



Avaya Solution & Interoperability Test Lab

Application Notes for Integrating the Logitech Webcam B910 with Avaya One-X® Communicator release 6.1 - Issue 1.0

Abstract

These Application Notes describe the steps required to integrate the Logitech Webcam B910 with Avaya One-X® Communicator Release 6.1 as an endpoint on the Avaya Aura® Platform.

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 steps required to integrate the Logitech Webcam B910 (hereafter referred to as B910) with Avaya One-X® Communicator Release 6.1 as an endpoint on the Avaya Aura® Platform. The B910 is a High Definition webcam for business.

2. General Test Approach and Test Results

To verify interoperability of the Logitech Webcam B910 with Avaya One-X® Communicator Release 6.1, video and audio calls were made between Avaya One-X® Communicator and Avaya Flare™ Experience. In addition, voice calls were established from Logitech B910 on the Avaya one-X® Communicator and Avaya IP telephones. Additional features were exercised on the B910 such hold, mute and resume.

2.1 Interoperability Compliance Testing

Interoperability compliance testing covered the following features and functionality:

- Video calls between the B910 on Avaya One-X® Communicator with Avaya Flare™ Experience.
- Video calls between the B910 on Avaya One-X® Communicator with another Avaya One-X® Communicator.
- Voice calls using microphone of the B910 on Avaya One-X® Communicator with Avaya endpoints; other Avaya One-X® Communicator, Avaya Flare™ Experience and IP phones.
- Mute, hold and resume voice and video calls.
- Ability to recover when Avaya One-X® Communicator restarts.

2.2 Test Results

All test cases are passed.

2.3 Support

For technical support on the Logitech B910, contact Logitech Support via phone or website.

- **Phone:** 1 646-454-3209
- **Web:** <http://www.logitech.com/en-us/support-downloads>

3. Reference Configuration

Figure 1 illustrates a sample configuration with an Avaya SIP-based network that includes the following Avaya products:

- Avaya Aura® Communication Manager running on an Avaya S8800 Server with a G650 Media Gateway.
- Avaya Aura® Session Manager connected to Communication Manager via a SIP trunk and acting as a Registrar/Proxy for SIP telephones and video endpoints.
- Avaya Aura® System Manager used to configure Session Manager.

In addition, a Logitech webcam B990, B525 B530 and Avaya one-X® Communicator (SIP and H.323 versions) were used for video calls. All SIP devices registered with Session Manager and were configured as Off-PBX Stations (OPS) on Communication Manager.

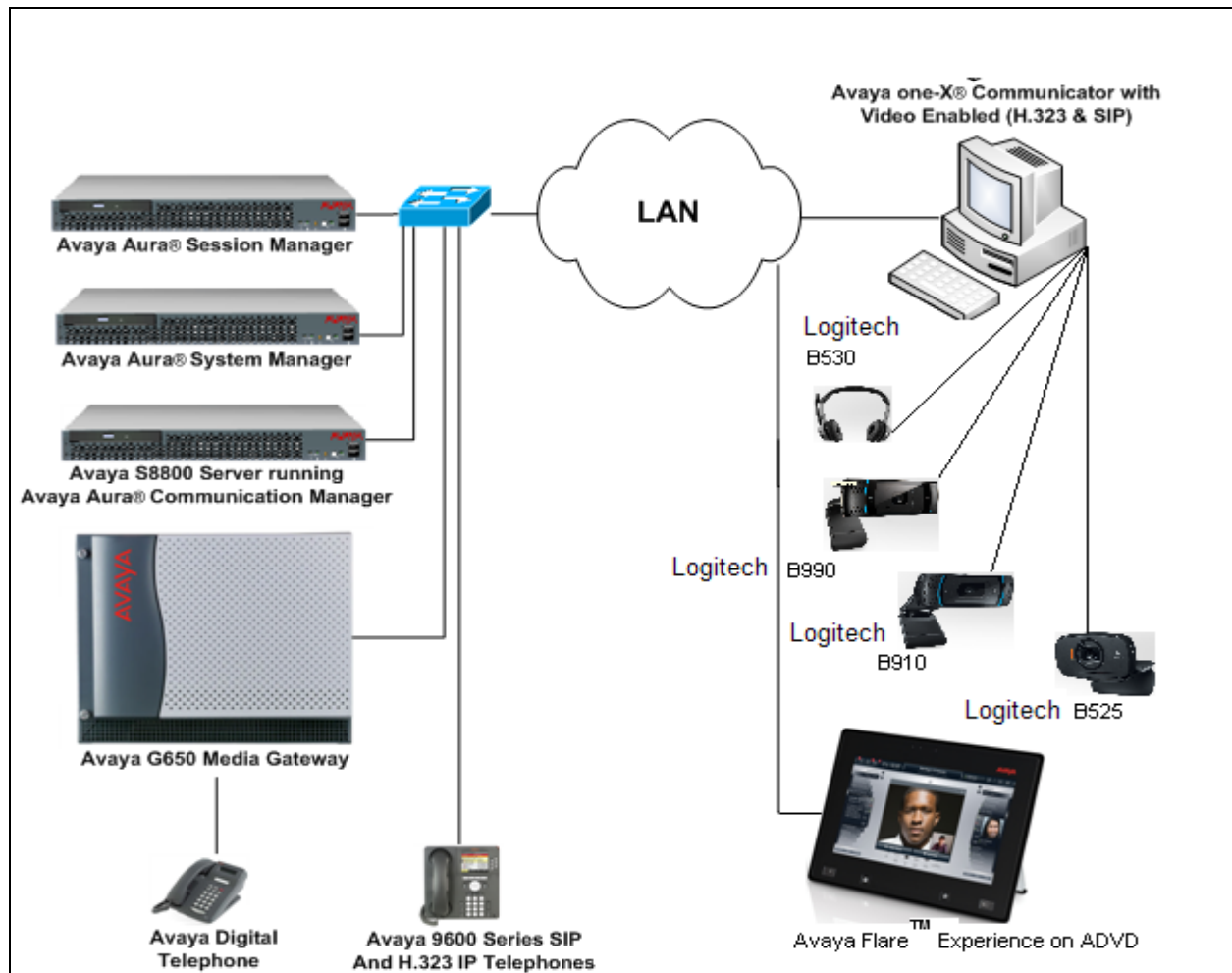


Figure 1: Avaya Network with the Logitech B910 as integrate Video webcam connecting to Avaya One-X Communicator.

4. Equipment and Software Validated

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

Equipment	Software Version
Avaya S8800 server	Avaya Aura® Communication Manager R016x.00.1.510.1
Avaya G650 Media Gateway IPSI TN2312BP CLAN TN799DP IP Media Processor TN2302AP Digital Line TN2224	HW06, FW043 HW01, FW026 HW20, FW095 000006
Avaya One-X® Communicator	6.1.1.02-SP1-32858
Avaya Flare™ Experience on ADVD	1.0.3
Avaya 9611G (H323) IP Phone	6.0.1
Avaya 9650C (SIP) IP Phone	2.6.4
Avaya 1608 (SIP) IP Phone	3.1
Avaya 1408 Digital Phone	0.50
Avaya Analog Phone	n/a
Logitech B910 (HD webcam)	n/a
Logitech B530 (USB headset)	n/a
Desktop PC Operating System	Windows Vista 32-bit SP2

5. Configure Avaya Aura®

These Application Notes assume that Avaya Aura® System namely Communication Manager (CM) and Session Manager are configured and operational. For detailed information on how to configure and administer the Aura System, please refer to the **Section 9 [1]**.

There are additional settings required to be configured for the connection of the B910 to the Avaya One-X® Communicator for video call to work and they are as follow:

- On the second page of the **ip-codec-set** form, enable "**Allow Direct-IP Multimedia**" and set the 2 fields below it to "**4096:Kbits**".
- In the **SIP Signaling Group** for Session Manager, enable "**IP Video**" and "**Initial IP-IP Direct Media**".
- On the **Station** form enable "**IP Softphone**" and "**IP Video**" options. Note that if the station was configured automatically through the Session Manager, the **User** in Session Manager also has to have these options enabled under "**Endpoint Editor**".
- Enable "**video**" on Avaya One-X® Communicator.

The following section will describe how to configure the additional settings mentioned above. All the required settings are highlighted as bold font.

5.1 Configure the Avaya Aura® Communication Manager

Using the SAT, in the **IP Codec Set** form, configure **Page 2** of the **IP Codec Set** form as shown bellow.

change ip-codec-set 1		Page 2 of 2
IP Codec Set		
Allow Direct-IP Multimedia? y		
Maximum Call Rate for Direct-IP Multimedia: 4096:Kbits		
Maximum Call Rate for Priority Direct-IP Multimedia: 4096:Kbits		
	Mode	Redundancy
FAX	relay	0
Modem	off	0
TDD/TTY	US	3
Clear-channel	n	0

In the **SIP Signaling Group** for Session Manager, enable "**IP Video**" and "**Initial IP-IP Direct Media**". On page 1 of the **signaling-group** form, configure the video options as shown bellow.

add signaling-group 1		Page 1 of 1
SIGNALING GROUP		
Group Number: 50	Group Type: sip	
IMS Enabled? n	Transport Method: tcp	
Q-SIP? n	SIP Enabled LSP? n	
IP Video? Y	Priority Video? y	nforce SIPS URI for SRTP? y
Peer Detection Enabled? y Peer Server: SM		
Near-end Node Name: procr	Far-end Node Name: DevASM	
Near-end Listen Port: 5060	Far-end Listen Port: 5060	
	Far-end Network Region: 1	
Far-end Domain: avaya.com		
Incoming Dialog Loopbacks: eliminate	Bypass If IP Threshold Exceeded? n	
DTMF over IP: rtp-payload	RFC 3389 Comfort Noise? n	
Session Establishment Timer(min): 3	Direct IP-IP Audio Connections? y	
Enable Layer 3 Test? n	IP Audio Hairpinning? n	
H.323 Station Outgoing Direct Media? n	Initial IP-IP Direct Media? y	
	Alternate Route Timer(sec): 6	

Configure Station for Avaya One-X® Communicator, the **station** and **off-pbx-telephone station-mapping** configuration shown in this section was automatically performed after creating the **User** in Session Manager (not shown). In this section, simply verify the settings. Note that the **User** has to be added in Session Manager first before it can be viewed on Communication Manager. Alternatively, this configuration could have also been performed manually.

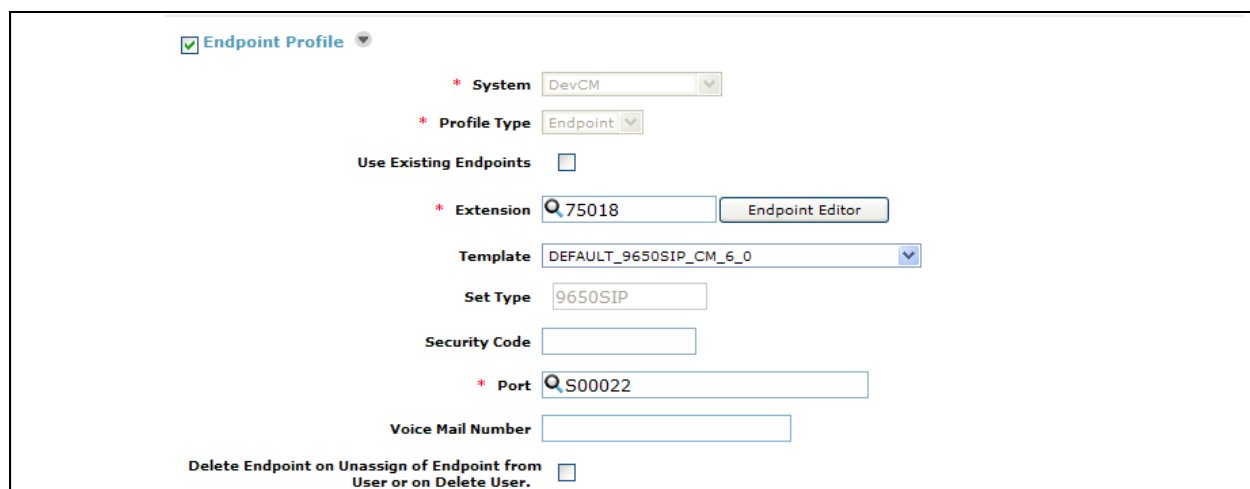
Use the **display station** command to view the station created for the Avaya One-X® Communicator with Logitech B910 as webcam and verify the settings in bold. Note that the **IP Video** field must be set to **y**.

add station 75018		Page 1 of 6
STATION		
Extension: 75018	Lock Messages? n	BCC: M
Type: 9650SIP	Security Code:	TN: 1
Port: S00022	Coverage Path 1:	COR: 1
Name: One-X75018,	Coverage Path 2:	COS: 1
	Hunt-to Station:	
STATION OPTIONS		
Loss Group: 19	Time of Day Lock Table:	
	Message Lamp Ext: 75018	
Display Language: english	Button Modules: 0	
Survivable COR: internal		
Survivable Trunk Dest? y	IP SoftPhone? y	
	IP Video? Y	
Short/Prefixed Registration Allowed: default		

5.2 Configure Avaya Aura® Session Manager

This section only provides verification step to ensure that the video settings enabled for the endpoint profile of the Avaya One-X® communicator.

In the **Endpoint Profile** section, then click on the **Endpoint Editor** as shown in **Figure 2**.



The screenshot displays the 'Endpoint Profile' configuration interface. At the top left, there is a checked checkbox labeled 'Endpoint Profile' with a dropdown arrow. Below this, the 'System' field is set to 'DevCM'. The 'Profile Type' is set to 'Endpoint'. A checkbox for 'Use Existing Endpoints' is currently unchecked. The 'Extension' field contains '75018', and an 'Endpoint Editor' button is located to its right. The 'Template' dropdown is set to 'DEFAULT_9650SIP_CM_6_0'. The 'Set Type' field is set to '9650SIP'. The 'Security Code' field is empty. The 'Port' field is set to 'S00022'. The 'Voice Mail Number' field is empty. At the bottom, there is a checkbox labeled 'Delete Endpoint on Unassign of Endpoint from User or on Delete User.', which is also unchecked.

Figure 2: Endpoint Profile

The **Figure 3** is displayed. In the **Features** section, make sure the **IP Softphone** and **IP Video Softphone** checkbox are checked and click **Done**. The user will be returned to the previous screen. Click the **Commit** button to save the new SIP user profile.

The screenshot shows the 'Endpoint Editor Page' with several tabs: 'General Options (G) *', 'Feature Options (F)', 'Site Data (S)', 'Abbreviated Call Dialing (A)', 'Enhanced Call Fwd (E)', 'Button Assignment (B)', and 'Group Membership (M)'. The 'Feature Options (F)' tab is selected.

Configuration fields include:

- Active Station Ringing: single
- MWI Served User Type: Select
- Per Station CPN - Send Calling Number: Select
- IP Phone Group ID:
- Remote Soft Phone Emergency Calls: as-on-local
- LWC Reception: spe
- AUDIX Name:
- Speakerphone: 2-way
- Short/Prefixed Registration Allowed: Select
- Auto Answer: none
- Coverage After Forwarding: system
- Display Language: english
- Hunt-to Station:
- Loss Group: 19
- Survivable COR: internal
- Time of Day Lock Table: Select
- Voice Mail Number:

The 'Features' section contains a list of checkboxes:

- ☐ Always Use
- ☐ IP Audio Hairpinning
- ☐ Bridged Call Alerting
- ☐ Bridged Idle Line Preference
- ☒ Coverage Message Retrieval
- ☐ Data Restriction
- ☒ Survivable Trunk Dest
- ☐ Bridged Appearance Origination Restriction
- ☐ Idle Appearance Preference
- ☒ IP SoftPhone
- ☒ LWC Activation
- ☐ CDR Privacy
- ☒ Direct IP-IP Auto Connection
- ☐ H.320 Conversion
- ☒ IP Video Softphone

At the bottom left, there is a red asterisk and the text '*Required'. At the bottom right, there are 'Done' and 'Cancel' buttons.

Figure 3: Endpoint Editor Page

5.3 Configure Avaya One-X® Communicator

This section describes the procedure configuring Avaya One-X® Communicator to use Logitech webcam B910. There are additional steps to set up the Logitech USB headset B530 for audio testing. Assuming that, the Avaya One-X® Communicator has been installed according to Avaya product support documentation.

Launching the Avaya One-X® communicator and fill in the **Extension** and **Password** as shown in **Figure 4**.



Figure 4: Avaya One-X® Communicator Login Page

Click on the top right corner of the setting icon as show in **Figure 4**. Choose **Setting** and **General Settings** window is as shown in **Figure 5**. Under the **Telephony** setting, check the **Enable Video Calls** check box.

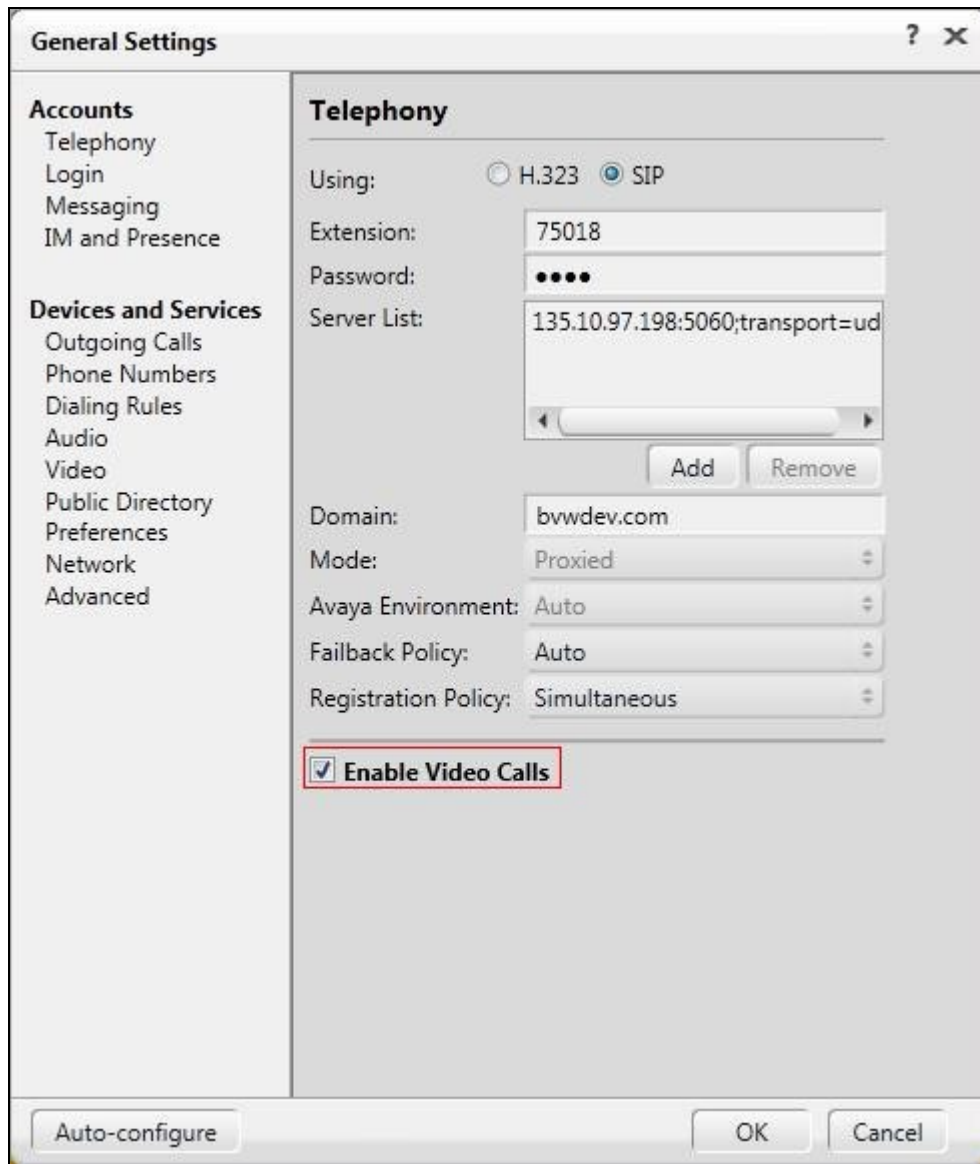


Figure 5: Telephony Setting

Go to **Devices and Services -> Video -> General** tab, enable the **Send your video image automatically when you answer or join a video call** as shown in **Figure 6**.

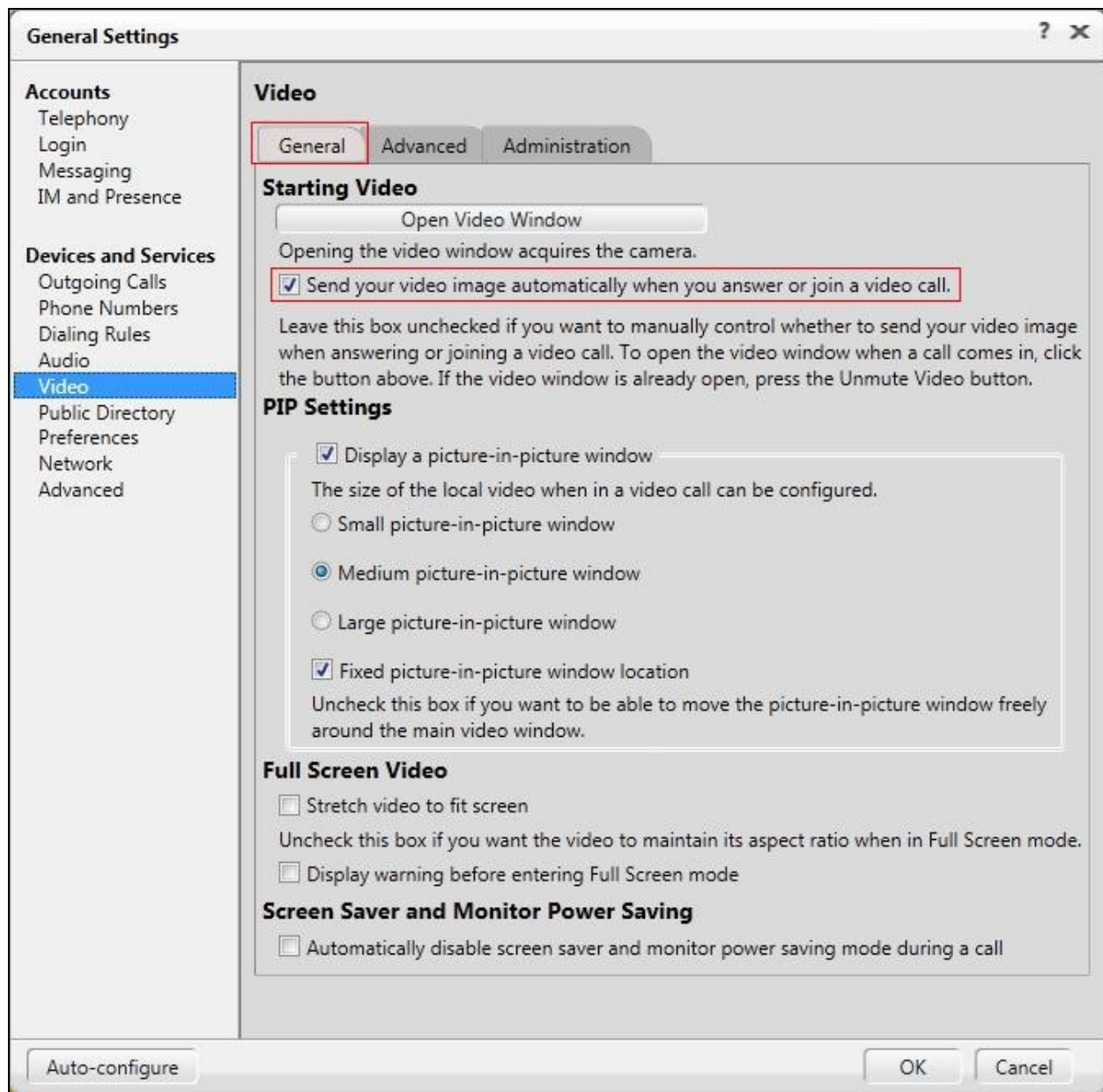


Figure 6: Video General Setting

Note: Download the B910 webcam driver from Logitech using the following link <http://www.logitech.com/en-us/639/7364?section=downloads>. Choose the appropriate PC Window OS where it is connected and install the driver.

Go to **Devices and Services -> Video -> Advanced** tab. Under **Camera Setting**, select **Preferred Camera Logitech B910 HD Webcam** as show in **Figure 7**.

Note:

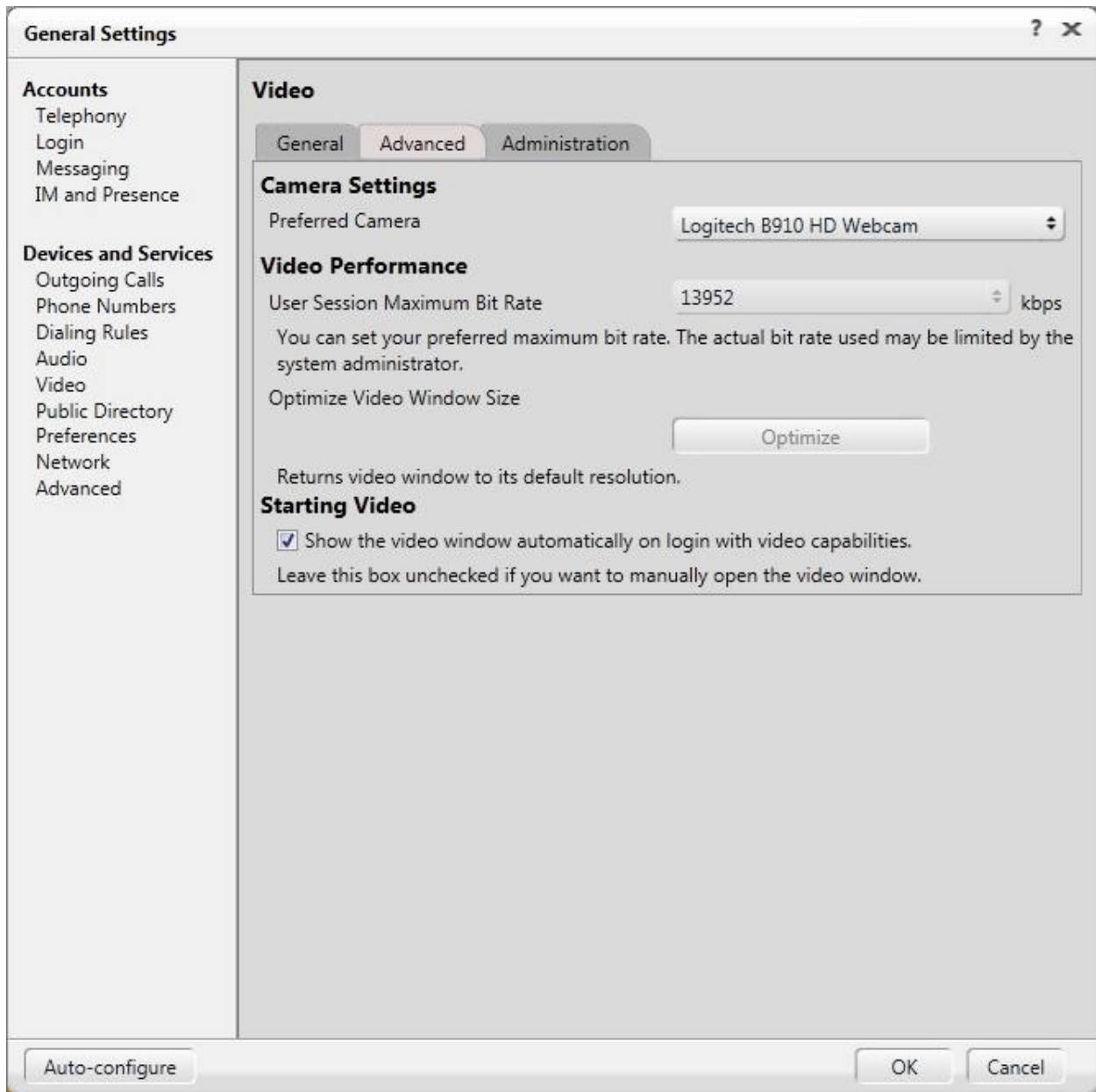


Figure 7: Video Advanced Page

Go to **Devices and Services** -> **Video** -> **Administration** tab. Make sure all the codec checkboxes are enable as shown in **Figure 8**.

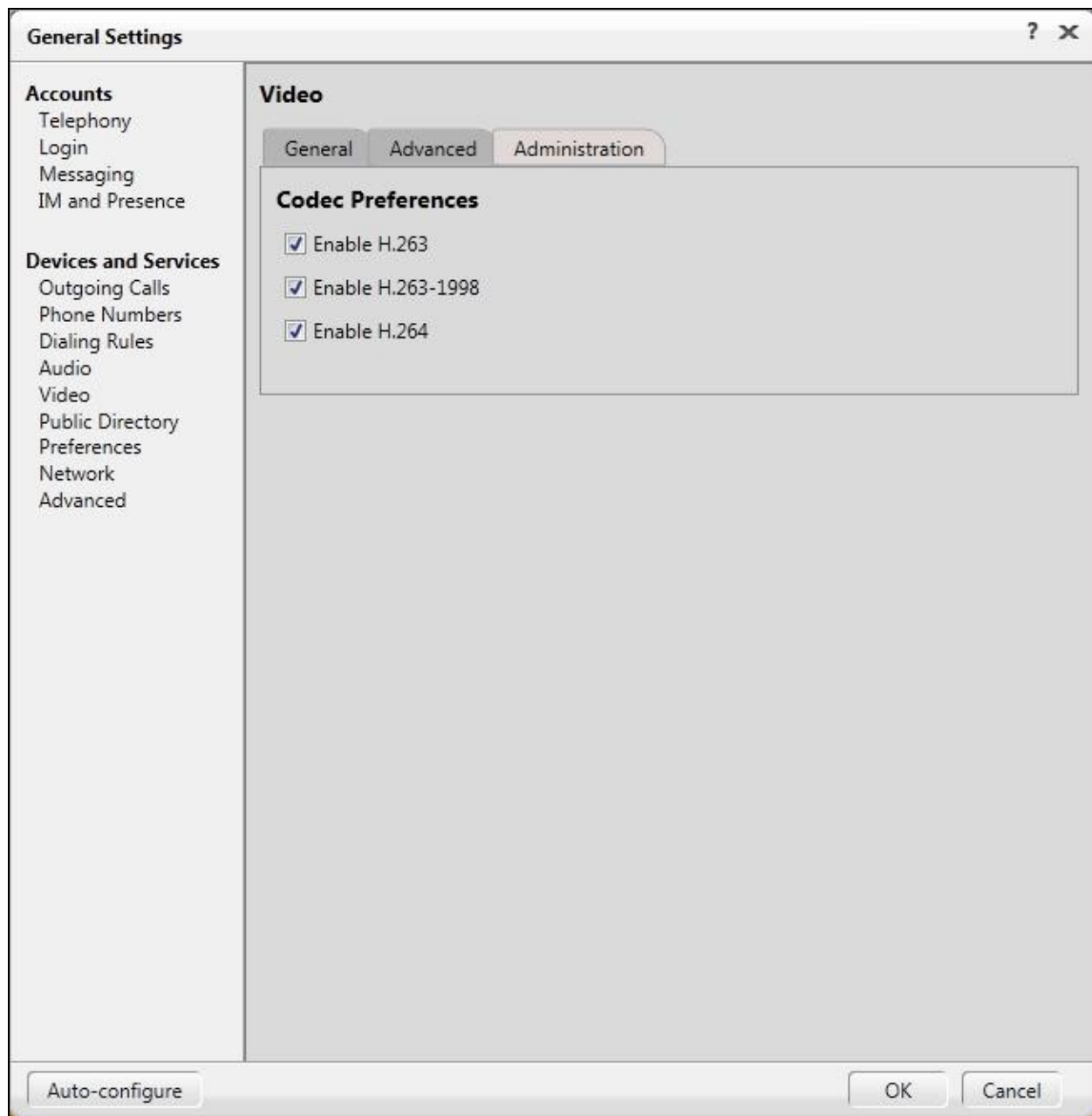


Figure 8: Video Administration Page

6. Verification Steps

This section provides the steps that may be performed to verify proper configuration the B910 on the Avaya One-X® Communicator.

1. Verify that when login to the Avaya One-X® Communicator, the **Preferred Camera** in used is the *Logitech B910 HD Webcam* as shown in **Figure 9**.



Figure 9: Avaya One-X® Communicator SoftPhone

2. Place an outgoing video call from One-X with B910 configured to Avaya Flare and verify that the video completes with 2-way audio and video.

7. Conclusion

These Application Notes have described the administration steps required to integrate the Logitech high definition webcam B910 with Avaya One-X® Communicator. Calls are established with 2 way video and speech paths. All test cases passed with observations noted in **Section 2.2**.

8. References

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

- [1] *Administering Avaya Aura® Communication Manager*, August 2010, Release 6.0, Issue 6.0, Document Number 03-300509.
- [2] *Administering Avaya Aura® Session Manager*, August 2010, Issue 3, Release 6.0, Document Number 03-603324.
- [3] Logitech B910 documentation can be found at <http://www.logitech.com/en-us/for-business/products/webcams-headsets/devices/B910-hd-webcam>

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