



Avaya Solution & Interoperability Test Lab

Application Notes for configuring Axis Communications AB AXIS A8105-E Network Video Door Station with Avaya IP Office Server edition with 500v2 Expansion 10.1 – Issue 1.1

Abstract

These Application Notes describe the configuration steps for provisioning the AXIS A8105-E Network Video Door Station from Axis Communications AB to interoperate with Avaya IP Office Server Edition with 500v2 Expansion.

Readers should pay particular attention to the scope of testing as outlined in **Section 2.1**, as well as 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 steps for provisioning the AXIS A8105-E Network Video Door Station from Axis Communications AB to interoperate with Avaya IP Office Server Edition with 500v2 Expansion.

AXIS A8105-E Network Video Door Station is an open, non-proprietary IP-based door station for two-way communication, identification and remote entry control. It is a robust outdoor unit with a high performing intercom function providing clear, uninterrupted an echo-free speech also in the most demanding situations.

The unit supports Session Initiation Protocol (SIP) for easy integration with Avaya IP Office to meet advanced audio and video communication needs. AXIS A8105-E is equipped with multiple inputs and outputs for remote control of door locks as well as other equipment.

2. General Test Approach and Test Results

The interoperability compliance testing evaluates the ability of the AXIS A8105-E Network Video Door Station (Axis Door Phone) to make and receive calls to and from Avaya Digital, H.323 and SIP desk phones as well as hunt groups, mobile/PSTN endpoints and a video enabled softphone. The Axis 8105-E Network Video Door Station is registered on IP Office as a third party SIP extension.

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.

Avaya's formal testing and Declaration of Conformity is provided only on the headsets/Smartphones that carry the Avaya brand or logo. Avaya may conduct testing of non-Avaya headset/handset to determine interoperability with Avaya phones. However, Avaya does not conduct the testing of non-Avaya headsets/Smartphones for: Acoustic Pressure, Safety, Hearing Aid Compliance, EMC regulations, or any other tests to ensure conformity with safety, audio quality, long-term reliability or any regulation requirements. As a result, Avaya makes no representations whether a particular non-Avaya headset will work with Avaya's telephones or with a different generation of the same Avaya telephone.

Avaya recommends our customers implement Avaya solutions using appropriate security and encryption capabilities enabled by our products. The testing referenced in these DevConnect Application Notes included the enablement of supported encryption capabilities in the Avaya products. Readers should consult the appropriate Avaya product documentation for further information regarding security and encryption capabilities supported by those Avaya products.

Support for these security and encryption capabilities in any non-Avaya solution component is the responsibility of each individual vendor. Readers should consult the appropriate vendor-supplied product documentation for more information regarding those products.

For the testing associated with these Application Notes, the interface between Avaya systems and the Axis 8105-E did not include use of any specific encryption features as requested by Axis.

2.1. Interoperability Compliance Testing

The compliance testing included the test scenarios shown below. Note that when applicable, all tests were performed with Avaya SIP phones, H.323 phones Digital phones, and PSTN endpoints.

- Registration of door phone.
- Invalid usernames/passwords for registration.
- Basic calls.
- Transfer/Conference/Forwarding.
- Codec support.
- DTMF support.
- Video call.
- Serviceability testing.

2.2. Test Results

All test cases passed successfully.

2.3. Support

Support from Avaya is available by visiting the website <http://support.avaya.com> and a list of product documentation can be found in **Section 10** of these Application Notes. Technical support for the AXIS A8105-E Network Video Door Station product can be obtained as follows:

Axis Communications AB

Tel: +46 46 272 18 00

Fax: +46 46 13 61 30

<http://www.axis.com/global/en/learning-and-support>

3. Reference Configuration

Figure 1 shows the network topology during compliance testing, an AXIS A8105-E Network Video Door Station from Axis Communications AB with IP Office Server Edition and 500v2 Expansion.

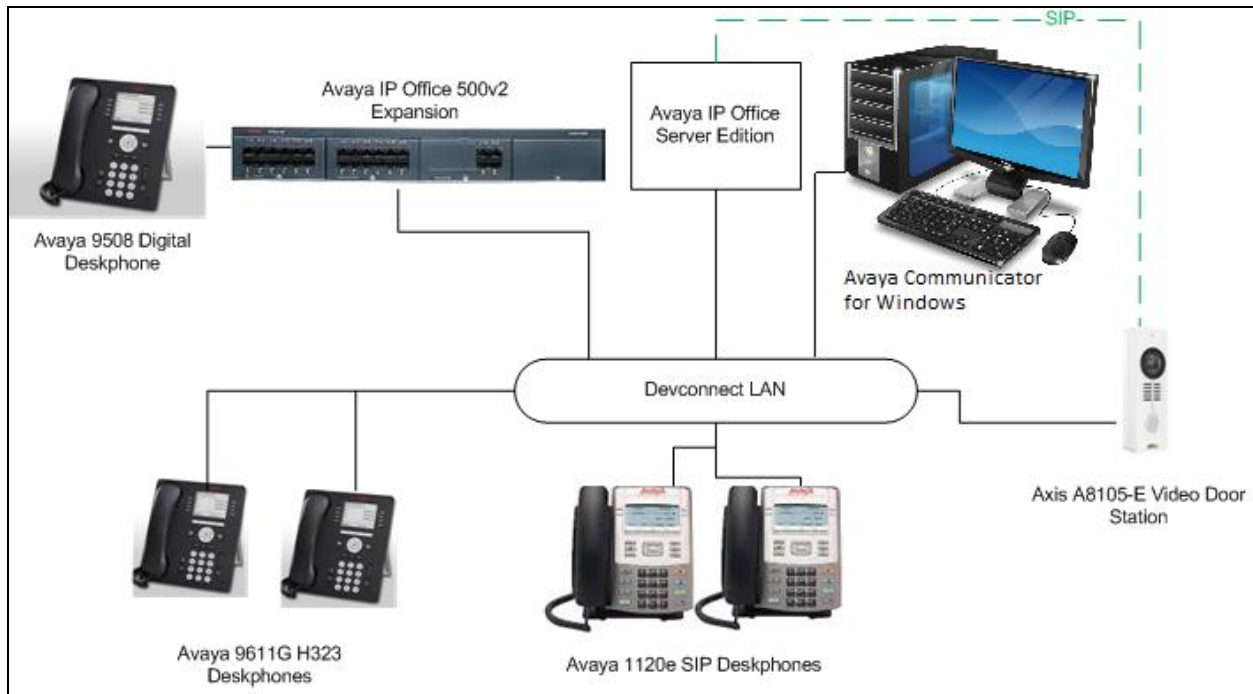


Figure 1: Connection of Axis Communications AB A8105-E Network Video Door Station with Avaya IP Office Server Edition with 500v2 Expansion

Equipment and Software Validated

The following equipment and software was used for the compliance test.

Equipment/Software	Version/Release
Avaya IP Office Server Edition running on a virtual platform	R10.1.0.0.0 Build 237
Avaya IP Office 500 V2	R10.1.0.0.0 Build 237
Avaya IP Office Manager	R10.1.0.0.0 Build 237
Avaya 9608 Deskphone	H.323 Release 6.6401
Avaya 1120e Deskphone	SIP R04.04.23.00
Avaya 1616-I Deskphone	H323 1.390A
Avaya 9408 Digital Deskphone	V2.0
Avaya Communicator for Windows	V 2.1.3
Axis Communications AB AXIS A8105-E Network Video Door Station	Firmware Version 1.65.1.1

Note: *Testing was performed with IP Office Server Edition .Testing also applies to an IP Office 500 V2 standalone system.*

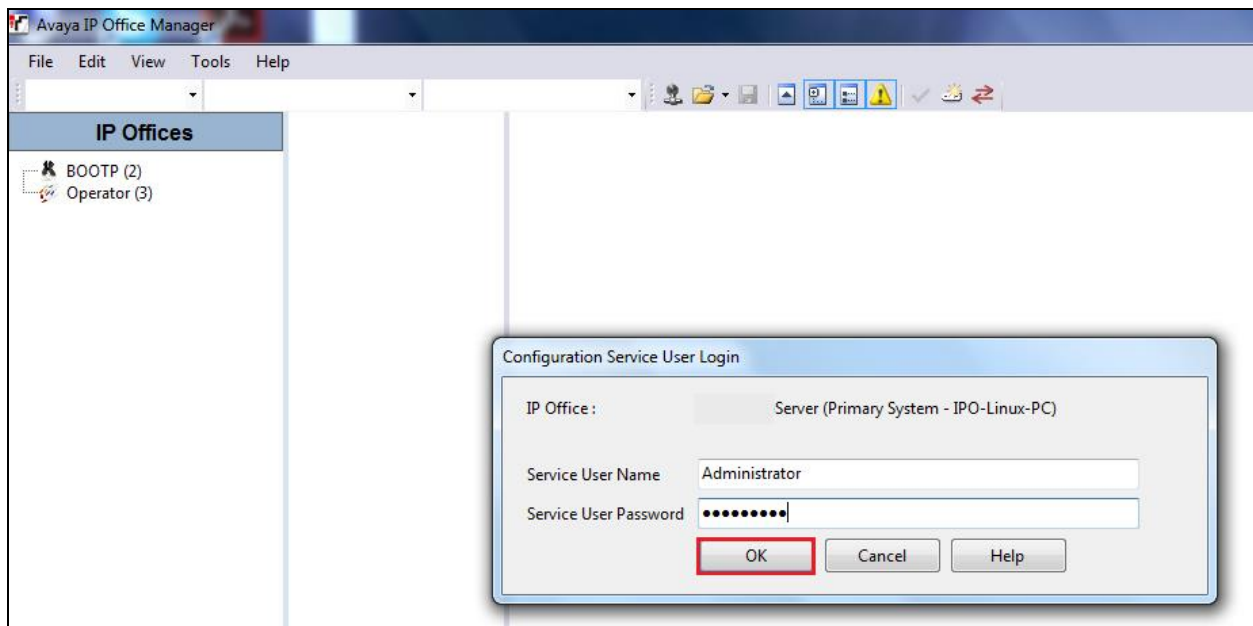
4. Configure Avaya IP Office

Configuration and verification operations on Avaya IP Office illustrated in this section were all performed using Avaya IP Office Manager. The information provided in this section describes the configuration of Avaya IP Office for this solution. It is implied a working system is already in place. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 8**. The configuration operations described in this section can be summarized as follows:

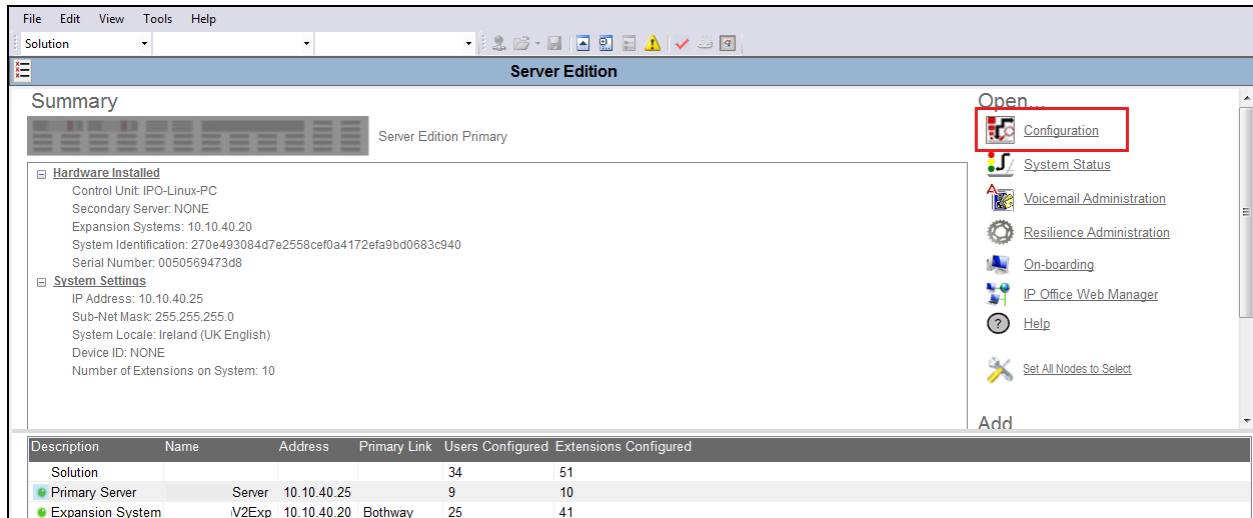
- Launch Avaya IP Office Manager.
- Display LAN Configuration.
- Configure New SIP User.
- Save Configuration.

4.1. Launch Avaya IP Office Manager

From the Avaya IP Office Manager PC, go to **Start → Programs → IP Office → Manager** to launch the Manager application or use the shortcut on the desktop (not shown). A login window will automatically appear, using the appropriate credentials click **OK** to log in.

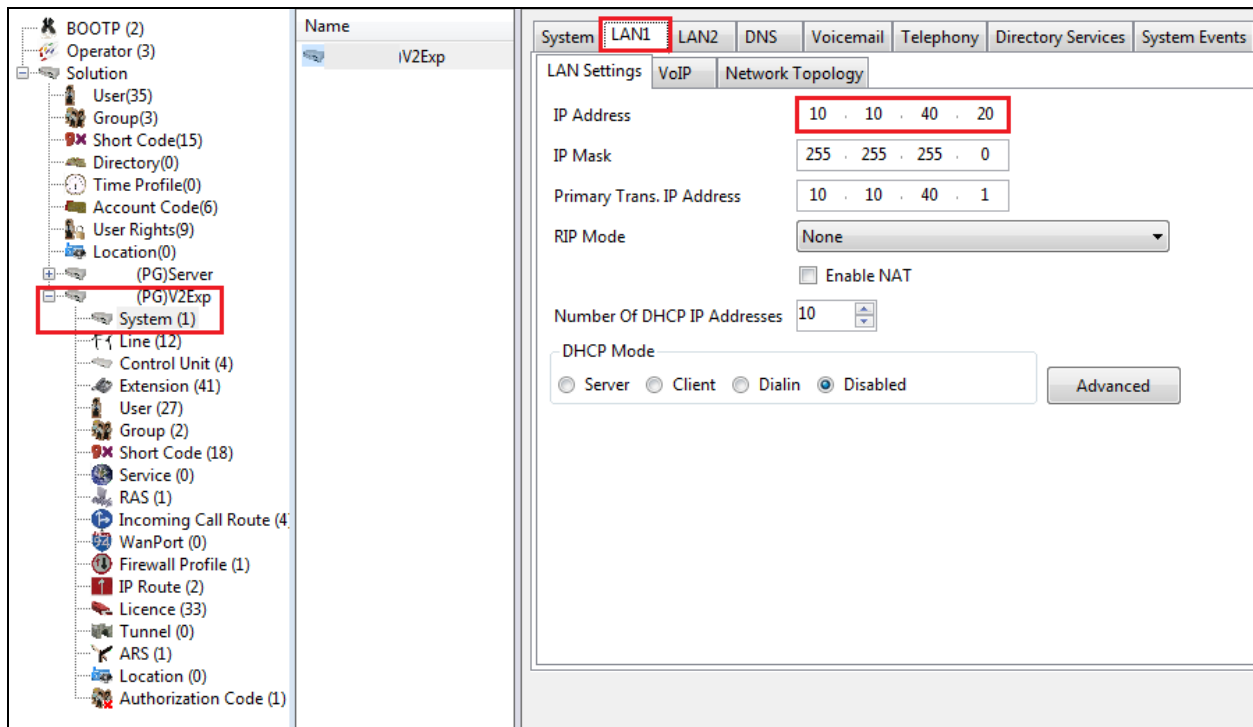


Click on **Configuration** to open the configuration GUI for both the Server Edition system and the expansion system.



4.2. Display LAN Configuration

Once logged in, navigate to **System** in the left window and this will display the IP Office system properties in the main window. Select the **LAN1** tab in the main window and within that tab select the **LAN Settings** tab. This displays the **IP Address** information for the Axis door phone to register to in **Section 5.2**.

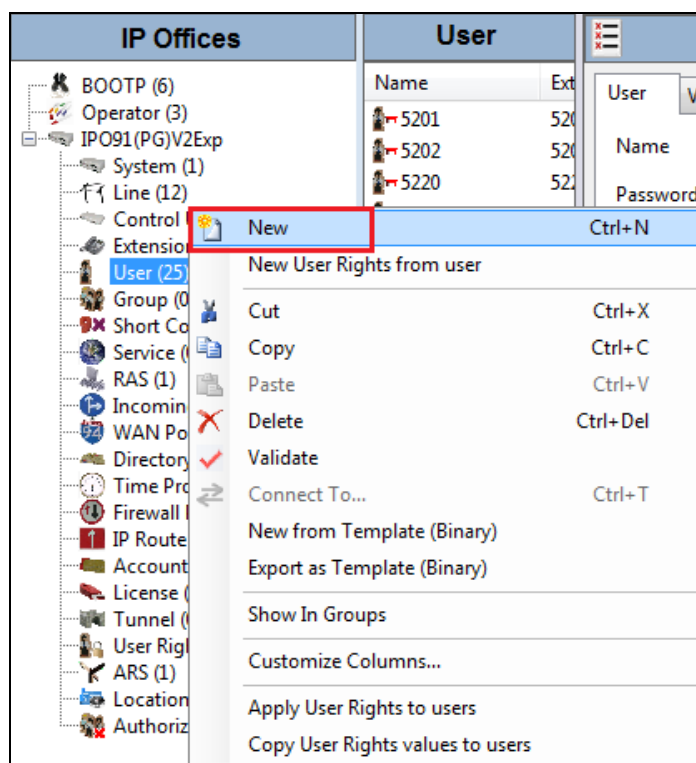


Selecting the **VoIP** tab displays the **Domain Name** and the **UDP**, **TCP** and **TLS Port** details used in the configuration of the Axis door phone in **Section 6.2**.

The screenshot shows the VoIP configuration tab. The 'SIP Registrar Enable' checkbox is checked and highlighted with a red box. Below it, the 'Domain Name' is set to 'devconnect.local'. A red box highlights the 'UDP', 'TCP', and 'TLS' protocol settings, each with a port number (5060 for UDP and TCP, 5061 for TLS). Other settings include 'H323 Gatekeeper Enable', 'SIP Trunks Enable', and 'Challenge Expiry Time (secs)' set to 10.

4.3. Configure New SIP User

From the left window right click on **User** and select **New** as shown below, this will allow a new user to be added to IP Office, this new user will be a SIP user.



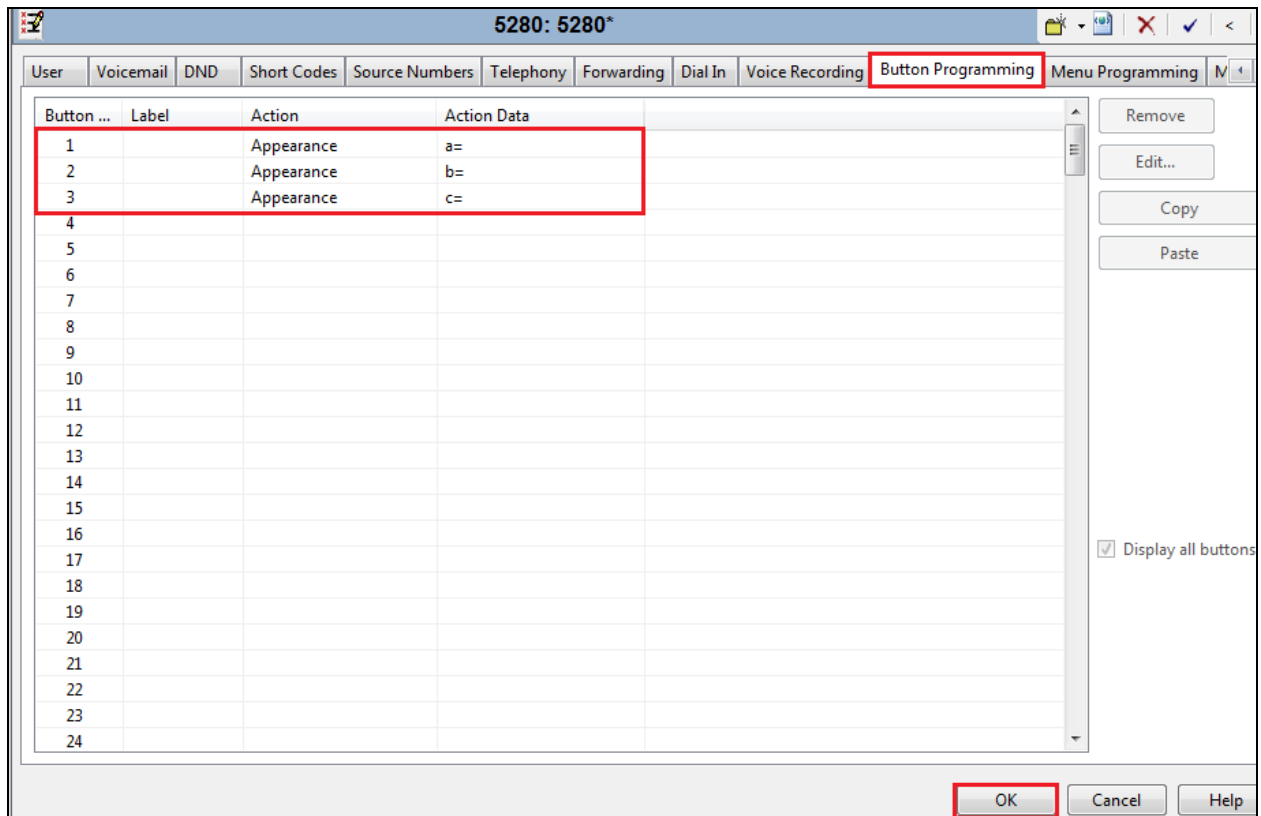
Within the **User** tab at the top of the screen, enter a suitable **Name** and **Password** for the user. Add the **Extension** number as shown below.

Door2 5200: 5200	
User	Voicemail DND ShortCodes Source Numbers Telephony Forwarding Dial In Voice Recording Button Programming
Name	Door2 5200
Password	••••
Confirm Password	••••
Conference PIN	
Confirm Conference PIN	
Account Status	Enabled
Full Name	Axis Door Phone 500V2
Extension	5200
Email Address	
Locale	
Priority	5
System Phone Rights	None
ACCS Agent Type	None
Profile	Power User
	<input type="checkbox"/> Receptionist
	<input checked="" type="checkbox"/> Enable Softphone
	<input checked="" type="checkbox"/> Enable one-X Portal Services
	<input checked="" type="checkbox"/> Enable one-X TeleCommuter

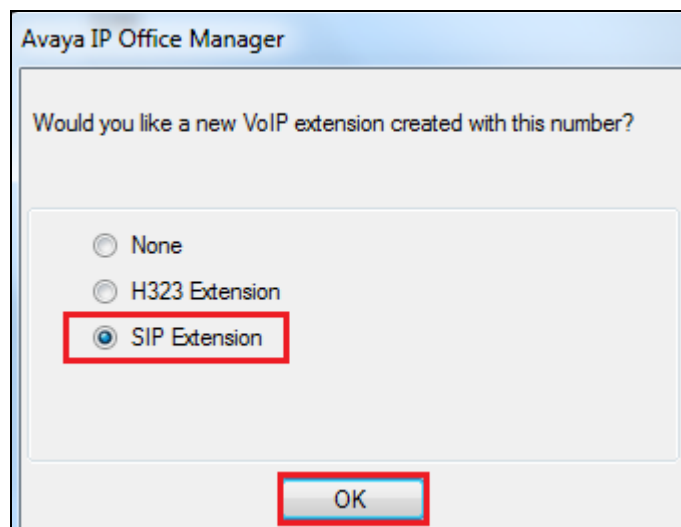
Navigate to the **Supervisor Settings** tab, enter the **Login Code** for the SIP user and note that this password will be required for the Axis door phone configuration in **Section 5.3**. Click on **OK** to save the configuration.

The screenshot shows the 'Door2 5200: 5200*' configuration window. The 'Telephony' tab is selected in the top navigation bar. Within the 'Telephony' tab, the 'Supervisor Settings' sub-tab is active. The settings are organized into two columns. The left column contains: 'Login Code' (masked with four dots), 'Confirm Login Code' (masked with four dots), 'Login Idle Period (secs)' (empty text field), 'Monitor Group' (dropdown menu showing '<None>'), 'Coverage Group' (dropdown menu showing '<None>'), 'Status on No-Answer' (dropdown menu showing 'Logged On (No change)'), and 'Reset Longest Idle Time' (radio buttons for 'All Calls' and 'External Incoming', with 'All Calls' selected). The right column contains a list of checkboxes: 'Force Login', 'Force Account Code', 'Force Authorization Code', 'Incoming Call Bar', 'Outgoing Call Bar', 'Inhibit Off-Switch Forward/Transfer', 'Can Intrude', 'Cannot be Intruded' (checked), 'Can Trace Calls', and 'Deny Auto Intercom Calls'. At the bottom right, there are three buttons: 'OK', 'Cancel', and 'Help'. The 'OK' button is highlighted with a red rectangle.

Navigate to **Button Programming** and the three call appearance buttons should already be programmed, click on **OK**. If not create the appearance buttons (not shown) and click on **OK**.

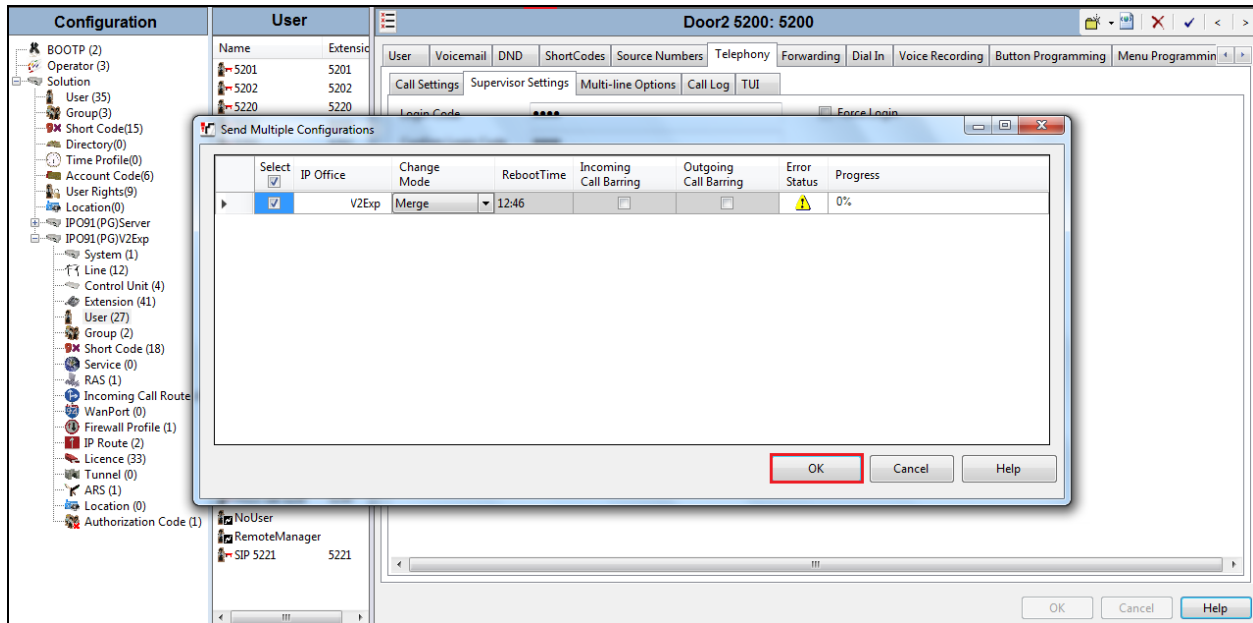


On the subsequent screen, ensure that **SIP Extension** is selected and click on **OK** to create the SIP extension along with the new user.



4.4. Save Configuration

Once all the users and extensions have been created click on the **Save** icon at the top of the screen, which will bring up a new window and click on **OK** to save the new configuration.

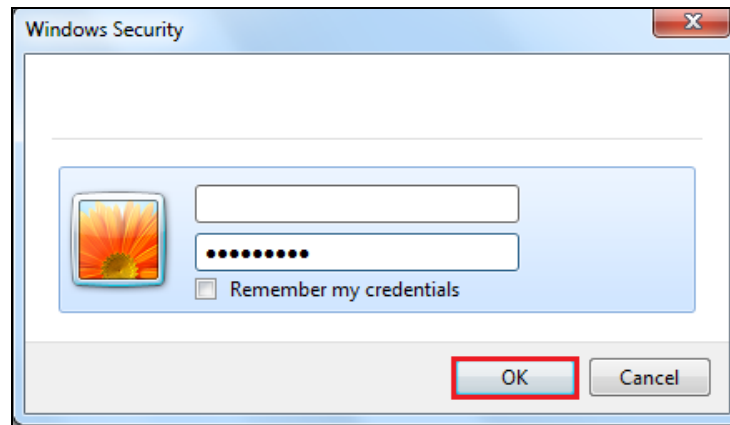


5. Configure AXIS A8105-E Network Video Door Station

The configuration of the Axis door phone uses a web interface.

Note: The door phone obtains its IP address using DHCP and this was the way in which an IP address was given to the device during compliance testing.

Open a web session to the IP address of the Axis door phone, enter the appropriate credentials and click on **OK**.



Please refer to Axis Communications documentation listed in **Section 8** of these Application Notes for further information about the Axis door phone configuration. The following sections cover specific settings concerning SIP and the connection to IP Office.

5.1. Configure SIP Settings

The initial step is to enable SIP-functionality as shown below. Some AXIS products have a SIP Setup Assistant that provides an easy setup for the entire product (for example button-initiated calls on Network Video Door Station). This guide only shows how to set up an account in the AXIS product, not the specific product capabilities. If a Setup Assistant is available, it's recommended that this is used. Click on **VoIP → SIP Settings** in the left window, in the main window ensure that **Enable SIP** is ticked under **SIP Settings** and **Allow incoming SIP calls** under **Incoming SIP Calls**. Under the **Audio Codec Settings**, select the codecs that are to be used and click on **Save** once all is configured correctly.

The screenshot displays the 'SIP Settings' page for an 'AXIS A8105-E Network Video Door Station'. The interface includes a left-hand navigation menu with categories like 'Basic Setup', 'Video & Audio', 'VoIP', 'Live View Config', 'Detectors', 'Applications', 'Events', 'Recordings', 'Languages', 'System Options', and 'About'. The 'VoIP' section is expanded, showing 'Overview', 'SIP Settings' (which is selected), 'VMS Settings', 'Account Settings', and 'DTMF Settings'. The main content area is titled 'SIP Settings' and contains several sections: 'SIP Setup Assistant' with a 'Start...' button; 'SIP Settings' with a checked 'Enable SIP' checkbox and a 'Calling timeout (seconds): 60' input field; 'Incoming SIP Calls' with a checked 'Allow incoming SIP calls' checkbox; 'Port Settings' with input fields for 'SIP port: 5060', 'SIP TLS port: 5061', and 'RTP start port: 4000'; 'NAT Traversal' with unchecked checkboxes for 'Enable ICE', 'Enable STUN', and 'Enable TURN'; 'Audio Codec Settings' featuring two lists of codecs. The 'Available codecs' list includes 'L16/8000 (8000 Hz)', 'speex/16000 (16000 Hz)', 'speex/8000 (8000 Hz)', and 'G.726-32 (8000 Hz)'. The 'Selected codecs' list includes 'PCMU (8000 Hz)', 'PCMA (8000 Hz)', 'opus (48000 Hz)', and 'L16/16000 (16000 Hz)'. Arrows between the lists allow for moving codecs. The 'Advanced SIP Settings' section at the bottom has an unchecked checkbox for 'Disable Automatic UDP to TCP Switch'. A 'Save' button is located at the bottom right of the page.

5.2. Configure Account

Click on **Account Settings** under **VoIP** in the left window. Click on the **Add** button in the main window.

The screenshot displays the web interface for the AXIS A8105-E Network Video Door Station. The top navigation bar includes the AXIS logo, the device name, and links for Live View, Setup, and Help. A left sidebar contains a menu with categories like Basic Setup, Video & Audio, VoIP, Live View Config, Detectors, Applications, Events, Recordings, Languages, System Options, and About. The 'VoIP' category is expanded, showing sub-items: Overview, SIP Settings, VMS Settings, Account Settings (highlighted), and DTMF Settings. The main content area is titled 'Account Settings' and features a table with columns: Name, SIP address, Transport, Default, and Reg. status. Below the table are three buttons: 'Add...', 'Modify...', and 'Remove'. The 'Add...' button is highlighted with a red rectangle. Underneath these buttons is a section titled 'Test SIP Call' with the instruction 'Make a test call from the selected SIP account to the specified SIP address.' This section includes a text input field with the placeholder 'Enter SIP address: sip(s):extension@domain' and a 'Test call' button.

Name	SIP address	Transport	Default	Reg. status
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Add... **Modify...** **Remove**

Test SIP Call
Make a test call from the selected SIP account to the specified SIP address.

Enter SIP address: sip(s):extension@domain **Test call**

Enter the following details under the **General** tab:

- **Name:** Enter a suitable name for the SIP account.
- **User ID:** Enter the SIP user number configured in **Section 4.3**.
- **Password:** Enter the password for the SIP user created in **Section 4.3**.
- **Caller ID:** This should be the extension number created in **Section 4.3**
- **Domain Name:** The IP Office SIP domain.
- **Registrar address:** The IP address of the IP Office.

The screenshot shows a web browser window titled "AXIS A8105-E Network Video Door Station - Google Chrome". The address bar displays "10.10.16.129/admin/account_set.shtml?doAction=add". The page title is "Add Account". There are three tabs: "General", "Network", and "Video", with "General" being the active tab. The form is divided into three sections: "Account Information", "Account Credentials", and "SIP Server Settings".

Account Information

Name:

☒ Default account (Note that only one account can be the default account.)

Account Credentials

User ID:

☒ Use User ID as Authentication ID

Authentication ID:

Password:

Caller ID:

SIP Server Settings

Domain name:

Registrar address:

At the bottom of the form are two buttons: "Save" and "Cancel".

Select the **Network** tab and select the transport mode to be used, this can be UDP, **TCP** or TLS, however only UDP and TCP were tested and work correctly with IP Office. Click on **Save** to save the Account information.

The screenshot shows a web browser window titled "AXIS A8105-E Network Video Door Station - Google Chrome". The address bar displays "10.10.16.129/admin/account_set.shtml?doAction=add#". The page title is "Add Account". There are three tabs: "General", "Network", and "Video". The "Network" tab is selected. Under the "Transport Settings" section, there is a checkbox for "Enable SIPs" which is unchecked. The "Transport mode:" dropdown is set to "TCP". The "Media encryption:" dropdown is set to "none". There is also a checkbox for "Allow port update messages through MWI" which is unchecked. Below this is the "Proxy Settings" section, which contains a table with two columns: "Address" and "Username". The table is currently empty. To the right of the table are two buttons with up and down arrows. Below the table is an "Add..." button. At the bottom of the page are "Save" and "Cancel" buttons.

Address	Username
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5.3. Configure DTMF Settings

Tick the required way in which DTMF will be sent. Send as **SIP INFO** packets or as specially marked events in the RTP stream using **RFC 2833**.

The screenshot displays the web interface for the AXIS A8105-E Network Video Door Station. The top navigation bar includes the AXIS logo, the device name, and links for Live View, Setup, and Help. A left sidebar contains a menu with options like Basic Setup, Video & Audio, VoIP (with sub-items Overview, SIP Settings, VMS Settings, Account Settings, and DTMF Settings), Live View Config, Detectors, Applications, Events, Recordings, Languages, System Options, and About. The main content area is titled 'DTMF Settings' and features a 'DTMF Configuration for SIP Accounts' section. Under 'Peer-to-peer accounts (No local accounts)', two checkboxes are checked: 'DTMF using SIP INFO (RFC2976)' and 'DTMF using RTP (RFC2833)'. Below this is a table for 'Associated DTMF Sequences' with columns for Name and Sequence. At the bottom, a specific account '8275060 (8275060)' is listed.

Associated DTMF Sequences	
Name	Sequence

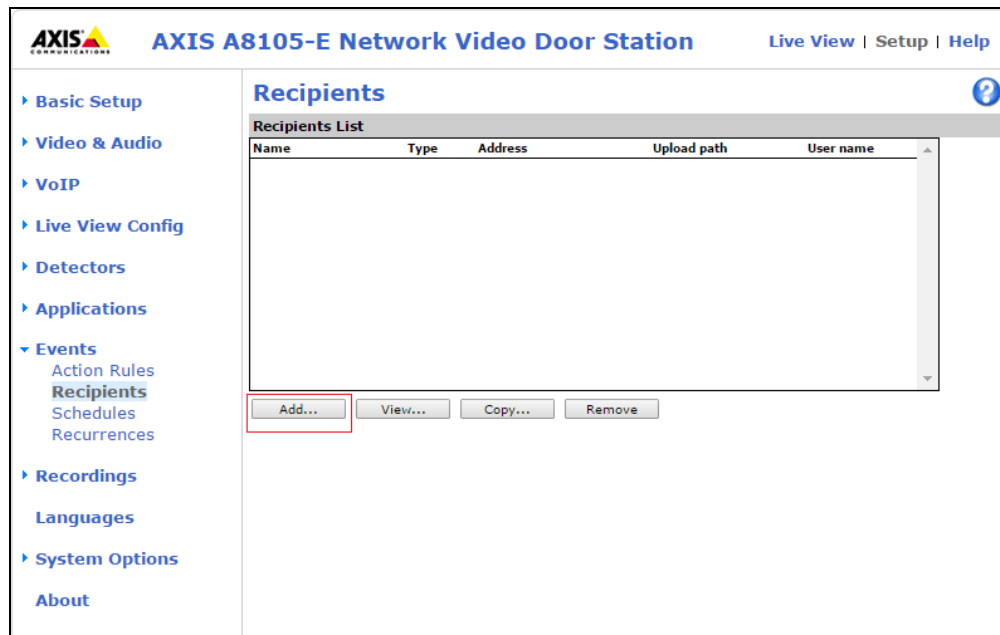
▶ 8275060 (8275060)

5.4. Configure Events

In order to create an event both a recipient and an action rule must be created. A recipient is created before an action rule.

5.4.1. Add a new recipient

Click on **Events** → **Recipients** in the left window and in the main window, click on **Add**.



Enter a suitable **Name** for the **Recipient** and ensure that **Type** is set to **SIP**. The **From** and **To** fields must be chosen. The **From SIP account** should be that created in **Section 5.2**. The **To SIP address** will be the IP Office extension that is to be called. A **Test** can be done to verify the call to the extension before it is saved.

The 'Recipient Setup' dialog box is shown. It contains the following fields and controls:

- Name:** Text box with 'MainReception' entered.
- Type:** Dropdown menu with 'SIP' selected.
- From SIP account:** Dropdown menu with '5200 (5200)' selected.
- To SIP address:** Text box with 'sip:8270000@10.10.16.77' entered.
- Test** section: A note stating 'Test the connection between the selected SIP account and the specified SIP address. The call will end automatically.'
- Select SIP account:** Dropdown menu with '5200 (5200)' selected, next to a 'Test' button.
- At the bottom are 'OK' and 'Cancel' buttons.

A number of different recipients are normal for such a test, where various IP Office endpoints can be called, or perhaps a number of hunt groups.

The screenshot shows the web interface for the AXIS A8105-E Network Video Door Station. The left sidebar contains a navigation menu with the following items: Basic Setup, Video & Audio, VoIP, Live View Config, Detectors, Applications, Events (with sub-items: Action Rules, Recipients, Schedules, Recurrences), Recordings, Languages, System Options, and About. The 'Recipients' item is selected. The main content area is titled 'Recipients' and contains a table with the following data:

Name	Type	Address	Upload path	User name
8270001	SIP	sip:8270001@10.10.16.77	-	-
8275000	SIP	sip:8275000@10.10.16.77	-	-

Below the table are four buttons: Add..., View..., Copy..., and Remove.

5.4.2. Modify Action Rule


An action rule can now be modified to include the participant created in **Section 5.4.1**. Under **Events** in the left window click on **Action Rules** and in the main window select the **BUTTON: Make Call** rule and click **Modify** as shown below.

The screenshot shows the web interface for the AXIS A8105-E Network Video Door Station. The left sidebar is the same as in the previous screenshot, but the 'Action Rules' item under 'Events' is selected. The main content area is titled 'Action Rules' and contains a table with the following data:

Name	Trigger	Schedule	Action	Recipient
<input checked="" type="checkbox"/> AUDIO: Calling	Call - State	-	Play Audio Clip	-
<input checked="" type="checkbox"/> AUDIO: Stop on Active call	Call - State	-	Stop Audio Clip	-
<input checked="" type="checkbox"/> AUDIO: Stop on Idle call	Call - State	-	Stop Audio Clip	-
<input checked="" type="checkbox"/> BUTTON: Make Call	Input Signal - Digital Input Port	-	Make Call	8270001
<input checked="" type="checkbox"/> BUTTON: VMS call	Input Signal - Digital Input Port	-	Make Call	VMS
<input checked="" type="checkbox"/> LIGHT: Active call	Call - State	-	Activate Light	-
<input checked="" type="checkbox"/> LIGHT: Calling	Call - State	-	Activate Light	-
<input checked="" type="checkbox"/> LIGHT: Idle	Call - State	-	Activate Light	-
<input checked="" type="checkbox"/> TAMPERING: Shock	Detectors - Shock	-	Output Port	-

Below the table are four buttons: Add..., Copy..., Modify..., and Remove.

The **General** section displays what is shown by default, and if not change it to what is displayed below or to whatever condition is required. Under the **Actions** section the **Type** is set to **Make Call** and the **Recipient** is set to that recipient created in **Section 5.4.1**. This will ensure that when the button is pressed a call is made to the recipient. Click on **OK** to save the configuration.




Action Rule Setup 

General


☒ Enable rule

Name:

Condition


Trigger: 
 
 


Active: ☒ Yes ☐ No

Schedule: 

☐ Additional conditions

Actions

Type: 

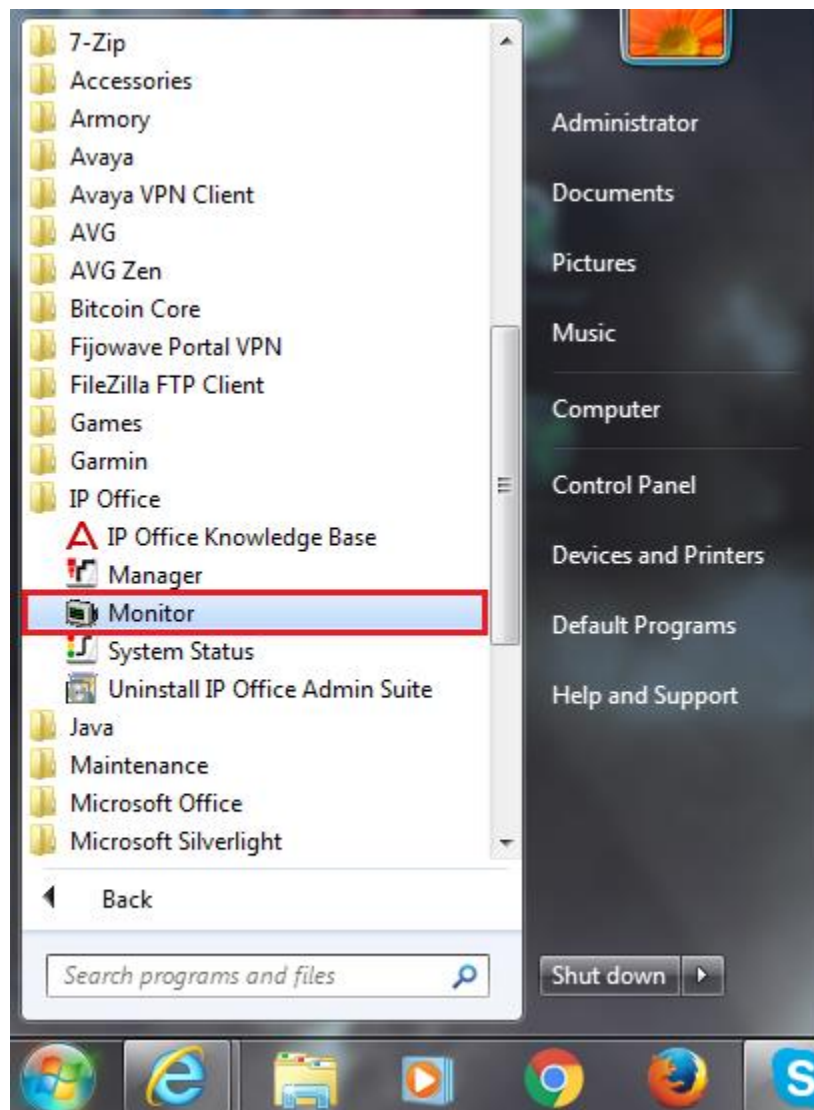
Recipient: 

6. Verification Steps

Pressing the Axis door phone button, answering the call from the IP Office set and ensuring there is two-way speech and video (where possible) is the ultimate verification that the product works and is connected and configured correctly. The steps below can also be taken to ensure that the Axis door phone is registered correctly with IP Office and some monitoring tips to see that this is the case.

6.1. Verify Registration from Avaya IP Office

Open IP Office **Monitor** as shown below.



Once connected to the desired IP Office information, SIP calls and registrations will be shown (as long as the correct filter is applied for SIP messaging (not shown)). Below is an example of a message being displayed when a call is made from the door phone to extension **5201** which is a digital phone on IP Office. It clearly shows from **5200** which is the door phone extension number.

```
File Edit View Filters Status Help
253143179mS SIP Rx: TCP 10.10.40.202:36245 -> 10.10.40.20:5060
INVITE sip:5201@10.10.40.20;transport=TCP SIP/2.0
Via: SIP/2.0/TCP 10.10.40.202:36245;rport;branch=z9hG4bKPjld0FZe2qFGRPbnEg7gKQISr1fe34Zvnt;alias
Max-Forwards: 70
From: "5200" <sip:5200@devconnect.local>;tag=g5ZcvBsSeZ82eRiYHw8Unz2TKVjgg6fw
To: sip:5201@10.10.40.20
Contact: "5200" <sip:5200@10.10.40.202:36245;transport=TCP;ob>
Call-ID: 7D9pVmXb9NQQ4jmI28qe3PZ75M6TDi4X
CSeq: 7110 INVITE
Allow: PRACK, INVITE, ACK, BYE, CANCEL, UPDATE, INFO, SUBSCRIBE, NOTIFY, REFER, MESSAGE, OPTIONS
Supported: replaces, 100rel, timer, norefersub
Session-Expires: 1800
Min-SE: 90
User-Agent: AXIS A8004-VE Network Video Door Station
Content-Type: application/sdp
Content-Length: 478

v=0
c=- 3674549777 3674549777 IN IP4 10.10.40.202
s=pjmedia
b=AS:84
t=0 0
a=X-nat:0
m=audio 4012 RTP/AVP 110 0 8 96
c=IN IP4 10.10.40.202
b=TIAS:64000
a=rtcp:4013 IN IP4 10.10.40.202
a=sendrecv
a=rtpmap:110 G726-32/8000
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:96 telephone-event/8000
a=fmtp:96 0-16
m=video 4014 RTP/AVP 97
c=IN IP4 10.10.40.202
a=rtcp:4015 IN IP4 10.10.40.202
a=sendonly
a=rtpmap:97 H264/90000
a=fmtp:97 profile-level-id=42000d
253143183mS Sip: TCP packet known set owner
```

6.2. Verify Registration from AXIS A8105-E Network Video Door Station

Log in to the door phone as per **Section 5** Navigate to **VoIP → Account Settings** in the left window and the registration information should be displayed in the main window (not shown) The green lights show a successful registration of both **5200** and **5100**. Test call can be made from each account to a specific phone number using the **Test SIP Call** at the bottom of the screen.

If there is an issue with a call from the Axis door phone then there are logs that can be accessed that may show some further information on where the issue may lie. Navigate to **System Options → Support → Logs & Reports** in the left window and from the main window select **View Server Report** under the **Reports** section.

The screenshot displays the web interface for the AXIS A8105-E Network Video Door Station. The top navigation bar includes the AXIS logo, the product name, and links for Live View, Setup, and Help. The left sidebar contains a menu with categories like Basic Setup, Video & Audio, VoIP, Live View Config, Detectors, Applications, Events, Recordings, Languages, System Options, and About. Under System Options, the 'Logs & Reports' option is highlighted with a red box. The main content area is titled 'Logs & Reports' and includes a help icon. It contains a note about log files, a 'Logs' section with buttons for System Log and Access Log, a 'Reports' section with buttons for View Server Report, Download Server Report, Parameter List, Connection List, and Crash Report. The 'View Server Report' button is highlighted with a red box. A checkbox for 'Include snapshot from Live View' is also present. At the bottom, there is a link to the Axis Privacy statement.

This should open a report something like that shown below.

```
http://10.10.40.202/axis-cgi/admin/serverreport.cgi?id=119 - Internet Explorer
http://10.10.40.202/axis-cgi/admin/serverreport.cgi?id=119

2016-06-10T11:44:09.656+01:00 axis-acc08e595208 [ NOTICE ] actionengined: Action rule "TAMPERING: Casing open" is starting action "Output Port"
2016-06-10T11:44:10.415+01:00 axis-acc08e595208 [ NOTICE ] actionengined: Removing "TAMPERING: Shock detected" action rule
2016-06-10T11:44:10.498+01:00 axis-acc08e595208 [ NOTICE ] actionengined: Creating "TAMPERING: Shock detected" action rule
2016-06-10T11:47:29.021+01:00 axis-acc08e595208 [ NOTICE ] actionengined: Validating "Make Call" action
2016-06-10T11:47:29.130+01:00 axis-acc08e595208 [ NOTICE ] actionengined: Creating "BUTTON: VMS call" action rule
2016-06-10T11:47:29.220+01:00 axis-acc08e595208 [ NOTICE ] actionengined: Removing "Make Call" action
2016-06-10T11:47:29.221+01:00 axis-acc08e595208 [ NOTICE ] actionengined: Removing "BUTTON: VMS call" action rule
2016-06-10T11:54:58.417+01:00 axis-acc08e595208 [ INFO ] monolith[305]: monolith[305]: HTTP image/jpeg session created from 10.10.40.203
2016-06-10T11:54:59.277+01:00 axis-acc08e595208 [ INFO ] monolith[305]: monolith[305]: HTTP audio/mpeg session created from 10.10.40.203
2016-06-10T11:55:04.474+01:00 axis-acc08e595208 [ INFO ] monolith[305]: monolith[305]: HTTP audio/mpeg session terminated from 10.10.40.203
2016-06-10T11:55:04.591+01:00 axis-acc08e595208 [ INFO ] sipd: Terminated incoming call: In-7-1465556099.336039-VMS
2016-06-10T11:55:05.216+01:00 axis-acc08e595208 [ INFO ] monolith[305]: monolith[305]: HTTP audio/mpeg session created from 10.10.40.203
2016-06-10T11:55:19.091+01:00 axis-acc08e595208 [ INFO ] monolith[305]: monolith[305]: HTTP image/jpeg session terminated from 10.10.40.203
2016-06-10T11:55:19.173+01:00 axis-acc08e595208 [ INFO ] sipd: Terminated incoming call: In-6-1465556098.513016-VMS
2016-06-10T11:55:19.191+01:00 axis-acc08e595208 [ INFO ] monolith[305]: monolith[305]: HTTP audio/mpeg session terminated from 10.10.40.203
2016-06-10T11:55:19.289+01:00 axis-acc08e595208 [ INFO ] sipd: Terminated incoming call: In-7-1465556105.292005-VMS
2016-06-10T11:56:42.445+01:00 axis-acc08e595208 [ NOTICE ] actionengined: Action rule "BUTTON: VMS call" is starting action "Make Call"
2016-06-10T11:56:42.471+01:00 axis-acc08e595208 [ INFO ] sipd[1690]: Making call Out-4-1465556202.468471-ym.qA7mHoHgb7ESSqKsiWTcl70-Yr.vq from sip account
2016-06-10T11:56:42.490+01:00 axis-acc08e595208 [ NOTICE ] actionengined: Action rule "AUDIO: Calling" is starting action "Play Audio Clip"
2016-06-10T11:56:42.543+01:00 axis-acc08e595208 [ NOTICE ] actionengined: Action rule "LIGHT: Calling" is starting action "Activate Light on Calling"
2016-06-10T11:56:42.628+01:00 axis-acc08e595208 [ NOTICE ] actionengined: Action rule "LIGHT: Idle" is stopping action "Activate Light on Idle"
2016-06-10T11:56:45.735+01:00 axis-acc08e595208 [ NOTICE ] actionengined: Action rule "AUDIO: Stop on Active call" is starting action "Stop Audio Clip"
2016-06-10T11:56:45.793+01:00 axis-acc08e595208 [ NOTICE ] actionengined: Action rule "LIGHT: Active call" is starting action "Activate Light on Active"
2016-06-10T11:56:45.919+01:00 axis-acc08e595208 [ NOTICE ] actionengined: Action rule "LIGHT: Calling" is stopping action "Activate Light on Calling"
2016-06-10T11:56:46.720+01:00 axis-acc08e595208 [ NOTICE ] actionengined: Action rule "TAMPERING: Shock detected" is starting action "Output Port"
2016-06-10T11:56:49.248+01:00 axis-acc08e595208 [ INFO ] sipd: DTMF event door open in call Out-4-1465556202.468471-ym.qA7mHoHgb7ESSqKsiWTcl70-Yr.vq.
2016-06-10T11:56:51.381+01:00 axis-acc08e595208 [ INFO ] sipd: Terminated outgoing call: Out-4-1465556202.468471-ym.qA7mHoHgb7ESSqKsiWTcl70-Yr.vq
2016-06-10T11:56:51.410+01:00 axis-acc08e595208 [ NOTICE ] actionengined: Action rule "AUDIO: Stop on Idle call" is starting action "Stop Audio Clip"
2016-06-10T11:56:51.446+01:00 axis-acc08e595208 [ NOTICE ] actionengined: Action rule "LIGHT: Active call" is stopping action "Activate Light on Active"
2016-06-10T11:56:51.520+01:00 axis-acc08e595208 [ NOTICE ] actionengined: Action rule "LIGHT: Idle" is starting action "Activate Light on Idle"

----- Kernel log -----

<6>Initializing cgroup subsys cpu
<6>Initializing cgroup subsys cpusacct
<5>Linux version 3.18.0 (svcg@aster-x) (gcc version 4.7.2 20120820 (prerelease) [gcc-4_7-branch revision 190527] (GCC 4.7.2 Axis release R25/1.25) ) #1 SMP F
<6>bootconsole [early0] enabled
<6>CPU0 revision is: 01019550 (MIPS 34Kc)
<6>Determined physical RAM map:
<6> memory: 0c000000 @ 00000000 (usable)
<6>initrd not found or empty - disabling initrd
<4>Zone ranges:
```

Information on the call made and the door opening is displayed in the log file.

```
[ INFO ] sipd: Terminated incoming call: In-7-1465556105.292005-VMS
[ NOTICE ] actionengined: Action rule "BUTTON: VMS call" is starting action "Make Call"
[ INFO ] sipd[1690]: Making call Out-4-1465556202.468471-ym.qA7mHoHgb7ESSqKsiWTcl70-Yr.vq from sip account
[ NOTICE ] actionengined: Action rule "AUDIO: Calling" is starting action "Play Audio Clip"
[ NOTICE ] actionengined: Action rule "LIGHT: Calling" is starting action "Activate Light on Calling"
[ NOTICE ] actionengined: Action rule "LIGHT: Idle" is stopping action "Activate Light on Idle"
[ NOTICE ] actionengined: Action rule "AUDIO: Stop on Active call" is starting action "Stop Audio Clip"
[ NOTICE ] actionengined: Action rule "LIGHT: Active call" is starting action "Activate Light on Active"
[ NOTICE ] actionengined: Action rule "LIGHT: Calling" is stopping action "Activate Light on Calling"
[ NOTICE ] actionengined: Action rule "TAMPERING: Shock detected" is starting action "Output Port"
[ INFO ] sipd: DTMF event door open in call Out-4-1465556202.468471-ym.qA7mHoHgb7ESSqKsiWTcl70-Yr.vq.
[ INFO ] sipd: Terminated outgoing call: Out-4-1465556202.468471-ym.qA7mHoHgb7ESSqKsiWTcl70-Yr.vq
[ NOTICE ] actionengined: Action rule "AUDIO: Stop on Idle call" is starting action "Stop Audio Clip"
[ NOTICE ] actionengined: Action rule "LIGHT: Active call" is stopping action "Activate Light on Active"
[ NOTICE ] actionengined: Action rule "LIGHT: Idle" is starting action "Activate Light on Idle"
```

7. Conclusion

These Application Notes describe the configuration steps for provisioning the AXIS A8105-E Network Video Door Station from Axis Communications AB to interoperate with Avaya IP Office Server Edition and IP Office 500 V2 expansion R10.0. Please refer to **Section 2.2** for test results and observations.

8. Additional References

This section references documentation relevant to these Application Notes. The Avaya product documentation is available at <http://support.avaya.com> where the following documents can be obtained.

Product documentation for Avaya products may be found at <http://support.avaya.com>.

- [1] Avaya IP Office R10.0 Manager, Document Number 15-601011
- [2] Avaya IP Office R10.0 Doc library

Technical information for the AXIS A8105-E Network Video Door Station can be obtained from:

Axis Communications AB

Tel: +46 46 272 18 00

Fax: +46 46 13 61 30

<http://www.axis.com/global/en/learning-and-support>

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