

Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Frox Communication Atiras 7.3 with Avaya Aura® Communication Manager 6.2 -Issue 1.0

Abstract

These Application Notes describe the configuration steps required for Avaya Aura® Communication Manager and Frox Communications Atiras.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

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SPOC 5/1/2013	©2013 Avaya Inc. All Rights Reserved.	Atiras7_3_CM6_2

1. Introduction

These Application Notes describe the configuration steps to integrate Frox Communications Atiras (Atiras) with Avaya Aura® Communication Manager (CM) and Avaya Aura® Application Enablement Services (AES). The Atiras Plus network management system is an extension to Private Branch Exchange (PBX) systems. Atiras is a modular software package with which can take full advantage of the options offered by the PBX. Atiras simplifies everyday telephone tasks and makes information available which allows optimization of the system management and provisioning. The Atiras functions are divided into modules which may be used individually or combined, as required. Based on Microsoft Windows computer systems, Atiras is able to support and relieve the central office in switching calls, preparing operating data and creating call charge data reports. The client/server structure enables the software components to be installed decentralized on each staff member's PC. The main components are installed on a Windows Server, which is also responsible for the communication with the PBXs. In addition, a Web client enables access to important Atiras functions by using any browser. During compliance testing, only the Atiras Configuration and Attendant Console modules were tested. The Atiras Configuration module enables the user to Add, Change and Delete stations and voice mailboxes on Communication Manager and Avaya Aura® Messaging (AAM). Session Initialization Protocol (SIP) stations can also be administered via the Avaya Aura® System Manager. The Atiras Attendant Console module is a Windows-based server/client system with an integrated central database. The server installation can also be used as a client with single-user systems, a specific server is not required in this case. Access to the various telephone directories can be restricted via user groups. Predefined query filters can also be configured for each user group to automatically control access to certain data. Note: The Attendant Console station must be H.323

2. General Test Approach and Test Results

The general test approach was to configure the Atiras Attendant Console module to communicate to the Communication Manager via the AES) as implemented on a customer site. The Atiras Configuration module was configured to integrate with the Communication Manager and System Manager also as implemented on a customer site. See **Figure 1** for a network diagram. The interoperability compliance test included both feature functionality and serviceability tests.

DevConnect Compliance Testing is conducted jointly by Avaya and DevConnect members. The jointly-defined test plan focuses on exercising APIs and/or standards-based interfaces pertinent to the interoperability of the tested products and their functionalities. DevConnect Compliance Testing is not intended to substitute full product performance or feature testing performed by DevConnect members, nor is it to be construed as an endorsement by Avaya of the suitability or completeness of a DevConnect member's solution.

2.1. Interoperability Compliance Testing

Feature functionality testing included: Atiras Attendant Console module

- Answer internal/external calls
- Calls to internal/external numbers
- Calls using telephone book
- Supervised and unsupervised transfers
- Conference calls

Atiras Configuration module

- Verify synchronization between Atiras and Communication Manager
- Verify synchronization between Atiras and Aura Messaging
- Add/Change/Delete Analog/Digital/IP stations (H323 and SIP)
- Add/Change/Delete Voice mail boxes
- Add/Change/Delete Speed Call lists
- Add/Change/Delete Hunt/Pickup groups
- Schedule jobs

Miscellaneous

- AES disconnect/reconnection
- Restart failed job synchronization

2.2. Test Results

Tests were performed to insure full interoperability between Atiras and the Communication Manager. The tests were all functional in nature and performance testing was not included. All the test cases passed successfully.

2.3. Support

Technical support for Frox Communications products can be found as follows: <u>http://www.frox.com/en/10052/Contact.html</u>

3. Reference Configuration

Figure 1 illustrates the network topology used during compliance testing. The Avaya solution consists of Avaya Aura® Communication Manager, Avaya Aura® System Manager, Avaya Aura® Session Manager, Avaya Application Enablement Services, Avaya Modular Messaging and a G650 Gateway. The Atiras Attendant Console had Computer-telephony Integration (CTI) control of the Attendant station using Telephony Server Application Programming Interface (TSAPI) on the Application Enablement Services. An Avaya 9630G was used as the Attendant station. Inbound and outbound calls to the PSTN were made via a G650 Media Gateway. Avaya 9640G, 9630 (H323), 9630 (SIP) and 2420 (Digital Deskphones were used as endpoints during compliance testing.

There is no configuration required on the Communication Manager or System Manager to interoperate with the Atiras Configuration module other than a Communication and System Manager user.

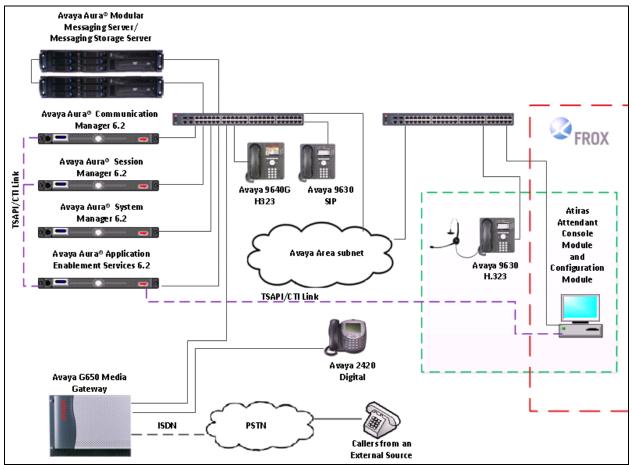


Figure 1: Avaya Aura® Communication Manager and Application Enablement Services Atiras Reference Configuration

4. Equipment and Software Validated

The following equipment and software were used for the sample configuration provided:

Avaya Equipment	Software / Firmware Version
Avaya Aura® Communication Manager	R6.2 Version 06.2-02.0.823.0
running on Avaya S8800 Server	
Avaya Aura® Application Enablement Services	R6.2 Build r6-2-18-0
running on Avaya S8800 Server	
Avaya Aura [®] System Manager running on	R6.2 SP4 Build 6.2.0.0.15669-6.2.12.408
Avaya S8800 Server	Software Update Revision 6.2.16.1.1993
Avaya Aura [®] Session Manager running on	R6.2 Version 6.2.3.0.623006
Avaya S8800 Server	
Avaya Modular Messaging running on S3500	5.2 Patch 8
Servers	MAS - 9.2.150.13
Avaya G650 Media Gateway	
• TN2602AP	HW8 FW61
• TN799DP	HW01 FW040
Avaya Telephones	
• 9640G (SIP)	2.6.84
• 9630G (H323)	S3.1055
• 2420D	6
Frox Communications Equipment	Software / Firmware Version
Atiras running on Windows server 2008 R2	Atiras 7.3
SP1	

5. Configuration of Avaya Aura® Communication Manager

Configuration and verification operations on the Communication Manager illustrated in this section were all performed using Avaya Site Administrator Emulation Mode. The information provided in this section describes the configuration of Communication Manager for this solution. It is implied a working system is already in place including a Communication Manager user for Atiras. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 11**. The configuration operations described in this section can be summarized as follows:

- Create Node Name for the AES
- Create a CTI Link to the AES
- Define the AES Link
- Configure Attendant station
- Add Vector for Atiras Attendant Console
- Configure VDN for Atiras Attendant Console

Note: There is no configuration required on the Communication Manager to interoperate with the Atiras Configuration module other than a Communication Manager user.

5.1. Create Node Name for the AES

A Node Name needs to be created to associate the Communication Manager with the AES. Use the **change node-names ip** command to configure the following: Page **1**

• Name Enter an informative name i.e. aesserver62

• **IP address** Enter the IP address of the **AES** (10.10.16.96)

Press **f3** button to save the new settings.

```
change node-names ip
 Page 1 of 2
                                                          IP NODE NAMES

        Name
        IP Address

        KOFAX
        10.10.16.69

        aesserver62
        10.10.16.96

        calacsy
        10.10.60.51

        10.10.16.31

                           10.10.16.31
 clan
Cms10.10.16.142default0.0.0.0devconiq52all10.10.16.125gateway10.10.16.1medprotn230210.10.16.32procr10.10.16.144
 cmm
                           10.10.16.142
 procr6
sm62fo
                             ::
                            10.10.16.157
 sm62sigint 10.10.16.148
                            10.10.16.101
 tiger
 ( 15 of 15 administered node-names were displayed )
 Use 'list node-names' command to see all the administered node-
 names
 Use 'change node-names ip xxx' to change a node-name 'xxx' or add
 a node-name
```

5.2. Create a CTI Link to the AES

A CTI Link needs to be created to enable the Communiation Manager interoperate with the AES. Use the **add cti-link** command to configure the following: (during compliance testing cti link 1 was added)

Page 1

- **Extension** Enter the extension that will be used to call the Atiras Attendant Console (during compliance testing extension 5899 was used)
- **TYPE** Enter **ADJ-IP**
- Name Enter aesserver62 (as created in Section 5.1)

Press **f3** button to save the new settings.

```
add cti-link 1 Page 1 of 3

CTI LINK

CTI Link: 1

Extension: 5899

Type: ADJ-IP COR: 1

Name: aesserver62
```

5.3. Define the AES Link

To define the AES link use the **change ip-services** command and enter the following: Page **1**

- Type Enter AESVCS
- Enabled Enter y
- Local Node Enter procr
- **Port** Enter **8765**

change ip-services						
Page 1 of	4					
			ΙP	SERVICES		
Service	Enabled	Local		Local	Remote	Remote
Туре		Node		Port	Node	Port
AESVCS	у рі	cocr		8765		
PMS	pı	cocr		0	tiger	5004
CDR1	pı	cocr		0	calacsy	9001

Navigate to **Page 4** and enter the following:

- Server ID Enter 1
- AE Services Enter aesserver62 (The node created in section 5.1)
- **Password** Enter a password. This password will be used in **Section 6.3** to enable the AES to communicate with the Communication Manager.

Press **f3** button to save the new settings.

change ip-servi	ces	A	AE Services Adminis	- 3 -	4	of	4
Server ID	AE	Services Server	Password	Enabled		Sta	atus
1:	ae	esserver62	*	У		in	use

5.4. Configure Attendant Station

The only distinctive requirement which the station to be used as the Attendant Console requires is that it must have 3 **BUTTON ASSIGNMENTS** for call appearances. To add the attendant station use the **change add station** command. The station configured during compliance testing (6001) is shown in the section below.

add station 6001		Page	1	of	5
	STATION				
Extension: 6001	Lock Messages? n			BCC:	0
Type: 9630	Security Code: *			TN:	
	-				
	Coverage Path 1:			COR:	
Name: Extn.6001	Coverage Path 2:			COS:	1
	Hunt-to Station:				
STATION OPTIONS					
	Time of Day Lock Table:				
Loss Group: 19	Personalized Ringi	na Datta	rn	• 1	
1033 GIOUP. 19		ng lacte	- 11 -	• -	
	Message Lamp Ext: 6001				
Speakerphone:	2-way Mute Butto	n Enable	ed?	У	
Display Langua	ge: english Butto	n Module	es:	0	
1 1 5	Survivable GK Node Name:				
Survivable COF	R: internal Media (omplex	Evt	•	
		-			
Survivable Trunk	Dest? y	IP SoftP	non	e: n	
	IP Video? n				
Short/Pref	ixed Registration Allowed:	default			
	Customizable Labels? y				
	Cuscomizable Labels: y				

add station 6001	Page 2 of 5
STA	TION
FEATURE OPTIONS	
LWC Reception: spe Auto	Select Any Idle Appearance? n
LWC Activation? y	Coverage Msg Retrieval? y
LWC Log External Calls? n	Auto Answer: none
CDR Privacy? n	Data Restriction? n
Redirect Notification? y	Idle Appearance Preference? n
Per Button Ring Control? n	Bridged Idle Line Preference? n
Bridged Call Alerting? n	Restrict Last Appearance? y
Active Station	Ringing: single
EMU Login	Allowed? n
H.320 Conversion? n Per Stat	ion CPN - Send Calling Number? y
Service Link Mode: as-needed	EC500 State: enabled
Multimedia Mode: enhanced	Audible Message Waiting? n
MWI Served User Type:	Display Client Redirection? n
AUDIX Name: Sel	ect Last Used Appearance? n
Coverage Afte	r Forwarding? s
Multimedia E	arly Answer? n
Direct IP-IP Aud	lio Connections? y
Emergency Location Ext: 6001 Al	ways Use? n IP Audio Hairpinning? n

add station 6001 3 of 5 Page STATION Conf/Trans on Primary Appearance? n Bridged Appearance Origination Restriction? n Call Appearance Display Format: disp-param-default IP Phone Group ID: Enhanced Callr-Info Display for 1-Line Phones? n ENHANCED CALL FORWARDING Forwarded Destination Active Unconditional For Internal Calls To: n External Calls To: n Busy For Internal Calls To: n External Calls To: n No Reply For Internal Calls To: n External Calls To: n

SAC/CF Override: n

add station 6001	Page	4 of 5
	STATION	
	SITE DATA	
Room:		Headset? n
Jack:		
		Speaker? n
Cable:		Mounting: d
Floor:		Cord Length: 0
Building:		Set Color:
ABBREVIATED DIALING		
List1: enhanced 1	Tiat2. avatom	List3:
LISUI: ennanced I	List2: system	TTRC2:
	personal 1	
BUTTON ASSIGNMENTS		
		~
1: call-appr	5: auto-in	Grp:
2: call-appr	6: aux-work	RC: 1 Grp: 1
3: call-appr	7: aux-work	RC: 3 Grp: 1
4: abrv-dial List: 1 DC:	002 8: after-call	Grp:
		- 1
noi oo moi l		
voice-mail		

add station 6001	STATION	Page	5 of	£5
BUTTON ASSIGNMENTS				
9: 10:				
11:				
12: 13:				
14:				
15: 16:				
17:				
18: 19:				
20:				
21: 22:				
23:				
24:				

5.5. Add Vector for Atiras Attendant Console

To add a vector for the Atiras Attendant use the **add vector** command and enter the following: (Vector 666 was used during compliance testing)

Page 1

- Name Enter an informative name (i.e. **Frox**)
- Line 1 Enter wait-time 2 secs hearing ringback
- Line 2 Enter adjunct routing link 1 (CTI Link configured in Section 5.2)
- Line 3 Enter wait-time 600 secs hearing ringback

Press **f3** button to save the new settings.

```
add vector 666
                                                          1 of
                                                                 6
                                                  Page
                             CALL VECTOR
    Number: 666
                           Name: Frox
Multimedia? y Attendant Vectoring? n Meet-me Conf? n
                                                             Lock? n
Basic? y EAS? y G3V4 Enhanced? y ANI/II-Digits? y ASAI Routing? y
Prompting? y LAI? y G3V4 Adv Route? y CINFO? y BSR? Y Holidays? y
Variables? y 3.0 Enhanced? y
               2 secs hearing ringback
01 wait-time
02 adjunct routing link 1
03 wait-time 600 secs hearing ringback
04
05
06
07
08
09
10
11
12
```

5.6. Configure VDN for Atiras Attendant Console

To add a VDN for the Atiras Attendant use the **add VDN** command and enter the following: (Vector 666 was used during compliance testing)

Page 1

- Name Enter an informative name (i.e. Atirasattendant)
- Destination Section 5.5)

Enter **Vector Number 666** (Vector as configured in

Section 5.5)
Attendant Vectoring?

• Attendant Vectoring? Enter n

Press **f3** button to save the new settings.

```
add vdn 6666
                                                Page
                                                       1 of
                                                              3
                     VECTOR DIRECTORY NUMBER
                         Extension: 6666
                      Name*: Atirasattendant
              Destination: Vector Number
                                                 666
                      Attendant Vectoring? n
                     Meet-me Conferencing? n
                      Allow VDN Override? n
                              COR: 1
                              TN*: 1
                          Measured: none
                 VDN of Origin Annc. Extension*:
                           1st Skill*:
                           2nd Skill*:
                            3rd Skill*:
 Follows VDN Override Rules
```

6. Configuration of Avaya Aura® Application Enablement Services

This section provides the procedures for configuring Avaya Application Enablement Services. It is implied a working AES is already in place and the Security Database (SDB) is configured. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 11**. The configuration operations described in this section can be summarized as follows:

- Logging into Application Enablement Services
- Verify Avaya Application Enablement Services License
- Create a Communication Manager Switch Connection
- Create a TSAPI Link
- Create CTI User
- Configure DMCC Port

6.1. Logging into the Application Enablement Services

To access the OAM web-based interface of the Application Enablement Services Server use the URL <u>http://x.x.x.x</u>, where x. x. x is the selected IP address of AES. The Management console is displayed. Log in using the appropriate credentials.

avaya	Application Enablement Services Management Console	
	Please login here: Username Password Login	Help
	© Copyright © 2009-2010 Avaya Inc. All Rights Reserved.	

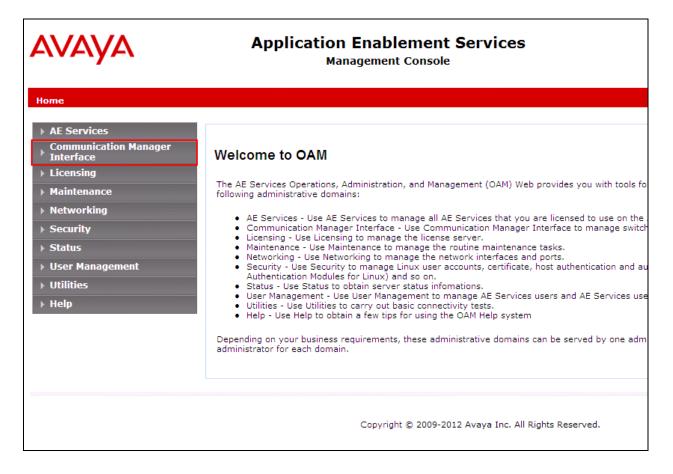
6.2. Verify Avaya Application Enablement Services License

Select **AE Services** on the left pane and verify that the **TSAPI Service** is licensed by ensuring that **TSAPI Service** is in the list of services and that the **License Mode** is showing **NORMAL MODE**.

Αναγα	Application Enablement Services Management Console		Welcome: User craft Last login: Thu Jan 31 14:06:18 2013 fro Number of prior failed login attempts: 0 HostName/IP: aesserver62/10.10.16.96 Server Offer Type: TURNKEY SW Version: r6-2-0.18-0 Server Date and Time: Tue Feb 26 07:47		
AE Services					Home Help Logou
	AE Services IMPORTANT: AE Services must be restarted for Changes to the Security Database do not requir		ake effect.		
▶ SMS	Service	Status	State	License Mode	Cause*
> TSAPI	ASAI Link Manager	N/A	Running	N/A	N/A
▶ TWS	CVLAN Service	ONLINE	Running	NORMAL MODE	N/A
Communication Manager Interface	DLG Service	OFFLINE	Running	N/A	N/A
Licensing	DMCC Service	ONLINE	Running	NORMAL MODE	N/A
Maintenance	TSAPI Service	ONLINE	Running	NORMAL MODE	N/A
	Transport Layer Service	N/A	Running	N/A	N/A
 Networking Security Status User Management Utilities 	For status on actual services, please use <u>Status and</u> * For more detail, please mouse over the Cause, you'll s License Information You are licensed to run Application Enablement (CTI) rele	see the tooltip, or go to help page.			
▶ Help	Convrint @	2009-2012 Avaya Inc. All Rights	Reserved.		

6.3. Create a Communication Manager Switch Connection

A Communication Manager Switch Connection needs to be created to enable the AES to communicate with the Communication Manager. Select **Communication Manager interface**.



Select **Switch Connections** and enter an informative name for Communication Manager (i.e. CM62). Click on the **Add Connection** button.

AVAYA	Application Enablement Services Management Console			
Communication Manager Interfa	ce Switch Connections			
 > AE Services Communication Manager Interface Switch Connections > Dial Plan > Licensing > Maintenance > Networking 	Switch Connections CM62 Add Connection Connection Name Processor Ethernet Edit Connection Edit PE/CLAN IPs Edit H.323 Gatekeeper			
 > Security > Status > User Management > Utilities > Help 				

Once the **Connection Details** window opens enter the **Switch Password** as was configured in **Section 5.3** then **Confirm Switch Password** Click on the **Apply** button.

Αναγα	Application Enablement Services Management Console					
Communication Manager Interface	e Switch Connections					
 AE Services Communication Manager Interface 	Connection Details - CM	62				
Switch Connections	Switch Password]			
Dial Plan	Confirm Switch Password					
LicensingMaintenance	Msg Period SSL	30	Minutes (1 - 72)			
▶ Networking	Processor Ethernet					
▶ Security	Apply Cancel					
► Status						
 User Management Utilities 						
Help						

6.4. Create a TSAPI Link

A TSAPI Link needs to be created to interoperate with the Atiras. Navigate to **AE Services** \rightarrow **TSAPI** \rightarrow **TSAPI Links** and click on the **Add Link** button.

AVAYA	Application Enablement Services Management Console	•
AE Services TSAPI TSAPI Link	5	
▼ AE Services		
▶ CVLAN	TSAPI Links	
▶ DLG	Link Switch Connection	Swi
> DMCC		
▶ SMS		
▼ TSAPI	Add Link Edit Link Delete Link	
TSAPI Links TSAPI Properties		
▶ TWS		
Communication Manager Interface		

Once the Add TSAPI Links window opens enter the following:

- Select CM62 from the Switch Connection dropdown box. (The Switch connection as created in Section 6.3)
- Select 1 from the Switch CTI Link Number dropdown box. (The CTI link as created in Section 5.2)

Click on the **Apply Changes** button.

Αναγα	Application Enablement Services Management Console
AE Services TSAPI TSAPI Link	cs
	•
▼ AE Services	
> CVLAN	Add TSAPI Links
▶ DLG	Link 1 V
▶ DMCC	Switch Connection CM62 V
▶ SMS	Switch CTI Link Number 1 💌
▼ TSAPI	ASAI Link Version 4 🗸
TSAPI Links	Security Unencrypted 💌
 TSAPI Properties 	Apply Changes Cancel Changes
▶ TWS	
Communication Manager	

6.5. Create CTI User

Navigate to User Manager \rightarrow User Admin, then select Add User. On the Add User screen enter the following:

- Enter a **User Id**: in this case **ctiuser**, This ID will be required for the Atiras configuration.
- Enter a **Common Name**: in this case **ctiuser**
- Enter a **Surname:** in this case **ctiuser**
- Enter a User Password: This password will be required for the Atiras configuration.
- Enter the password again for **Confirm Password**
- Select userservice.useradmin from the Avaya Role dropdown box.
- Select **Yes** from the **CT User** dropdown box.

Click **Apply** at the bottom of the screen (not shown below)

User Management User Admin A	Add User	
 AE Services Communication Manager Interface 	Add User	
LicensingMaintenance	Fields marked with * can r * User Id	ctiuser
 Networking Security 	* Common Name * Surname * User Password	ctiuser
▶ Status ▼User Management	* Oser Password * Confirm Password Admin Note	•••••
Service Admin	Admin Note Avaya Role	userservice.useradmin 👻
User Admin Add User Change User Password List All Users	Business Category Car License CM Home Css Home	
 Modify Default Users Search Users Utilities Help 	CT User Department Number Display Name Employee Number	Yes 💌

6.6. Configure DMCC Port

On the AES Management Console navigate to **Networking** \rightarrow **Ports**. In the **DMCC Server Ports** area Enter the **Unencrypted Port** and click on the **Enabled** radio button. During compliance testing, the **Unencrypted Port** was set to **4721**. Click the **Apply Changes** button (not shown) at the bottom of the screen to complete the process.

avaya	Application Enablement Services Management Console				Welcome: User craft Last login: Thu Jul 12 08:40:47 2012 from 192.168.10.104 HostWame/IP: aes1/192.168.10.41 Server Offer Type: VIRTUAL_APPLIANCE SW Version: r6-1-1-30-0
Networking Ports					Home Help Logout
AE Services Communication Manager Interface	Ports				
Licensing	CVLAN Ports			Enabled Disabled	
 Maintenance Networking 		Unencrypted TCP Port	9999	• •	
AE Service IP (Local IP)		Encrypted TCP Port	9998	•	
Network Configure					
Ports	DLG Port	TCP Port	5678		
TCP Settings	TSAPI Ports			Enabled Disabled	
▶ Security		TSAPI Service Port	450	\odot \bigcirc	
▶ Status		Local TLINK Ports			
▶ User Management		TCP Port Min TCP Port Max	1024 1039		
▶ Utilities		Unencrypted TLINK Ports			
→ Help		TCP Port Min	1050		
		TCP Port Max	1065		
		Encrypted TLINK Ports TCP Port Min	1066		
		TCP Port Max	1081		
	DMCC Server Ports			Enabled Disabled	
		Unencrypted Port	4721	\odot \bigcirc	
		Encrypted Port	4722	\odot \bigcirc	
		TR/87 Port	4723	• •	

Note: Although the TSAPI feature is used, the DMCC port is configured.

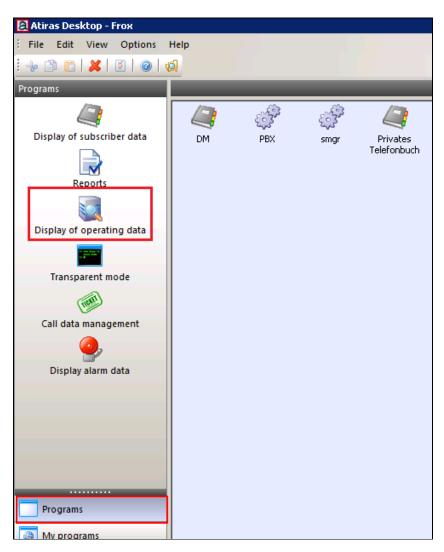
7. Configuration of Atiras Attendant Console module

This section describes the steps preformed to configure the Atiras Attendant Console module. It is implied that the Atiras s Attendant Console module software is already installed and licensed. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 11**. The configuration operations described in this section can be summarized as follows:

- Synchronize VDN and Vector
- Associate Attendant extension with Atiras (Frox) Attendant Console
- Create a Super User for Attendant
- Configuration Atiras Attendant Console
- Configure Atiras Attendant Console to connect to Avaya Application Enablement Services
- Restart the Nms Attendant Console

7.1. Synchronize VDN and Vector

As part of the Atiras Attendant module configuration, the VDN and Vector must first be Synchronized. Navigate to Start \rightarrow All Programs \rightarrow Atiras \rightarrow atiras (not shown) and log in with the appropriate credentials. Once the Atiras Desktop opens, click on the Programs \rightarrow Display of operating data.



Once the **Display of operating data** window opens, navigate to **System objects** \rightarrow **ACM** and select **Telephony functions** \rightarrow **Synchronize**.

💐 Display of opera	ating data	_					
File Edit View He							
🔌 🔊 😰 🛛							
of Desktop			Field	Ор	eration	Value	
Special querie			umber range from				
System objec	ts		umber range to				
		Tel:N	umber numbers				_
	New	•	X name				-
🕀 ᡝ Listen	Telephony function	s ▶	Synchronize				-
🕀 ᡝ 🗊 Eites	Network functions	÷	Call party displ	lay progra	amming		
Jobs –	Transparent mode.		X/internal prefix				
ACM	mansparent mode.		me				_
ACIN	Inventory		me of template pe				_
	Inventory by type		atus of set				_
	Cut		pgram status				- 1
	Сору		st date of synch				
	Paste					1	
Tel – ico	Delete		Tel PBX name		sit	Tel e name	
	Properties						
			-				
•							►
Phone synchronization	٦.						

Once the **Synchronization wizard Selection** window opens, click the **VDN** and **Vector** check boxes followed by the **Next** button.

Selecte	Туре	Descript 🔺	
	AbbreviatedDialingGroup	Abbreviated Dialing Group	All telephone sets
	AbbreviatedDialingPersonal	Abbreviated Dialing Person:	
	AliasStation	AliasStation	All other objects
Γ	Cabinet	Cabinet -	
Γ	CoveragePath	Coverage Path	Accounts
	CoverageAnswerGroup	Coverage Answer Group	
	HuntGroup	Hunt Group	
Γ	PickUpGroup	Pickup Group	
Γ	MediaGateway	Media Gateway	
	NodeNames	Node Names	
	SiteData	Site Data	
•	VDN	Virtual Dial Number(VDN)	
▼	Vector	Vector	
	1408	Telephone set	
	1416	Telephone set	
	1603	Telephone set	
	1608	Telephone set	
	1616	Telephone set	
Γ	16CC	Telephone set	
	2410	Telephone set	
	2420	Telephone set	
	2500	Telephone set	
	4620	Telenhone set	
🗖 On	ıly synchronize new objects		

Once the **Synchronization wizard - Job - ACM** window opens, click on the **Immediate execution** radio button followed by the **Finish** button.

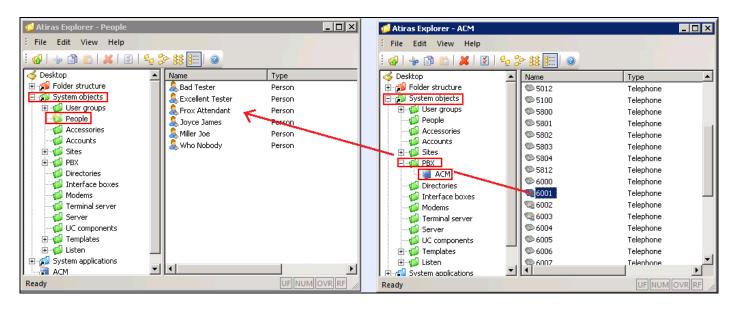
Achronization wize Execution type Immediate exec Batch execution	ution		
Batch execution— © once	on:	17/01/2013 at: 09:24:00	
C repeated	for the first time on: Repeat interval:	17/01/2013 at: 09:24:00 0 00:00:00 [T HH:MM:SS]	
		< Back Finish Cancel Help	p

7.2. Associate Attendant extension with Atiras (Frox) Attendant Console

🗟 Atiras Desktop - Frox File Edit View Options Help ÷ 🗎 ¥. 2 പ X Programs Display of subscriber data DM PBX smo Tel Reports Display of operating data Transparent mode TICAL Call data management Display alarm data

On the **Atiras Desktop**, click on the **Explorer** icon 🖾 two times to open two explorer windows.

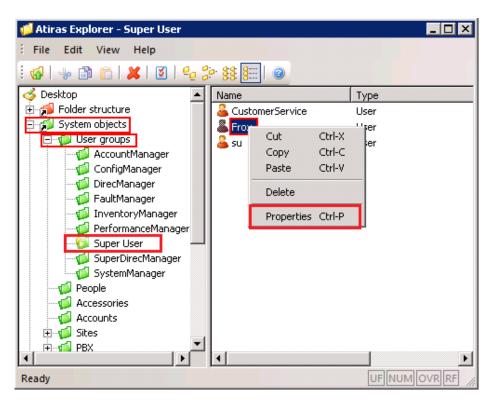
In the first window, navigate to **System objects** \rightarrow **People.** In the second window, navigate to **System objects** \rightarrow **PBX** \rightarrow **ACM**. Drag the extension used for the Attendant console (During compliance testing extension 6001 was used) from the **Atiras Explorer ACM** window to **Frox Attendant** in the **Atiras Explorer People** window.



7.3. Create a Super User for the Attendant

Navigate to **System objects** → **User groups** → **Super User, right-click on** Frox and select **Properties**.

Note: During compliance testing, a Super User was used, a DirectManager user may also be used.



er - Frox				
Settings Refe	erences Information			
User name:	Frox			
User group:	Super User	T]	
Person:			Select	
Language:	English			
Startup interface			1	
System Startup Ober	fläche	•		
Applications to be sta	arted:	Remove all		
Password Validity period:	90 Days			
	90 Days			
Validity period: Password: - Authorized to log in				
Validity period: Password: Authorized to log in				
Validity period: Password: - Authorized to log in				
Validity period: Password: Authorized to log in				

Once the User window opens, select the Settings tab and click on the Select button.

Once the **Select Person** window opens, click on the **Find** button and select **Frox Attendant** followed by the **OK** button.

ilte 'B×	r type: Name	• •	Filter: People:	[[A		Find
ele	ect person:						
	Name 🔺	Surname	First name		End User:User ID	End User:Last Name	End User:First Name
	Bad Tester	Bad	Tester				
	Excellent Tester	Excellent	Tester				
۲	Frox Attendant	Frox	Attendant				
	Joyce James	Joyce	James				
	Miller Joe	Miller	Joe				
	Who Nobody	Who	Nobody				
					New	Edit	IK Cancel

7.4. Configuration Atiras Attendant Console

From the Atiras Desktop window, select Configuration



Once the Attendant settings window opens, select New.

Attendant settings	×
Overview Froxtesting	
Attendant Console	
Froxtesting	
New Edit Remove	

After clicking the **New** button, a **New attendant console** appears in the **Attendant Console** window, click on the **Edit** button.

Attendant settings
Overview Froxtesting New attendant console
Attendant Console
Froxtesting
New attendant console
New Edit Remove

When the next window opens, enter an informative name (i.e. Frox) in the **Name** box. Select **ACM** and click on left arrow (<<) to move it into **Participating PBXs**. Click on the **New** button.

ndant settings Overview Froxtesting 🔀 Frox					
lame: Frox		L Active			
Main number		Name			
New Edit Remove		Participating PBXs	Public holidays		
Queue Time before transition to next priority level: Recall after: 30		Pbx	ACM		
The call is considered to be 30	s		>>>		
Call on hold Threshold 1 (t1)	s	1			
Threshold 2 (t2) 40	s				
Text messages for notifications:					
No. German Fr	ench	Italian	English		
N 1 55 1 5	1				
New Edit Remove					
		Ok	Cancel Apply Help		

Once the **New main number** windows opens, select **6666 'Atirasattendant' (ACM)** (configured in **Section 5.6**) Select **Frox Attendant** and click on left arrow (<<) to move it into **Select attendant** pane Click on the **OK** button.

ew main number											
Main number: 6666 'Atirasattendant' (ACM)											
Name: Frox			Frox								
Selec	ot atter	ndant:	,								
	Attendant Phone set				Group		Ī	Frox Attend	dant		
						Group			Bad Tester Excellent Tester Frox Attendant Joyce James Miller Joe Who Nobody		
Busir	ness ha	ours:									
	WT	von	Ziel	bis	Mittagsziel	von	Ziel		bis	Nachtziel	
	Mon	08:00		12:00		13:30			17:00		
	Tu	08:00		12:00		13:30			17:00		
	Wed	08:00		12:00		13:30			17:00		
	Th	08:00		12:00		13:30			17:00		
	Fri	08:00		12:00		13:30			17:00		
	Sat	08:00		12:00		13:30			17:00		
	Sun	08:00		12:00		13:30			17:00		
Ma	iority:		ve priority:	3 3 2	Calls						
	ome te	ext:									
								OK	Cancel	Accept	
eady											

7.5. Configure Atiras Attendant Console to connect to Avaya Application Enablement Services

To configure Atiras Attendant to connect to Avaya Application Enablement Services, navigate to **System objects** \rightarrow **PBX**. Right-click on **ACM** and select **Properties (not shown)**.

💋 Atiras Explorer - PBX		
File Edit View Help		
i 🐼 i 😼 🗈 💼 i 🗶 i 🗵 i 😜	en 19 19 19 19 19 19 19 19 19 19 19 19 19	
od Desktop	Name	Туре
🗄 📬 Folder structure	acm 🥃	Avaya Aura CM
🖻 💋 System objects		
i ⊡		
People		
Directories		
🥌 📬 Terminal server		
Server		
UC components		
🗄 👘 🏹 Templates		
i isten		
Gystem applications ACM	-	Þ
Ready		UF NUM OVR RF

Once the Avaya Aura CM window opens, select the Telephony tab and enter the following:

• Switch Connect Name: Enter the Communication Manager as configured in **Section 6.3** (CM62)

• **DMCC** server port: Enter the DMCC port as configured in Section 6.6 (4721) Click on the User name / Password... button.

Avaya Aura CM - ACM					×
Settings Net	work	Other Settings	Configuration	System Data	Gateways
Telephony		Site	References	1	Information
CTI settings on AES					
CTI application user:			User name / <u>P</u> assword	d	
Switch Connection Name:		CM62			
DMCC server port (unencry	oted):	4721			
AES Protocol Version:		6.1		<u></u>	
	-				
CDR Account Code Acces: Charge):	s Code (for	*43			
energe).					

Once the User name/password window opens, enter the following:

• Enter user name:

Enter the CTI User as configured in **Section 6.5** (ctiuser)

- Enter new password:
- Confirm new password

Enter the CTI user password as configured in Section 6.5 Confirm the password

Click on the **OK** button.

User name/password	×
Enter user name:	ctiuser
Enter new password:	*******
Confirm new password:	*******
ОК	Cancel Help

Click the **Ok** button

Ayaya Aura CM - ACM			×
Settings Network Telephony	Other Settings Configura Site Refe	ation System Da	ata Gateways Information
CTI settings on AES CTI application user: Switch Connection Name: DMCC server port (unencrypted): AES Protocol Version: CDR Account Code Access Code (for Charge):	User name / CM62 4721 6.1		
Ready	Ok	Cancel	Apply Help

7.6. Restart the Nms Attendant Console

Once the Atiras Attendant is configured, the Nms Attendant Console must be restarted. To restart the Nms Attendant Console, go to Start \rightarrow Run and enter services.msc. Once the services window opens, right click on Nms Attendant Console and select Restart. Note: The Startup type for Nms Attendant Console should be set to Automatic.

🔍 Services							
File Action View Help							
Services (Local)	rvices (Local)						
NmsAtte	endantConsoleWinService	Name 🔺	Description	Status	Startup Type	Log On As	
		McAfee Validation T	Provides v	Started	Automatic	Local System	
Stop the s		🔍 🎑 Microsoft .NET Fra	Microsoft		Manual	Local System	
Restart th	ne service	Microsoft .NET Fra	Microsoft		Manual	Local System	
		🔍 🎑 Microsoft Fibre Cha	. Registers t		Manual	Local Service	
Description		🔍 🎑 Microsoft iSCSI Initi	. Manages I		Manual	Local System	
Hosts the Service.	Nms Attendant Console	🔍 Microsoft Software	Manages s		Manual	Local System	
Service.		🔍 Multimedia Class Sc	. Enables rel		Manual	Local System	
		🤹 Net. Msmg Listener	. Receives a		Disabled	Network S	
		🎑 Net.Pipe Listener A	. Receives a	Started	Automatic	Local Service	
		🔍 🎑 Net. Tcp Listener A	Receives a	Started	Automatic	Local Service	
		🔍 Net. Tcp Port Sharin	Provides a	Started	Manual	Local Service	
		🎑 Netlogon	Maintains a		Manual	Local System	
		🔍 Network Access Pr	The Netwo		Manual	Network S	
		Network Connections	Manages o	Started	Manual	Local System	
		🤹 Network List Service	Identifies t	Started	Manual	Local Service	
		🔍 Network Location A	. Collects an	Started	Automatic	Network S	
		🧟 Network Store Inte	. This servic	Started	Automatic	Local Service	
		🎑 NmsAlarmComm	Handles N		Manual	.\atirassy	
		👰 NmsAttendant Conc		Started	Automatic	.\atirassy	
		NmsCallAutho Sta	1.1	Started	Manual	.\atirassy	
		🔍 NmsTaskMana Sto		Started	Automatic	.\atirassy	
		🔍 NmsWsApiWir 🛛 📍			Automatic	.\atirassy	
		UDJY AIMS Ser	sume		Manual	.\atirassy	
		🔍 Objy Lock Ser 📃 🤼 Res	start	Started	Automatic	.\atirassy	
		Performance (All	Tasks 🕨 😶		Manual	Local Service	-
	d 🖌 Standard /		fresh				
Stop and Start service NmsAttendant	tConsoleWinService on Local Cor	mputer					

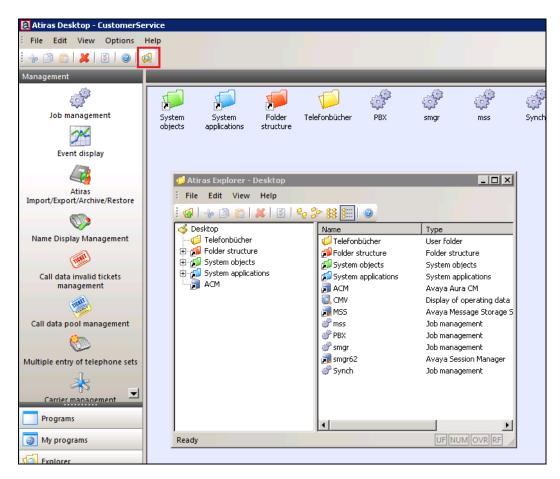
8. Configuration Atiras Configuration module

This section describes the steps preformed to configure the Atiras Configuration module. It is implied that the Atiras Configuration module software is already installed and licensed. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 10**. The configuration operations described in this section can be summarized as follows:

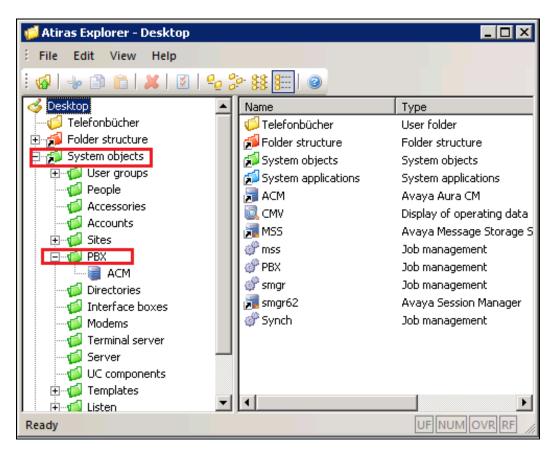
- Configure Communication Manager
- Synchronize Telephony functions
- Configure Session Manager
- Synchronize Session Manager
- Configure Atiras for Avaya Message Storage Server
- Synchronize Avaya Message Storage Server

8.1. Configure Avaya Aura Communication Manager

Navigate to Start \rightarrow All Programs \rightarrow Atiras \rightarrow atiras (not shown) and log in with the appropriate credentials. Once the Atiras Desktop opens click on the Explorer icon \square .



When the **Atiras Explorer** window opens, navigate to **System objects**→ **PBX**.



_ 🗆 🗵 💋 Atiras Explorer - PBX File Edit View Help 🗶 | 🗵 | 💁 🐎 👫 ŝ **1** -**A** osktop 💰 Name ٠ Туре 🍯 Telefonbücher 🗐 ACM Avaya Aura CM Ender structure 🗄 👘 💋 User groups 🚽 People 🐗 Accessories 💋 Accounts 🗄 👘 🍯 Sites 🚊 -- 📁 🎦 Þ Avaya Aura CM New 🍯 Di Avaya CS1000 Inventory 🍯 In Inventory by PBX 💋 M 🥑 Te Inventory by type 🤞 Se Inventory by type for each PBX - 🚺 U(🗄 👘 🚺 Te Cut Ctrl-X b 🗄 🚮 Lis

Ctrl-C

Ctrl-V

Ctrl-P

Right-click on **PBX** and select **New** \rightarrow **Avaya Aura CM**.

3

X

Copy

Paste

Delete

Properties

٠

UF NUM OVR RF

Once the Avaya Aura CM window opens click on the Settings tab and enter the following;

- Name Enter a informative name for Communication Manager (i.e. ACM)
- Name of the ACM within System Manager Enter CM62 as was created in Section 6.3
- Click the **Switch on CM** check box
- ACM Enter the IP address of Communication Manager (10.10.16.142)
- AES Enter the IP address of AES (10.10.16.96)

Click on the User name / Password button

aya Aura CM - ACM				
Telephony	Site	References	Í	Information
Settings Network	Other Settings	Configuration	System Data	Gateways
Category:	Avaya Aura CM	7		
Name:	ACM			
Name of the ACM within System Manager:	CM62			
🔽 Switch on CM				
Switch on AM				
IP addresses/host names				
ACM:	10.10.16.142		User name / Pass	word
AES:	10.10.16.96			
CMM:				
SES:				
Utility Server:				
VSP:				
MIB description file (separate files with ;);	G3-AVAYA-MIB.ini MIB description	management	1	
AES Version:	6.1	•		
Synchronized ACM version:	R016x.02.0.823.0			
		Ok	Cancel App	y Help
ıdy				

In the User name/Password window enter the following:

• Enter user name Enter user ID required to log in to Communication Manager

Confirm the password

- Enter new password Communication Manager

Enter the user password required to log in to the

• Confirm new password Click on the OK button

User name/password	×
Enter user name:	froxem
Enter new password:	
Confirm new password:	
OK	Cancel Help

Click on the **OK** button.

Telephony	Site	References	1	Information
Settings Network	Other Settings	Configuration	l System Data	Gateways
How I			System Data	I Gatemays
lategory:	Avaya Aura CM	~		
lame:	ACM			
lame of the ACM within System Manage	CM62			
Z Switch on CM				
Switch on AM				
IP addresses/host names				
ACM:	10.10.16.142		User name / Pass	word
AES:	10.10.16.96			
CMM:				
SES:				
Utility Server:				
VSP:				
AIB description file (separate files with ;):	,	n management]	
AES Version:	6.1	•		
ynchronized ACM version:	R016x.02.0.823.0			

8.2. Synchronize Telephony functions

Once the Communication Manager is configured it must be synchronized. Right-click on the ACM just configured and select Telephony functions \rightarrow Synchronize.

📁 Atiras Explorer	· - 4	1CM				_ 🗆 🗙
File Edit View	w	Help				
🗄 🚳 👆 🖹 🗎		🗶 🗵 🔩 🎖	0	\$\$ <u></u> }	0	
of Desktop			N	ame		Туре
Telefonbüch				≥5000		Telephone
🗄 🗊 Folder struct		•		5001		Telephone
	System objects System o			≥ 5002		Telephone
				5003		Telephone
				5004		Telephone
				5005		Telephone
🕀 🥡 Sites				5006		Telephone
🖃 👘 PBX	_		S008 5011			Telephone
		N				Telephone Telephone
Directi		New		>		Telephone
Interf		Telephony func	tion	is 🕨		Synchronize
- 🧔 Termir		Network function	ons	•		Call party display programming
🧊 🍯 Server					_	
		Transparent mo	ae			Telephone
H IIII Listen		Inventory				
Phone synchroniz		Inventory by typ	pe			
	6	Cut	(Ctrl-X		
6	3	Сору	(Ctrl-C		
	1	Paste	(Ctrl-V		
ŝ	ĝ,	Delete				
	ž	Properties		Ctrl-P		

Once the **Synchronization wizard Selection** window open click on the **All telephone sets** and **All other objects** buttons followed by the **Next** button.

-		Descript 🔺	
	AbbreviatedDialingGroup	Abbreviated Dialing Group All telephone sets	
	AbbreviatedDialingPersonal	Abbreviated Dialing Person:	
	AliasStation	AliasStation All other objects	
	Cabinet	Cabinet	-
	CoveragePath	Coverage Path Accounts	
	CoverageAnswerGroup	Coverage Answer Group	_
	HuntGroup	Hunt Group	
F	PickUpGroup	Pickup Group	
	MediaGateway	Media Gateway	
	NodeNames	Node Names	
	SiteData	Site Data	
	VDN	Virtual Dial Number(VDN)	
	Vector	Vector	
	1408	Telephone set	
	1416	Telephone set	
	1603	Telephone set	
	1608	Telephone set	
	1616	Telephone set	
	16CC	Telephone set	
	2410	Telephone set	
	2420	Telephone set	
	2500	Telephone set	
•	4620	Telenhone set	

Once the **Synchronization wizard** – **Job- ACM** window opens, click on the **Immediate execution** radio button followed by the **Finish** button.

Execution type Immediate exec Batch execution			
Batch execution — i once	on:	17/01/2013 at: 09:24:00	
C repeated	for the first time on: Repeat interval:	17/01/2013 at: 09:24:00 0 00:00:00 [T HH:MM:SS]	
		< Back Finish Cancel	

8.3. Configure Atiras for Avaya Session Manager

To enable SIP extension configuration by Atiras, right-click on UC components and select New \rightarrow Avaya Session Manager.

Note: Although the SIP extensions are created on Session Manager, the configurations are done via System Manager.

📁 Atiras Explorer - UC co	mpo	nents				
Eile Edit View Help	þ					
i 🕼 🐭 🗈 🛍 🗶	8	e _e	⊳ \$ ₿ ₿∷	0		
 Desktop Telefonbücher Folder structure System objects User groups People Accessories Accounts Sites Sites Directories Interface boxes Modems Terminal server Server UC components 			Name		Туре	
🕀 💋 Templates		<u>N</u> ew		•	Remote device	
in the first the first the first the first term for the first term applications in the first term term term term term term term ter	-}0	<u>C</u> ut		Ctrl-X	Avaya Session Manager	
Ready	ð	<u>С</u> ору		Ctrl-C	Avaya Message Storage Server	_
	â	<u>P</u> aste		Ctrl-V		
	×	<u>D</u> elete	2			
	۲	<u>P</u> rope	rties	Ctrl-P		

Once the **Avaya Session Manager** window opens, click on the **Properties** tab and enter the following;

- Name Enter a informative name for System Manager (i.e. smgr62)
- IP-Addr./Hostname: Enter the Hostname of System Manager (i.e. smgr62.avaya.com)
- Version: Select 6.2 from the dropdown
- **Program:** Check the check box
- **SIP Domain Name:** Enter the Domain that System Manager resides on. (During compliance testing the Domain was Avaya.com)
- Name of the Session-Manager in System-Manager: Enter the Session Manager name. (During compliance testing the Session Manager name was SM62)

Click on the User name / Password button

Avaya Session Manager - smgr62					×
Properties Avaya Users	Avaya Users Templates 🗍 👘 Refer	ences Ir	nformation		
Name:	smgr62				
IP-Addr./Hostname:	smgr62.avaya.com				
Version:	6.2		-		
Program:					
SIP Domain Name:	avaya.com				
Name of the Session-Managers in System-Manager:	SM62				
System Manager.	,				
	User name/pa	issword			
	SSH-Username/	Password			
	Connection	test			
		Ok	Cancel	Apply	Help

In the User name/Password window enter the following:

- Enter user name
- Enter new password

Enter an user ID required to log into System Manager Enter the password required to log into System Manager

• Confirm new password

Click on the **OK** button

sword	Confirm the password		
User name.	password	X	

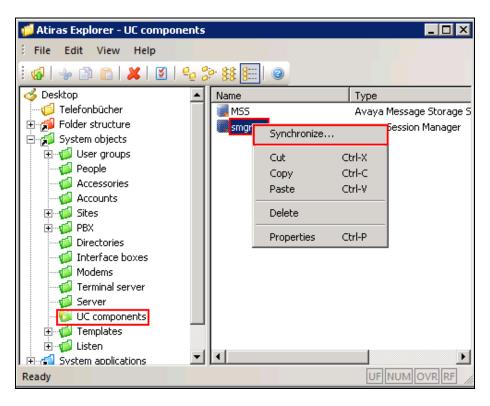
Enter user name:	admin
Enter new password:	
Confirm new password:	
ОК	Cancel Help

Click on the **OK** button.

aya Session Manager - smgr62		2
Properties Avaya Users	Avaya Users Templates References Information	
Name:	smgr62	
IP-Addr./Hostname:	smgr62.avaya.com	
Version:	6.2	
Program:		
SIP Domain Name:	avaya.com	
Name of the Session-Managers in	SM62	
System-Manager:		
	User name/password	
	SSH-Username/Password	
	Connection test	
	Ok Cancel Apply	Help

8.4. Synchronize Session Manager

Once the Avaya Session Manager is configured it must be synchronized. Right-click on Session Manager just configured (smgr62 as configured in **Section 8.3**) and select **Synchronize**.



Once the Avaya Session Manager window opens, click on the **Immediate execution** radio button followed by the **OK** button.

Synchronize Avaya Se	ession Manager			x
Execution type Immediate execut Batch execution	iori			
Batch execution		28/02/2013	at: 08:38:19	
C repeated	on: for the first time on: Repeat interval:	28/02/2013	at: 08:38:19 at: 08:38:19 [T HH:MM:SS]	
		Ok Cance	I Help	

8.5. Configure Atiras for Avaya Message Storage Server

To configure Atiras to enable voicemail box configuration, right-click on UC components and select New \rightarrow Avaya Message Storage Server.

💋 Atiras Explorer - UC co	mponents		_	
Eile Edit View Help	, ,			
i 🐼 🐭 🗈 💼 🗶	🕅 🔤 g	۵ ا 📰 😫 🔄		
Desktop Telefonbücher Folder structure	<u> </u>	Name	Туре	
efi Accounts efi Sites efi PBX				
Directories				
Terminal server				
🕀 👰 Templates	<u>N</u> ew	•	Remote device	
in the first of t	-le Cut	Ctrl-X	Avaya Session Manag	jer
Ready	<u>Сору</u>	Ctrl-C	Avaya Message Stora	ge Server
	Paste			
	× Delet	e		
	Prope	erties Ctrl-P		

Once the **Avaya Message Storage Server** window opens, select the **Properties** tab and enter the following;

- Name: Enter an informative name
- **IP address or host:** Enter the IP address of the Message Storage Server (10.10.16.25)
- **Password** Enter the password of the Message Storage Server

Click on the **OK** button.

Name:	MSS	
IP address or host:	10.10.16.25	
Use SSL encryption:		
Port:	389	Example: 389 ohne SSL, 636 mit SSL
Subscriber basic DN:	ou=People,dc=Avaya	Example: ou=People,dc=Avaya
COS basic DN:	ou=COS,dc=Avaya	Example: ou=COS,dc=Avaya
Customer:	cn=atiras,dc=Avaya	Example: cn=AtirasServer,dc=Avaya
Password:	******	

8.6. Synchronize Avaya Message Storage Server

Once the Avaya Message Storage Server is configured it must be synchronized. Right-click on the Avaya Message Storage Server just configured (MSS as configured in **Section 8.5**) and select **Synchronize**.

💋 Atiras Explorer - UC componen	ts				
File Edit View Help					
🗄 🐼 🐭 🗈 🛅 🖊 💆 😔	20	\$\$ <u>8</u> ::	0		
of Desktop		Jame		Τγ	/pe
		MSS		0.	wawa Message Storage S
🗄 📬 Folder structure		📕 sm	Synchronize		a Session Manager
🖻 💋 System objects			Cut	Ctrl-X	
🕀 👘 User groups			Сору	Ctrl-C	
People			Paste	Ctrl-V	
Accounts		_	Dalaha		_
		_	Delete		_
🕀 🚽 🗃 PBX			Properties	Ctrl-P	
Directories					_
🛒 🕼 Interface boxes					
Terminal server					
Server					
UC components					
🗄 👘 Templates					
⊕ ∯ Listen F⊸∰ System applications	- 4				
Ready					UF NUM OVR RF

Once the Avaya Message Storage Server window opens, click on the **Immediate execution** radio button followed by the **OK** button.

Execution type Execution type C Immediate execution C Batch execution	Message Storage Serv	'er	×
Batch execution	on:	27/02/2013	at: 17:50:57
C repeated	for the first time on: Repeat interval:	27/02/2013 0 00:00:00	at: 17:50:57 [T HH:MM:SS]
		Ok Cance	el Help

9. Verification Steps

This section provides tests that can be performed to verify correct configuration of the Avaya and Frox Communication solution.

9.1. Verify Avaya Aura® Communication Manager CTI Service State

The following steps can ensure that the communication between Communication Manager and the Application Enablement Services server is functioning correctly. Check the AESVCS link status with Application Enablement Services by using the command **status aesvcs cti-link**. The CTI link is 1.Verify the **Service State** of the CTI link is **established**.

status	aesvcs cti-li	nk				
	AE SI	ERVICES	S CTI LINK STA	TUS		
CTI Link	Version	Mnt Busy	AE Services Server	Service State	Msgs Sent	Msgs Rcvd
1	5	no	aes1	established	l 15	15

9.2. Verify Avaya Aura® Application Enablement Services DMCC

The following steps are carried out on the Application Enablement Services to ensure that the communication link between Atiras and the Application Enablement Services server is functioning correctly. Verify the status of the DMCC service by selecting Status \rightarrow Status and Control \rightarrow DMCC Service Summary. The DMCC Service Summary – Session Summary screen is displayed as shown below. It shows a connection to ctiuser and the Far-end Identifier of 10.10.60.55 as expected.

Αναγα	Application Enablement Servi Management Console	Number of prior failed HostName/IP: aesserv Server Offer Type: TU SW Version: r6-2-0-18	rer62/10.10.16.96 RNKEY			
Status Status and Control DMCC	Service Summary					Home Help Logou
 AE Services Communication Manager Interface Licensing Maintenance Networking Security Status Alarm Viewer Logs 	DMCC Service Summary - Session Summary Enable page refresh every 60 v seconds Session Summary Device Summary Generated on Thu Feb 28 08:37:09 GMT 2013 Service Uptime: 42 days, 23 hot Number of Active Sessions: 1 Number of Sessions Created Since Service Boot: 101 Number of Existing Devices: 0 Number of Devices Created Since Service Boot: 23					
Status and Control Status and Control CVLAN Service Summary DLG Services Summary Switch Conn Summary TSAPI Service Summary User Management Utilities Help	Session ID 7B3C90124AAB383CF 0101912BEB22080-121175 Terminate Sessions Show Terminated Sessions Item 1-1 of 1		Application NmsDrvDmcc	Far-end Identifier 10.10.60.55	Connection Type XML Unencrypted	# of Associated Devices
	Copyright © 2009-2012 Avaya	a Inc. All R	lights Reserved	1.		

Note: Although the TSAPI feature is used the DMCC Service is viewed.

9.3. Verify Atiras Attendant Console Extension is Assigned to the Attendant

To verify that the Atiras Attendant Console extension is assigned to the Attendant, from the Atiras Explorer window navigate to **System objects** \rightarrow **People** and right-click on the Attendant and select **properties.** (During compliance testing the Attendant was called **Frox Attendant**).

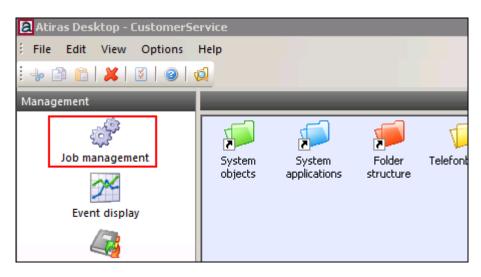
💋 Atiras Explorer - People		
Atiras Explorer - People Eile Edit View Help Desktop Desktop Image: Constructure Folder structure System objects System objects Image: Constructure People Accessories Accounts Image: Constructure Image: Constructure Image: Constructure Image: Constructure <th>Name Bad Tester Excellent Tester Fisch Joel Ford Henri Ford Henri (1) Frox Attendant Joyce James Knuchel Martin Meier Peter Miller Joe</th> <th>Type Person Person Person Person Person Person Person Person Person Person Person</th>	Name Bad Tester Excellent Tester Fisch Joel Ford Henri Ford Henri (1) Frox Attendant Joyce James Knuchel Martin Meier Peter Miller Joe	Type Person Person Person Person Person Person Person Person Person Person Person
Terminal server ✓ Terminal server ✓ Server ✓ UC components ✓ ✓ Templates ✓ ✓ Templates ✓ ✓ Listen ✓ ✓ System applications ✓ ✓ ACM ✓	& Miller Joe (1) Who Nobody	Person Person
Ready		UF NUM OVR RF

Once the **Person** window opens, select the **Telephone Sets** tab, and verify that the Atiras Attendant Console extension is assigned. (During compliance testing, the Atiras Attendant Console extension was 6001.)

	Sites	References	Í	Information		
Settings	Telephone Sets	Accessories	Accounts	Cost Overview	Status	
	Name	Туре	Modified	1		
6001		Standard set type	28/02/2013 14			
				[<u>R</u> emove	
			Ok Can	cel Apply	Help	

9.4. Verify Atiras Configuration Module Synchronization Status

It is possible to verify the synchronization status of the Communication Manager/Session Manager extensions and voicemail boxes between the Avaya solution and the Atiras Configuration module. Navigate to Start \rightarrow All Programs \rightarrow Atiras \rightarrow atiras (not shown) and log in with the appropriate credentials. Once the **Atiras Desktop** opens click on the **Job management** icon on the left side of the window.



Once the **Job management** window opens, select **Synchronize Avaya Session Manager**, **Phone synchronization** or **Synchronize Avaya Message Storage Server** from the **Type** dropdown box and click on the **Start processing** icon.

Note: The screenshot below shows the Synchronize Avaya Message Storage Server.

🔣 Job m	nanagement									
E File B	Edit View H	Help								
i 💕 🔒	1 🕸 😭 1 🤅	🛯 😳 🧟	2 0							
Group:	•	Туре:	Synchronize Ava	ya Message S	itorage Se	erver 🔽	Status:	▼ Ty	ре:	•
Error:		•	User:			•	History:	•	Show	ı all
Ass	soc.object	Status	Successful	Warnings	Error	Progress	Last active	Last success. Item	Owner	Workstation
MSS		done	570	0	0	1 from 1	17/01/2013 09:56:1		Custom	•
MSS		done	568	0	0	1 from 1	15/01/2013 08:38:1		Custom	
MSS		cancelled	0	0	1	0 from 1	15/01/2013 07:08:1		Custom	
MSS		cancelled	0	0	1	0 from 1	14/01/2013 12:51:0		Custom	
MSS		cancelled	0	0	1	0 from 1	14/01/2013 07:28:5		Custom	
MSS		cancelled	0	0	1	0 from 1	14/01/2013 07:30:1		Custom	
•										F
Ready									U	F NUM OVR RF

10. Conclusion

A full and comprehensive set of feature functional test cases were preformed during compliance testing. All test cases passed and met the objectives outlined in **Section 2.2**. Atiras 7.3 is considered compliant with Avaya Aura® Communication Manager.

11. Additional References

These documents form part of the Avaya official technical reference documentation suite. Further information may be had from <u>http://support.avaya.com</u> or from your Avaya representative.

- [1] Administering Avaya Aura® Communication Manager 03-300509 Release 6.0 Issue 6.0 June 2010
- [2] Administering Avaya Aura® Session Manager 03-603324 Release 6.1 Issue 1.1 November 2010
- [3] Administering Avaya Aura® System Manager Release 6.1 Issue 1.1 November 2010
- [4] Avaya Aura® Application Enablement Services Administration and Maintenance Guide Release 6.1 Issue 2 February 2011

Contact Frox Commutations at <u>http://www.frox.com/en/10052/Contact.html</u> for Product Documentation.

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