

Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Avaya Aura® Communication Manager R6.3 and Avaya Aura® Session Manager R6.3 with Kofax Ltd. Communication Server using Transport Layer Security - Issue 1.0

Abstract

These Application Notes describe the configuration steps required for Kofax Communication Server to interoperate with Avaya Aura® Communication Manager R6.3 and Avaya Aura® Session Manager R6.3. Kofax Communication Server communicates with Avaya Aura® Session Manager via Transport Layer Security. This document provides configuration steps related to faxing capabilities of Kofax Communication Server.

Readers should pay attention to section 2, in particular the scope of testing as outlined in Section 2.1 as well as the observations noted in Section 2.2, to ensure that their own use cases are adequately covered by this scope and results.

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.

1. Introduction

These Application Notes describe the configuration used to enable Kofax Communication Server to interoperate with Avaya Aura® Communication Manager and Avaya Aura® Session Manager. Kofax Communication Server offers a variety of telephony features. Kofax Communication Server fax features allow sending/receiving of fax messages to/from both local and PSTN fax endpoints, and can subsequently be printed or archived. During Compliance Testing the fax feature and functionality was the sole focus.

2. General Test Approach and Test results

The general test approach was to simulate the configuration as implemented on a customer premises. Compliance testing was between the Kofax Communication Server (Kofax Server) and Avaya Aura® Communication Manager (Communication Manager), and was performed manually. The tests were all functional in nature, and no performance testing was done. The test method employed can be described as follows:

Communication Manager was configured to support various local IP (H.323) telephones and an Analogue Fax Machine, as well as a SIP connection to Avaya Aura® Session Manager (Session Manager). The Session Manager was configured to connect to both Communication Manager and Kofax Communication Server via SIP trunks using Transport Layer Security (TLS).

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

The following tests were performed as part of the compliance testing:

- Basic fax sending, pass-through mode connection with G.711A and G.711MU codecs
- Basic fax receiving, pass-through mode connection with G.711A and G.711MU codecs
- Forwarding of a fax from a local Fax Machine to the Kofax Server via a local extension
- Forwarding of a fax from the Kofax Server to a local Fax Machine via a local extension
- Verification of correct status and Caller ID for sent and received fax messages
- Verification that Message Waiting Indication is sent to the correct Phone extensions when faxes are received and subsequently turned off when the fax is accessed.
- Successful recovery from network or power failure

2.2. Test Results

Tests were performed to insure full interoperability of a Kofax Communication Server when configured with TLS (using Session Manager). The tests were all functional in nature and performance testing was not included. All the test cases passed successfully.

2.3. Support

3. Support for Kofax Ltd. is available at: http://services.kofax.com/support/Reference Configuration

Figure 1 illustrates the network configuration used during compliance testing. A SIP trunk was configured between the Kofax Communication Server (using TLS) and the Session Manager SIP Signaling interface. A SIP trunk was also configured between Communication Manager and Session Manager (using TLS). An analogue Fax Machine was connected to an MM714 Analog card on the G430 Media Gateway. An Avaya 9620 (H323) telephone was also configured on the communication Manager so as to test Faxes sent to phone extensions which had Call Forward enabled and also to Transfer Faxes to alternative Fax Machines, including to the Kofax Communication Server. An Avaya Aura® System Manager was used to manage the Session Manager.

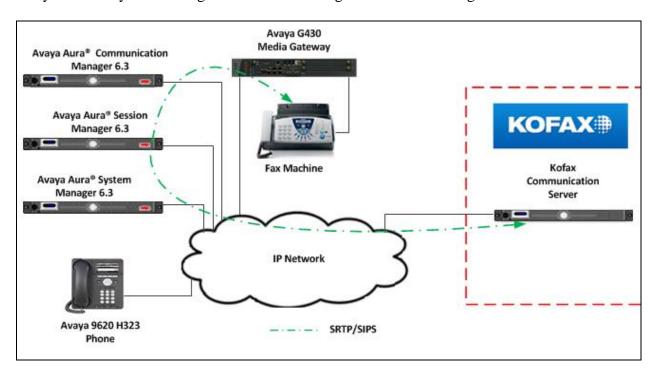


Figure 1: Avaya and Kofax Reference Configuration

4. Equipment and Software Validated

The hardware and associated software used in the compliance testing is listed below.

Avaya Equipment	Software Version	
Avaya Aura® Communication Manager	R6.3	
	Build R016x.03.0.124.0	
Avaya Aura® Session Manager	R6.3.7	
	Software Update 6.3.7.0.637008	
Avaya Aura® System Manager	R6.3.7	
	Build 6.3.0.8.5682-6.3.8.2826	
	Update 6.3.5.52017	
Avaya G430 Media Gateway	Version 36.7.0/1	
Module MM710 (DSP MP20)	Version HW04 FW021	
Module MM714 (ANA)	Version HW03 FW073	
Kofax Equipment	Software Version	
Kofax Communication Server	Version 10.0	
KCS FoIP Application	Version 3.22.05	

Table 1: Hardware and Software Version Numbers

5. Configure 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 the Communication Manager for this solution. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 10**.

It is implied a working system is already in place including the configuration of the Session Manager Node, Trunk Group, Signaling Group and Dial Patterns to communicate with the Session Manager. The configuration operations described in this section can be summarized as follows: (Note: during Compliance Testing all inputs not highlighted in Bold were left as Default)

- Configure Session Manager Node
- Configure Signaling-Group
- Configure Trunk Group
- Configure Fax Station
- Configure Codecs

5.1. Configure Session Manager Node

For the Communication Manager to communicate with the Session Manager a node must be configured. The screen shot below shows **SM63RPSIG** with IP address **10.10.16.214** was used. **Note**: 10.10.16.214 is the IP address of the Session Manager SIP Signaling Interface.

```
        change node-names ip
        IP NODE NAMES

        Name
        IP Address

        AES63RP
        10.10.60.210

        SM63RPSIG
        10.10.16.214

        default
        0.0.0.0

        procr
        10.10.16.211

        procr6
        ::
```

5.2. Configure Signaling Group

A signaling group is required before a trunk-group can be configured. Use the **add signaling-group** command followed by next available signaling-group number to configure the following:

Group Type: Enter SIP
 Transport Method: Enter tls
 Enforce SIPS URI for SRTP Enter n
 Near-end Node Name: Enter procr

• Far-end Node Name: Enter SM63RPSIG (Session Manager Node

as configured in **Section 5.1**)

• Far-end Network Region: Enter the appropriate Network region (i.e.,

1)

• Far End Domain: Enter the appropriate Domain

Configure the remaining inputs as per the screen shots below. Press F3 to save configuration.

```
add signaling-group 1
                                                            Page 1 of
                                                                         2
                               SIGNALING GROUP
Group Number: 1
                             Group Type: sip
 IMS Enabled? n
                       Transport Method: tls
       Q-SIP? n
    IP Video? n
                                                 Enforce SIPS URI for SRTP? n
 Peer Detection Enabled? y Peer Server: SM
Prepend '+' to Outgoing Calling/Alerting/Diverting/Connected Public Numbers? y
Remove '+' from Incoming Called/Calling/Alerting/Diverting/Connected Numbers? n
Alert Incoming SIP Crisis Calls? n
  Near-end Node Name: procr
                                            Far-end Node Name: SM63RPSIG
Near-end Listen Port: 5061
                                         Far-end Listen Port: 5061
                                       Far-end Network Region: 1
Far-end Domain: devconnect.local
                                            Bypass If IP Threshold Exceeded? n
Incoming Dialog Loopbacks: eliminate
                                                   RFC 3389 Comfort Noise? n
        DTMF over IP: rtp-payload
                                            Direct IP-IP Audio Connections? y
Session Establishment Timer(min): 3
                                                      IP Audio Hairpinning? n
        Enable Layer 3 Test? y
                                                Initial IP-IP Direct Media? n
H.323 Station Outgoing Direct Media? n
                                               Alternate Route Timer(sec): 6
```

5.3. Configure Trunk Group

This section describes the Trunk Group configuration used during compliance testing. Use the **add trunk-group** command followed by next available Group number and configure the following:

• **Group Type:** Enter **sip**

• Group Name: Enter an informative name for the trunk (i.e., To SM6.3)

SIP)

• TAC: Enter a TAC number (i.e., 701)

• Service Type: Enter public-ntwrk

• **Signaling Group:** Enter the Signaling Group number as configured in **Section**

5.2

• **Number of Members:** Enter the number of channels required to connect to the

Session Manger (during compliance testing **30** channels

were used)

Page 1

```
add trunk-group 1

Group Number: 1

Group Name: To SM6.3 SIP

Direction: two-way

Dial Access? n

Queue Length: 0

Service Type: public-ntwrk

Auth Code? n

Member Assignment Method: auto

Signaling Group: 1

Number of Members: 30
```

Go to page 3 and enter **private** for **Numbering format**. Press **F3** to save configuration.

```
add trunk-group 1
TRUNK FEATURES
ACA Assignment? n

Measured: none

Maintenance Tests? y

Numbering Format: private

UUI Treatment: service-provider

Replace Restricted Numbers? n
Replace Unavailable Numbers? n

Modify Tandem Calling Number: no

Show ANSWERED BY on Display? y
```

5.4. Configure Fax Station

The Fax Machine is configured as an Analog station **Type 2500** on the Communication Manager and the **Extension** number used was **1026**. The port used was an available port on a MM714 card on the G430 Media Gateway. Use the **add station** command to add the Fax machine. The screen shots below show the configuration used during compliance testing. Press **F3** to save configuration.

1 age 1				
add station 1026	Pa	ge 1 of 4		
	STATION			
Extension: 1026	Lock Messages? n	BCC: 0		
Type: 2500	Security Code: 1026	TN: 1		
Port: 002V301	Coverage Path 1:	COR: 1		
Name: Fax Machine 1026	Coverage Path 2:	cos: 1		
	Hunt-to Station:	Tests? y		
STATION OPTIONS				
XOIP Endpoint type: auto	Time of Day Lock Table:			
Loss Group: 1	Message Waiting Indicat	or: none		
Off Premises Station? n				
Survivable COR: internal				
Survivable Trunk Dest? y				
bulvivable frame best. y	Remote Office Pho	ne? n		
	1.0000 011100 1110			
Passive Signalling Station? n				

Page 2

1 age 2	
add station 1026	Page 2 of 4
	STATION
FEATURE OPTIONS	
LWC Reception: spe	
LWC Activation? y	Coverage Msg Retrieval? y
LWC Log External Calls? n	Auto Answer: none
CDR Privacy? n	Data Restriction? n
Redirect Notification? y	Call Waiting Indication: y
Per Button Ring Control? n	Att. Call Waiting Indication: y
Bridged Call Alerting? n	Distinctive Audible Alert? y
Switchhook Flash? y	Adjunct Supervision? y
Ignore Rotary Digits? n	
H.320 Conversion? n	Per Station CPN - Send Calling Number?
Service Link Mode: as-needed	ì
Multimedia Mode: basic	Audible Message Waiting? n
MWI Served User Type:	
AUDIX Name:	
	Coverage After Forwarding? s
	Multimedia Early Answer? n
	Direct IP-IP Audio Connections? Y
Emergency Location Ext: 1026	IP Audio Hairpinning? n

```
add station 1026
                                                                    3 of
                                                             Page
                                     STATION
  Bridged Appearance Origination Restriction? 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 1026
                                                              Page 4 of 4
                                     STATION
SITE DATA
                                                        Headset? n
      Room:
      Jack:
                                                        Speaker? n
     Cable:
                                                       Mounting: d
                                                    Cord Length: 0
Set Color:
     Floor:
  Building:
ABBREVIATED DIALING
    List1:
                              List2:
                                                         List3:
HOT LINE DESTINATION
        Abbreviated Dialing List Number (From above 1, 2 or 3):
                                                       Dial Code:
     Line Appearance: call-appr
```

5.5. Configure Codecs

All faxes to and from Kofax use Pass-Through. Therefore the **Fax** setting on **Page 2** must be set to **off**. Use the **change ip-codec-set x** command where x is the ip-codec-set being used. Configure the following on page 1:

• Audio Codec (line 1): Enter G.711MU

Silence Suppression: Enter nFrames Per Pkt: Enter 2

• Audio Codec (line 2): Enter G.711A

Silence Suppression: Enter n
 Frames Per Pkt: Enter 2

Media Encryption (line 1): Enter 2-srtp-aescm128-hmac32
 Media Encryption (line 2): Enter 1-srtp-aescm128-hmac80

Notes: The Media Encryption option is only available if **Media Encryption Over IP** is enabled on the installed license. Also the max baud rate is 9600 bits per second.

```
change ip-codec-set 1
                                                      Page 1 of
                      IP CODEC SET
   Codec Set: 1
  Audio
             Silence Frames
                                 Packet
   Codec
             Suppression Per Pkt Size (ms)
            n 2
1: G.711MU
                               20
2: G.711A
                          2
                                  20
3:
4:
5:
6:
   Media Encryption
1: 2-srtp-aescm128-hmac32
2: 1-srtp-aescm128-hmac80
```

On Page 2 enter off for Fax, when the configuration is complete, press F3 to save.

		Page	2 of 2		
IP CODEC SET					
Allow Direct-IP Multimedia? n					
,	_ , ,		Packet		
Mode	Redundancy		Size(ms)		
off	0				
off	0				
US	3				
n	0				
n	0		20		
	Allow Dire	Allow Direct-IP Multimedia? n Mode Redundancy off 0 off 0 US 3 n 0	IP CODEC SET Allow Direct-IP Multimedia? n Mode Redundancy off 0 off 0 US 3 n 0		

6. Configuring Avaya Aura® Session Manager

A number of configurations are required to enable the Session Manager to route Faxes between the Communication Manager and the Kofax Server. All configurations of the Session Manager are performed using System Manager. The configuration operations described in this section can be summarized as follows:

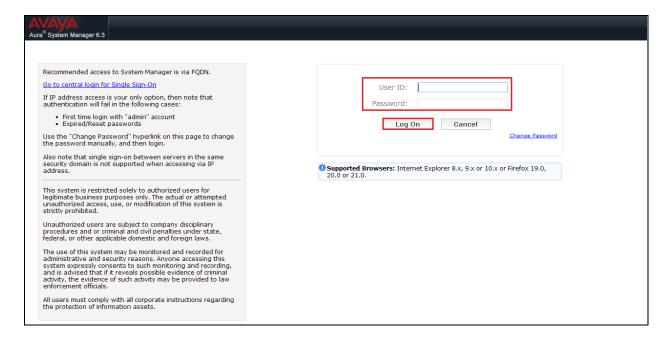
- Logging on to Avaya Aura® System Manager
- Administer SIP Domain
- Administer Locations
- Create Kofax Communication Server as a SIP Entity
- Create an Entity Link for Kofax Communication Server
- Create a Routing Policy Kofax Communication Server
- Create a Dial Pattern for Kofax Communication Server
- Manage Certificates

Note: See **Appendix A** for a screen shot of the Entity Link used between the Session Manager and Communication Manager.

6.1. Logging on to Avaya Aura® System Manager

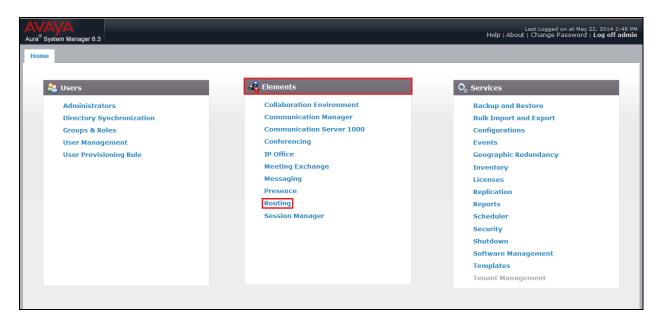
Log on by accessing the browser-based GUI of System Manager, using the URL "http://<fqdn>/SMGR" or "http://<ip-address>/SMGR", where "<fqdn> is the fully qualified domain name of the Avaya Aura® System Manager or the "<ipaddress>" is the IP address of Avaya Aura® System Manager.

Once the System Manager Web page opens, log in with the appropriate credentials and click on the **Log on** button.

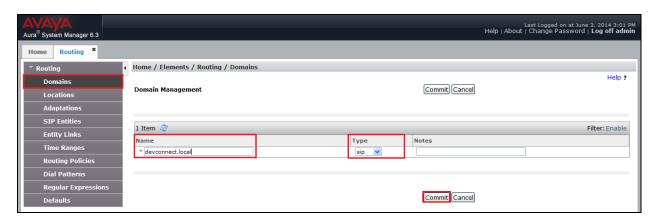


6.2. Administer SIP Domain

Once logged in, select **Routing** from under the **Elements** column.



Select **Domains** on the left panel menu and then click on the **New** button (not shown). In the **Name** field enter the domain of the enterprise (i.e., **devconnect.local**) and select **sip** from the dropdown box. Click **Commit** to save changes.

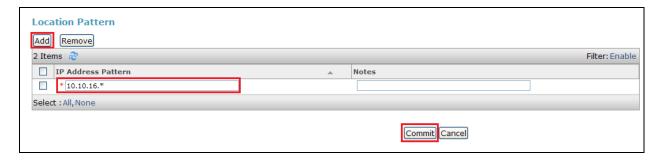


6.3. Administer Locations

Locations can be used to identify logical and/or physical locations where SIP Entities reside for the purposes of bandwidth management. One location is added to the sample configuration for all of the enterprise SIP entities. Select **Locations** on the left panel menu and then click on the **New** button (not shown). In the **Name** field enter an informative name for the location (i.e., **DevConnectRP**). During compliance testing, all other fields were left at default values.



Scroll to the bottom of the page and under **Location Pattern**, click **Add**, then enter an **IP Address Pattern** in the resulting new row, * is used to specify any number of allowed characters at the end of the string. Below is the location configuration used during compliance testing.



6.4. Create Kofax Communication Server as a SIP Entity

A SIP Entity must be added for the Kofax Server. To add a SIP Entity, select **SIP Entities** on the left panel menu and then click on the **New** button (not shown).

Note: A SIP Entity was already configured for the Communication Manager and was called **CM63**.

Enter the following for the Kofax SIP Entity:

Under **General** enter the following:

• Name: Enter an informative name (e.g., **Kofax**)

FQDN or IP Address: Enter the IP address of the of the Kofax Server
 Type: Select SIP Trunk from the dropdown box

• **Location:** Select the location from the dropdown box that was

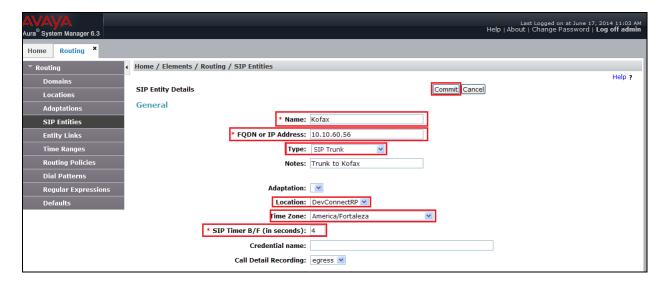
configured in **Section 6.3**

• **Time Zone:** Select Time zone for this location from the dropdown box

• **SIP Timer:** Enter **4**

Once the correct information is entered click the **Commit** Button.

Note: During compliance testing **Adaptation** was left blank.



6.5. Create an Entity Link for Kofax Communication Server

The SIP trunk between the Session Manager and the Kofax Server requires an Entity Link. To add an Entity Link, select **Entity Links** on the left panel menu and click on the **New** button (Not shown). Enter the following:

• Name: An informative name, (e.g., **Kofax Link**)

SIP Entity 1: Select SM63 from the SIP Entity 1 dropdown box
 Protocol: Select TLS from the Protocol drop down box

• **Port:** Enter **5061**

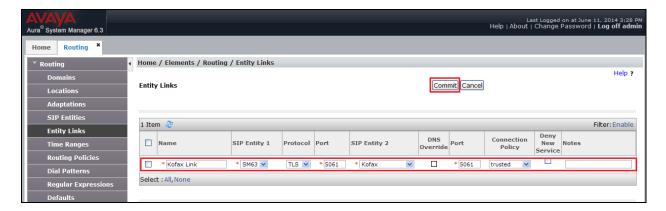
• SIP Entity 2: Select Kofax from the SIP Entity 2 dropdown box (configured in

Section 6.4)

• **Port:** Enter **5061** as the Port.

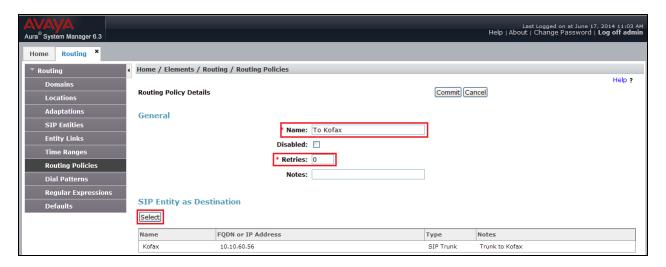
• **Connection Policy:** Select **trusted** from the dropdown box.

Click **Commit** to save changes. The following screen shows the Entity Links used.



6.6. Create a Routing Policy for Kofax Communication Server

Create routing policies to direct calls to the Kofax Server via the Session Manager. To add a routing policy, select **Routing Policies** on the left panel menu and then click on the **New** button (not shown). In **Routing Policy Details** enter an informative name in the **Name** field (example, **To Kofax**) and enter **0** in the **Retries** field. At **SIP Entity as Destination**, click the **Select** button. A Routing Policy was also configured to direct calls to the Communication Manager, but is outside the scope of this Application Note.



Once the **SIP Entity** List screen opens, check the **Kofax** radio button. Click on the **Select** button to confirm the chosen options and then return to the Routing Policies Details screen and select the **Commit** button (Not shown) to save.

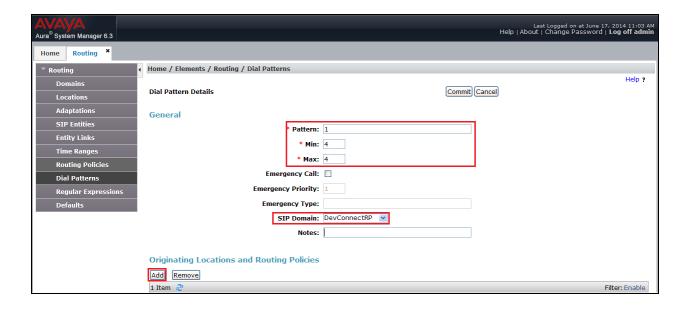


6.7. Create a Dial Pattern for Kofax Communication Server

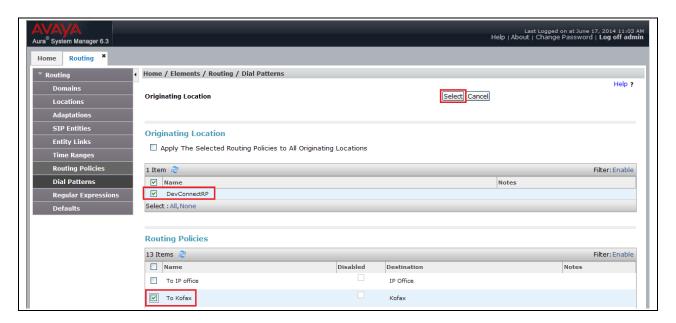
A dial pattern must be created on the Session Manager to route calls to and from the Kofax Server. During compliance testing a number of patterns were used. The example below shows 1. To configure the Dial Pattern to route calls to the Kofax Server, select **Dial Patterns** on the left panel menu and then click on the **New** button (not shown). A Dial Pattern was also configured to route calls to the Communication Manager, but is outside the scope of this Application Note. Under **General** enter out the following:

• Pattern: Enter 4

Min: Enter 4 as the minimum length of dialed number
 Max: Enter 4 as the maximum length of dialed number
 SIP Domain: Select DevConnectRP from the drop down box
 Click the Add button in Originating Locations and Routing Policies.



In **Originating Location** check the **DevConnectRP** check box. Under **Routing Policies** check the **To Kofax** check box. Click on the **Select** button to confirm the chosen options and then be returned to the Dial Pattern screen (shown previously), select **Commit** button to save not shown.

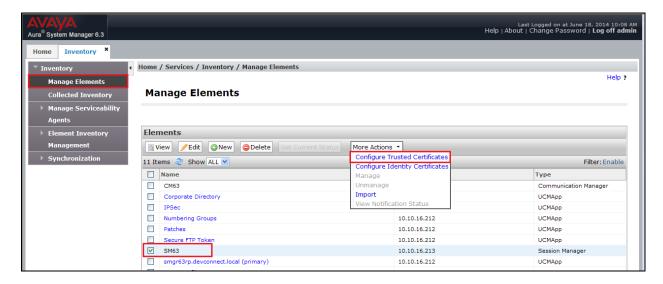


6.8. Manage Certificates

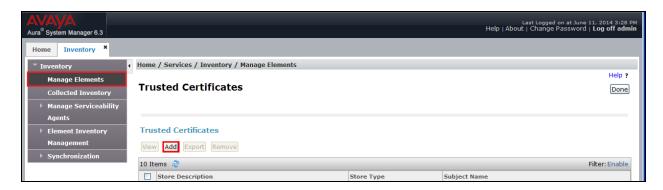
In order for Session Manager and the Kofax Server to successfully negotiate a TLS connection, certificates are exchanged and authenticated during the TLS handshake. For two-way authentication both the Session Manager and Kofax Server need to import each other's certificate. See **Appendix B** for information relating to exporting the Session Manager trusted certificates.

6.8.1. Adding Kofax Server trusted certificate

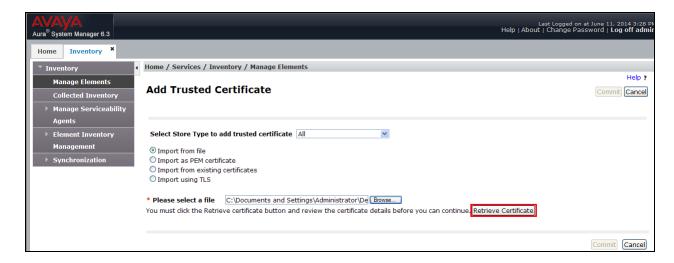
Before adding the trusted certificate, it must first be placed in a location that is accessible by System Manager. To add the certificate click on **Home** followed by **Inventory** in the **Services** column (not shown). Select **Manage Elements** and click on Session Manager Element (i.e., **SM63**). From the **More Actions** dropdown box select **Configure Trusted Certificates**.



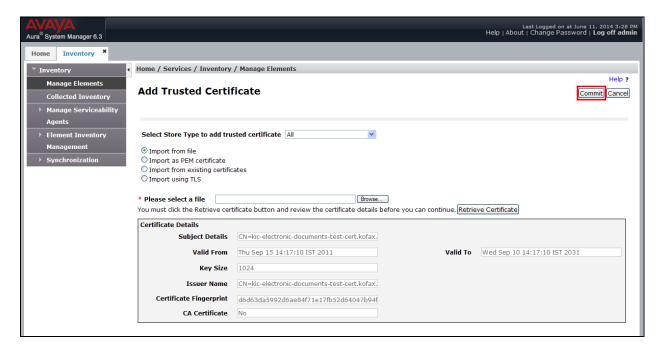
Once the Trusted Certificates screen opens click the **Add** button.



Once the **Add Trusted Certificates** screen opens select **All** from the **Select Store Type to add trusted certificate** dropdown box. Check the **Import from file** radio button. At the **Please select a file** box browse to the location of the Kofax Server trusted certificate and click on the **Retrieve Certificate** button.



Verify the certificate information and then click the **Commit** button to store the certificate.



7. Configure Kofax Communication Server

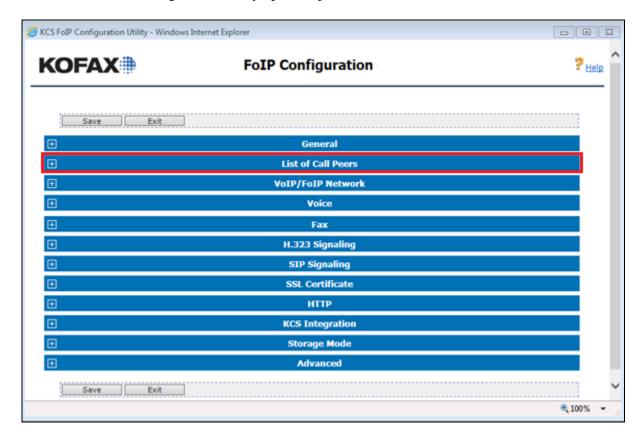
The Kofax Server is provided, installed and implemented by Kofax. Only those configuration details concerning the interface to Avaya are shown within this section. The Web-based Kofax Server FoIP configuration utility was used to configure the interface to Session Manager.

Open the KCS FoIP configuration utility from the shortcut on the Kofax Server desktop. The configuration operations described in this section can be summarized as follows:

- Configure List of Call Peers
- Configure Voice
- Configure Fax
- Configure SIP Signaling
- Configure Certificates
- Configure KCS Integration

7.1. Configure List of Call Peers

Once the KCS FoIP configuration utility opens expand **List of Call Peers** menu item.



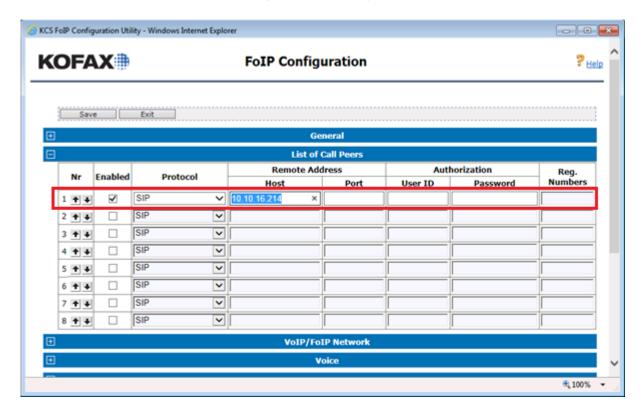
Once the **List of Call Peers** menu item opens complete the following for a free Host:

• **Enabled:** Click on the Check box

• **Protocol:** Select **SIP** from the dropdown box

• **Host:** Enter the IP address of the Session Manager SIP Signaling

Interface (see **Section 5.1**)



7.2. Configure Voice

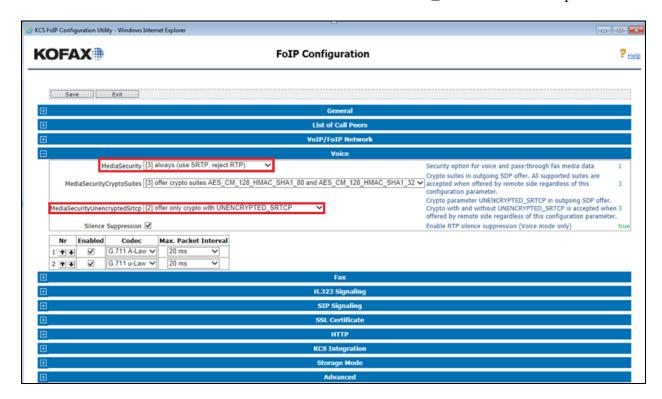
Open the **Voice** menu item and complete the following:

• MediaSecurity: Enter [3] always (use SRPT, reject RTP) from the

dropdown box

• MediaSecurityUnencryptedSrtp: Enter [2] offer only crypto with

UNENCRYPTED_SRPT from the dropdown box



7.3. Configure Fax

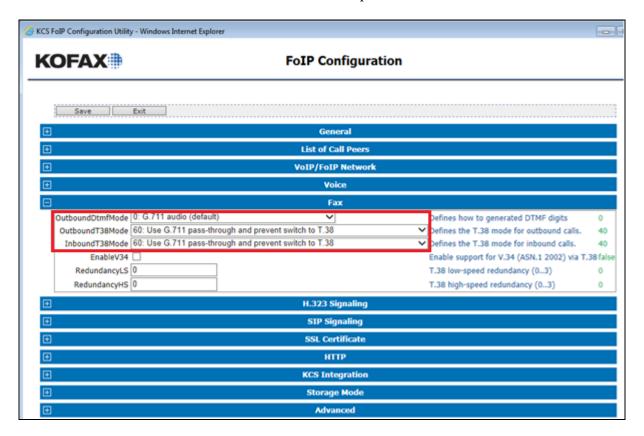
Open the **Fax** menu item and complete the following:

OutboundTDtmfMode: Select 0: G711 audio (default) from the dropdown box
 OutboundT38Mode: Select 60: Use G.711 pass-through and prevent Switch to

T.38 from the dropdown box

• InboundT38Mode: Select 60: Use G.711 pass-through and prevent Switch to

T.38 from the dropdown box



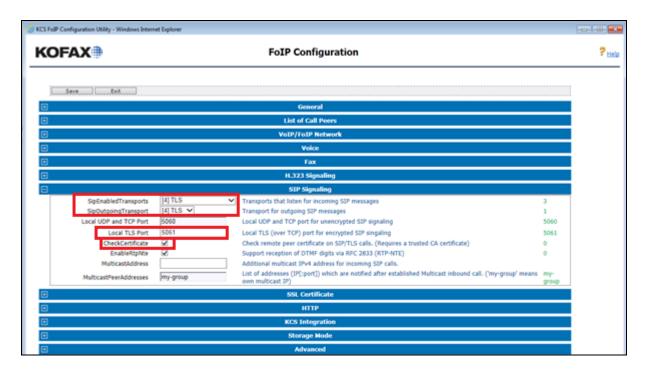
7.4. Configure SIP Signaling

Open the SIP Signaling menu item and complete the following:

SipEnabledTransport:
 SipOutgoingTransport:
 Select [4] TLS from the dropdown box
 Select [4] TLS from the dropdown box

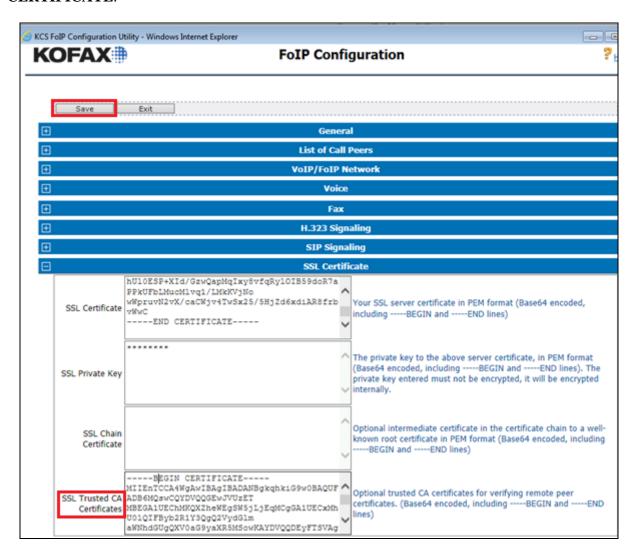
• Local TLS Port: Enter 5061

• CheckCertificate: Check the check box



7.5. Configure Certificates

Open the **SSL Certificate** menu item and complete the following: Locate and open the Session Manager **Trusted** Certificate in a text editor (i.e., Word pad) and copy the contents and paste them in the **SSL Trusted CA Certificates** field between **BEGIN CERTIFICATE** and **END CERTIFICATE**.

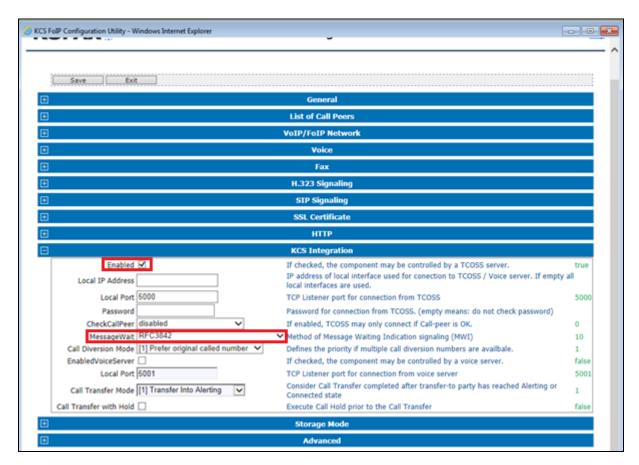


7.6. Configure KCS Integration

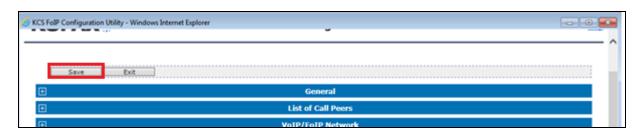
KCS Integration is configured if Message Waiting Indication is used to signal if a Fax is in the Fax recipient's in-box. Complete the following to configure KCS Integration:

• **Enabled:** Check the check box

• MessageWait: Select RFC3842 from the dropdown box



Once the configuration is complete click on the Save button as shown in the screenshot below.



8. Verification Steps

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

8.1. Verify the signaling group status

Using the SAT terminal, enter the **status signaling-group <n>** command, where **<n>** is the number of the SIP signaling group which connects to Session Manager. Verify that the **Group State** is **inservice**.

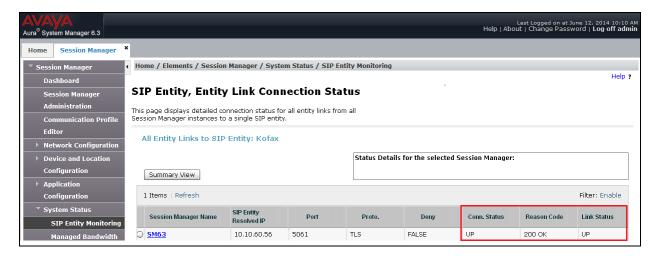
```
STATUS SIGNALING GROUP

Group ID: 1
Group Type: sip

Group State: in-service
```

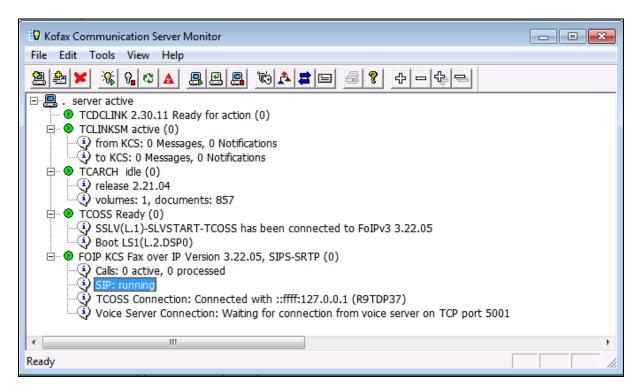
8.2. Verify the SIP Entity Link status for the Kofax Communication server

From System Manager select **Session Manager** from under the **Elements** column(not shown). When the **Session Manager** tab opens select **System Status** followed by **SIP Entity Monitoring**, then click on Kofax SIP Entity created in **Section 6.4**, ensure that the **Conn. Status** is **Up**, the **Reason Code** is **200 OK** and the **Link Status** is **Up**.



8.3. Verify Kofax Communication Server SIP Status

Start the Kofax Communication Server monitor and verify that SIP is in the running state.



Send and receive multipage faxes, ensure the faxes are successfully sent and received and are legible, confirm that the caller ID and fax details are correct.

9. Conclusion

These Application Notes describe the configuration steps required for Kofax Communication Server to interoperate with an Avaya Aura® Communication Manager 6.3 and Avaya Aura® Session Manager 6.3 using TLS. All test cases have passed and met the objectives outlined in **Section 2.2**.

10. Additional References

This section references the Avaya and Kofax documentation that is relevant to these Application Notes. Avaya product documentations, including the following, are available at http://support.avaya.com.

- [1] Administering Avaya Aura® Communication Manager, Release 6.3, Issue 8, May 2013,
- [2] Administering Avaya Aura® Session Manager, Release 6.3, Issue 3 October 2013
- [3] Administering Avaya Aura® System Manager, Release 6.3, Issue 3, October, 2013

Product Documentation for Kofax can be at the following location: http://www.kofax.com/business-communication-software/

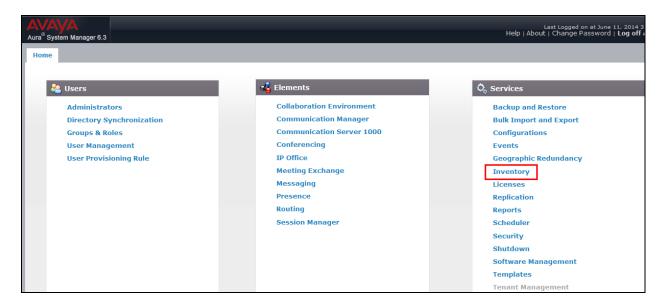
Appendix A

Entity Link between Session Manager and Communication Manager.

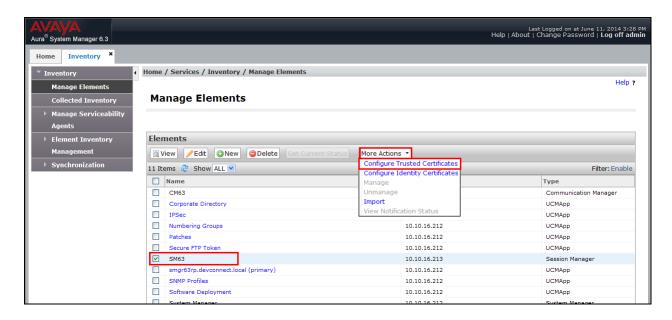


Appendix B

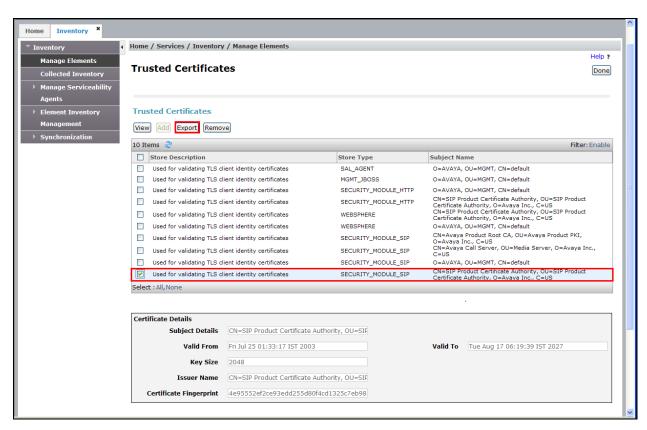
To export the Session Manager trusted certificates follow the steps below. After logging into System Manager go to **Home** → **Services** → **Inventory**.



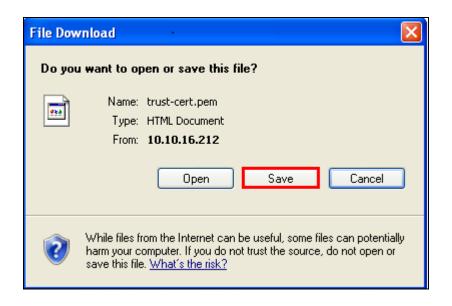
Select **Manage Elements** and click on Session Manager Element (i.e., SM63). From the **More Actions** dropdown box select **Configure Trusted Certificates**



Once the **Trusted Certificates** screen open check the **CN=SIP Product Certificate Authority**, **OU=SIP Product Certificate**, **O=Avaya Inc.**, **C=US** check box. Click the **Export** button to export the certificate.



When the **File download** window opens click on the **save** button and chose a location to store the Certificate. The file stored will then be required to be installed on the Kofax Server.



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