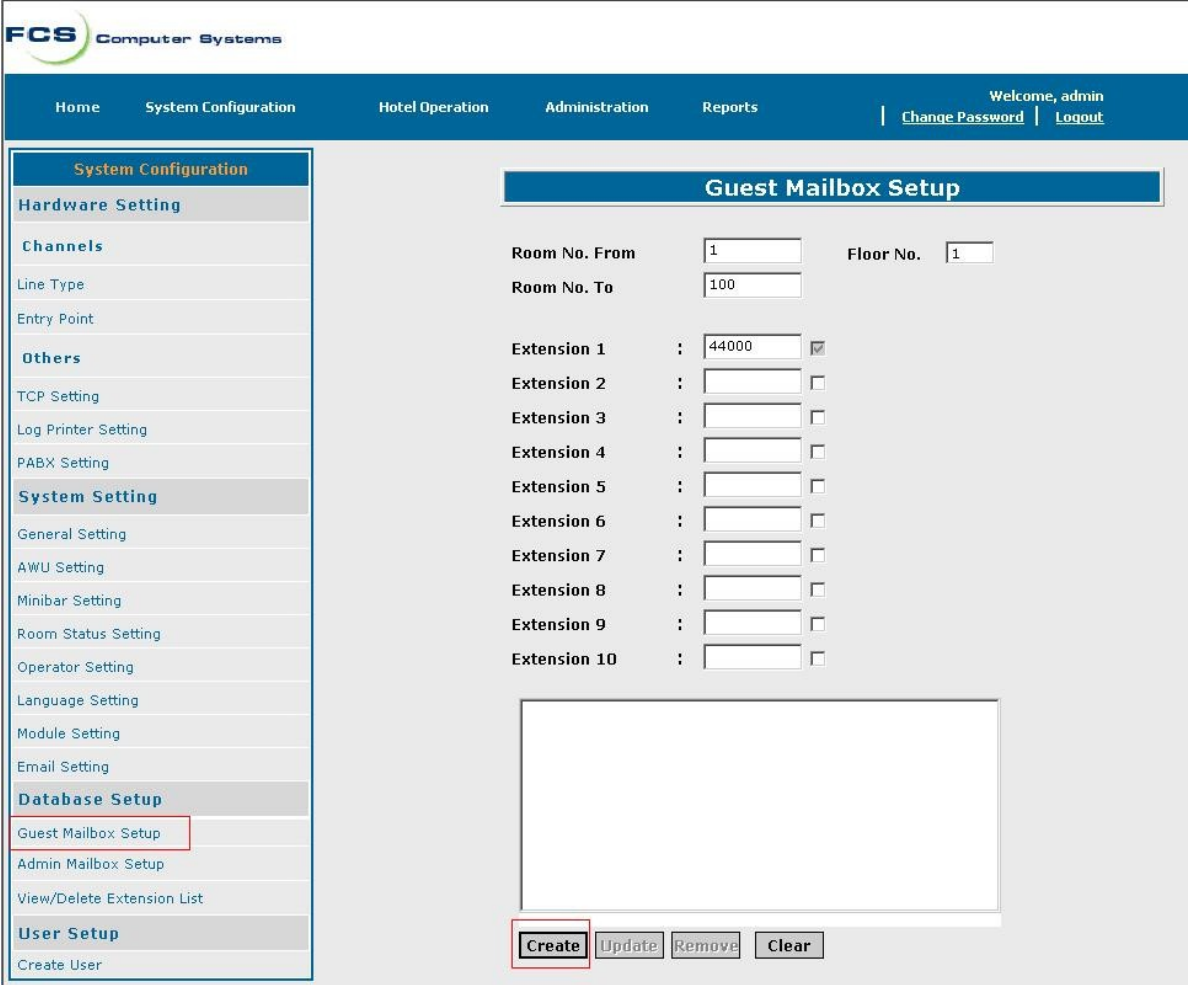
Step	Description
15.	<p><i>Define the hotel operator extensions:</i></p> <p>From the System Configuration menu in the left pane, select Operator Setting. Enter the station extensions in Avaya Communication Manager that correspond to the Day Operator, Night Operator and Message Desk, respectively. FCS VoiceMail application will transfer the call the appropriate extension number configured in the Operator Settings. Click Save to submit the form.</p> 

Step	Description
16.	<p><i>Define AWU Settings:</i></p> <p>From the System Configuration menu in the left pane, select AWU Setting. Enter the station extensions in Avaya Communication Manager that correspond to the AWU Operator. Accept default values for other fields. Click Save to submit the form.</p> 

Step	Description
17.	<p><i>Define Module Settings:</i></p> <p>From the System Configuration menu in the left pane, select Module Setting. Enable ORION, PMS and PABX interfaces. Click Save to submit the form.</p>  <p>The screenshot displays the FCS Computer Systems web application. The top navigation bar includes links for Home, System Configuration, Hotel Operation, Administration, and Reports. The left sidebar is titled 'System Configuration' and lists various settings categories: Hardware Setting, Channels, Others, TCP Setting, Log Printer Setting, PABX Setting, System Setting, General Setting, AWU Setting, Minibar Setting, Room Status Setting, Operator Setting, Language Setting, and Module Setting. The 'Module Setting' option is highlighted. The main content area is titled 'Module Setting' and contains a red warning message: 'Please restart FCS Voicemail system for the configuration to take effect'. Below this, there is a section 'Enable and Disable external Module' with four dropdown menus: ORION (set to Enabled), PMS (set to Enabled), PABX (set to Enabled), and FCS Connect (set to Disabled). Further down, there is an 'FCS Connect Setting' section with a label 'Agent Mailbox' and a text input field containing the value '500'. A 'Save' button is located at the bottom of this section.</p>

Step	Description
18.	<p><i>Create administrator mailboxes:</i></p> <p>From the System Configuration menu in the left pane, select Admin Mailbox Setup. Populate the fields in the form as follows:</p> <ul style="list-style-type: none"> • Extn Range: Enter a range indicating the number of mailbox extensions to be created by this instance of the form (in this case, 1). • Extn Type: Select MAILBOX from the drop-down menu. • Language: Select the appropriate language to be used to provide user prompts (in this case, ENGLISH). • Extension1-Extension5: Enter up to 5 mailbox extensions. • Multiple Mailbox Single Extension: Check this box if a single administrator station will have multiple mailboxes associated with it. <p>Click Create to submit the form.</p> 

Step	Description
19.	<p>Click the Create button will create the specified admin mailboxes. A list of ExtnNO MailBoxID pairs corresponding to the created mailboxes is displayed in the text box. Click on Update button to complete the action.</p> 
20.	<p>Repeat Step 18 and 19 until all administrator mailboxes have been created.</p>

Step	Description
21.	<p><i>Add guest mailboxes:</i></p> <p>From the System Configuration menu in the left pane, select Guest Mailbox Setup. Populate the fields in the form as follows:</p> <ul style="list-style-type: none"> • Room No. From, Room No. To: Enter a range of room numbers to be matched in sequence with the extensions administered in the Extension fields below (up to 10 at a time). • Floor No.: Enter the floor in the hotel where the indicated range of rooms is located. • Extension 1-Extension 10: Enter the extension numbers of the guest telephones in the rooms falling in the range specified above. <p>Click Create to submit the form.</p> 

Step	Description
22.	Click on the Create button to create the specified guest mailboxes. A list of RoomNO ExtnNO pairs corresponding to the created mailboxes is displayed in the text box. Click on Update button to complete the action.
23.	Repeat Steps 21 and 22 until mailboxes have been created for all guest extensions.
24.	To view a list of all mailboxes that have been created, select View/Delete Extension List from the System Configuration menu in the left pane. An example from the test configuration is shown below.

FCS Computer Systems

Home System Configuration Hotel Operation Administration Reports Welcome, admin | [Change Password](#) | [Logout](#)

System Configuration

- Hardware Setting
- Channels
- Line Type
- Entry Point
- Others
- TCP Setting
- Log Printer Setting
- PABX Setting
- System Setting**
 - General Setting
 - AWU Setting
 - Minibar Setting
 - Room Status Setting
 - Operator Setting
 - Language Setting
 - Module Setting
 - Email Setting
 - Database Setup**
 - Guest Mailbox Setup
 - Admin Mailbox Setup
 - View/Delete Extension List**
 - User Setup**
 - Create User

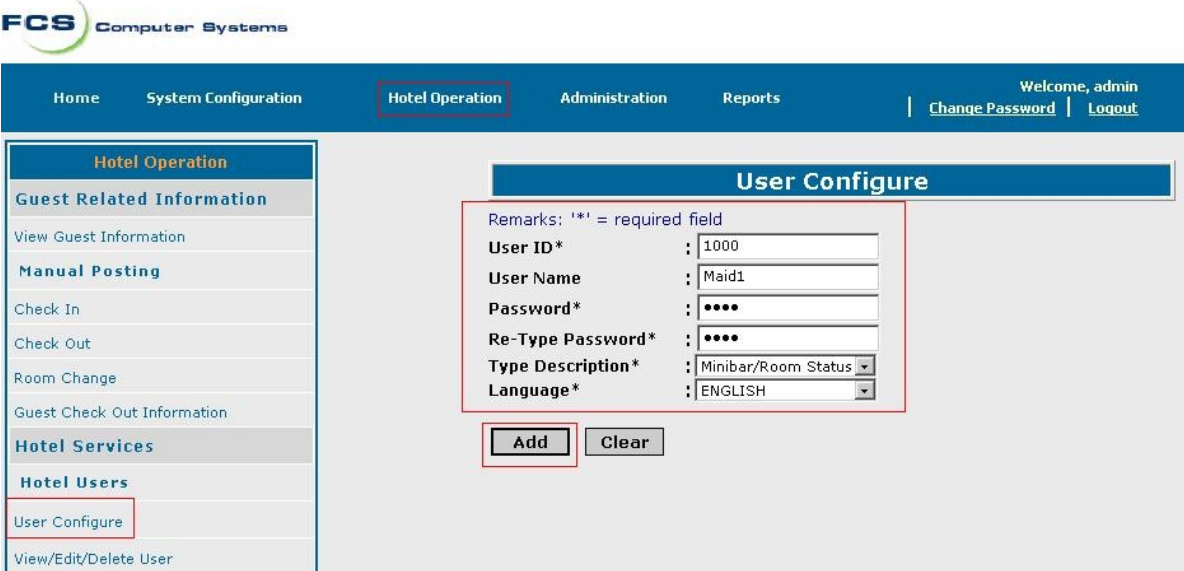
View/Delete Extension List

☒ All
☐ Guest
☐ Admin

Room No

Extension No

	Room No	Extension No	Extension Type	Status
<input type="checkbox"/>	NULL	41003	Admin Mailbox	Active
<input type="checkbox"/>	NULL	41103	Admin Mailbox	Active
<input type="checkbox"/>	NULL	41500	Admin Mailbox	Active
<input checked="" type="checkbox"/>	44000	44000	Guest Mailbox	In use
<input type="checkbox"/>	44001	44001	Guest Mailbox	Not in use
<input checked="" type="checkbox"/>	44002	44002	Guest Mailbox	In use
<input type="checkbox"/>	44003	44003	Guest Mailbox	Not in use
<input checked="" type="checkbox"/>	44004	44004	Guest Mailbox	In use
<input type="checkbox"/>	44005	44005	Guest Mailbox	Not in use
<input type="checkbox"/>	44006	44006	Guest Mailbox	Not in use
<input type="checkbox"/>	44007	44007	Guest Mailbox	Not in use
<input type="checkbox"/>	44008	44008	Guest Mailbox	Not in use
<input type="checkbox"/>	44009	44009	Guest Mailbox	Not in use
<input checked="" type="checkbox"/>	44010	44010	Guest Mailbox	In use
<input checked="" type="checkbox"/>	44011	44011	Guest Mailbox	In use
<input checked="" type="checkbox"/>	44012	44012	Guest Mailbox	In use
<input checked="" type="checkbox"/>	44013	44013	Guest Mailbox	In use

Step	Description
25.	<p><i>Configure Users:</i></p> <p>In the Hotel Operation, select User Configure and enter the following values:</p> <ul style="list-style-type: none"> • User ID: Enter a numeric user ID. • User Name: Enter a descriptive user name. • Password: Enter a numeric password. • Re-Type Password: Re-enter the same password from above. • Type Description: Select Minibar/Room Status from the drop-down. • Language: Select the language to be provided by FCS VoiceMail in prompts to the user (in this example, ENGLISH). <p>Click Add to submit the form.</p> <hr/> 

Step	Description
26.	<p><i>Administer Priority Calling Access Code in FCS VoiceMail AWU.txt file:</i></p> <p>The Auto-Wake-Up calls from the FCS VoiceMail will be delivered to the guest room phones as priority calls.</p> <p>On the FCS VoiceMail server, open the C:\FCS VoiceMail\FlowScript\AWU.txt file.</p> <p>Enter the feature-access-code administered in Avaya Communication Section 4, Step 9 as shown below for objChn.makeCall.</p> <pre> '###IF MAKECALL SUCCESS### If objChn.makeCall("*68" & extNum,15) = objChn.LINECALLSTATE_CONNECTED Then objChn.insertAWUStatus extNum, AWUTime, MaxAttempt, Attempt, SetID, ANSWER </pre>

6. General Test Approach and Test Results

Feature functionality testing was performed manually.

Few observations were made during testing which are noted below:

1. FCS VoiceMail requires board level parameters adjustments for Intel Dialogic card and “disconnect tones” configurations in the FCS PABX tool. Please contact FCS team to get these configurations. If the card is not tuned properly, the calls to the VoiceMail Server will disconnect. The incorrect disconnect tones will impact the MWL interactions.
2. An Admin user cannot send messages to multiple mailboxes by using the <extension no> # format.
3. Disconnecting the analog facilities from FCS Voice Mail, does not update the line status in Voice Mail system and continues to show “Ready” as the line status.

7. Verification Steps

This section describes steps that may be used to verify the configuration.

Step	Description
1.	Call the FCS VoiceMail hunt group extension from a checked-in guest telephone. Verify that an announcement summarizing the number of messages in the associated guest mailbox is played, without the need for entering a mailbox extension or password.

Step	Description
2.	Call the FCS VoiceMail hunt group extension from a checked-out guest telephone. Verify that the caller is not able to leave a message for the guest and is transferred to the operator.
3.	From a checked-in guest telephone using the feature menu, setup an AWU call. Verify that the AWU call is launched to the guest telephone at the appropriate time.
4.	From a checked-in guest telephone, dial the extension of an FCS VoiceMail port that supports Minibar and Room Status updates. Follow the prompts to submit Minibar charges and Room Status changes. Verify using FCS WinSuite that the data are posted accurately.

8. Conclusion

These Application Notes describe the procedures for configuring FCS VoiceMail to interoperate with Avaya Communication Manager. All interoperability compliance test cases executed against such a configuration were completed successfully.

9. Terminology

AWU	Auto Wake-UP
DND	Do Not Disturb
FAC	Feature Access Code
MWL	Message Waiting Lamp
PMS	Property Management System
SES	SIP Enablement Services

10. Additional References

1. "Administration for Network Connectivity for Avaya Communication Manager," Document ID 555-233-504
2. "Application Notes for FCS WinSuite with Avaya Communication Manager"
3. "Application Notes for Teledex iPhone and Avaya Communication Manager and Avaya SIP Enablement Services"
4. "Application Notes for Teledex iPhone Hybrid HD6200 and Avaya Communication Manager".

Additional product documentation may be found at the following sites:

- Avaya: <http://support.avaya.com>
- FCS: <http://www.fcscs.com>

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