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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.

QT; Reviewed:
SPOC 12/13/2011
Solution & Interoperability Test Lab Application Notes
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B910-oneX

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.
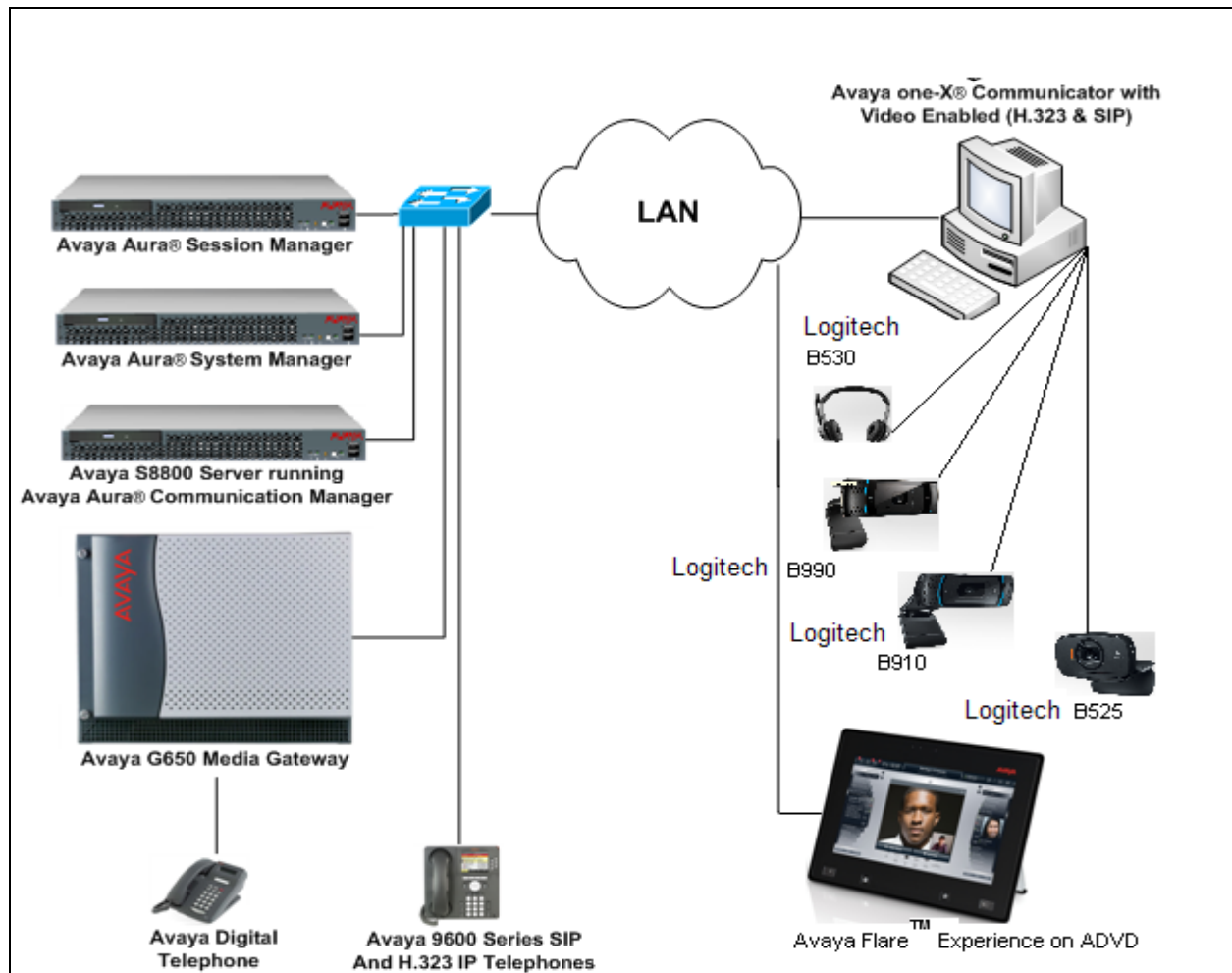

Figure 1: Avaya Network with the Logitech B910 as integrate Video webcam connecting to Avaya One-X Communicator.

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
                                        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? n           Initial IP-IP Direct Media? y
H.323 Station Outgoing Direct Media? n     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.
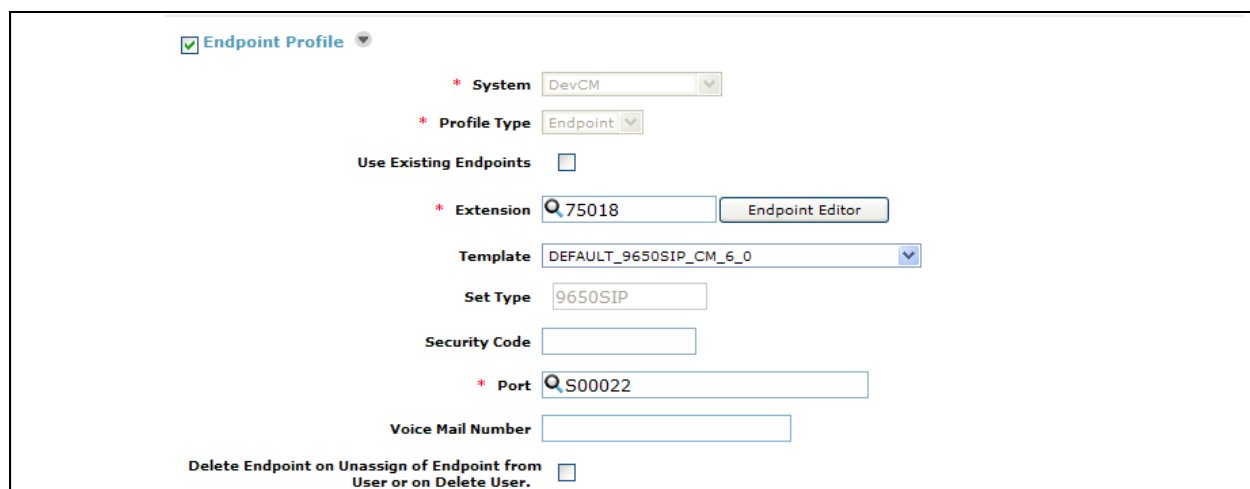
Use the **display station** command to view the station created for the Avaya One-X® Communicator with Logitech B910 as webcam and verify the settings in bold. Note that the **IP Video** field must be set to *y*.

```
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
                                    Time of Day Lock Table:
          Loss Group: 19
                                      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.**

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.

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.
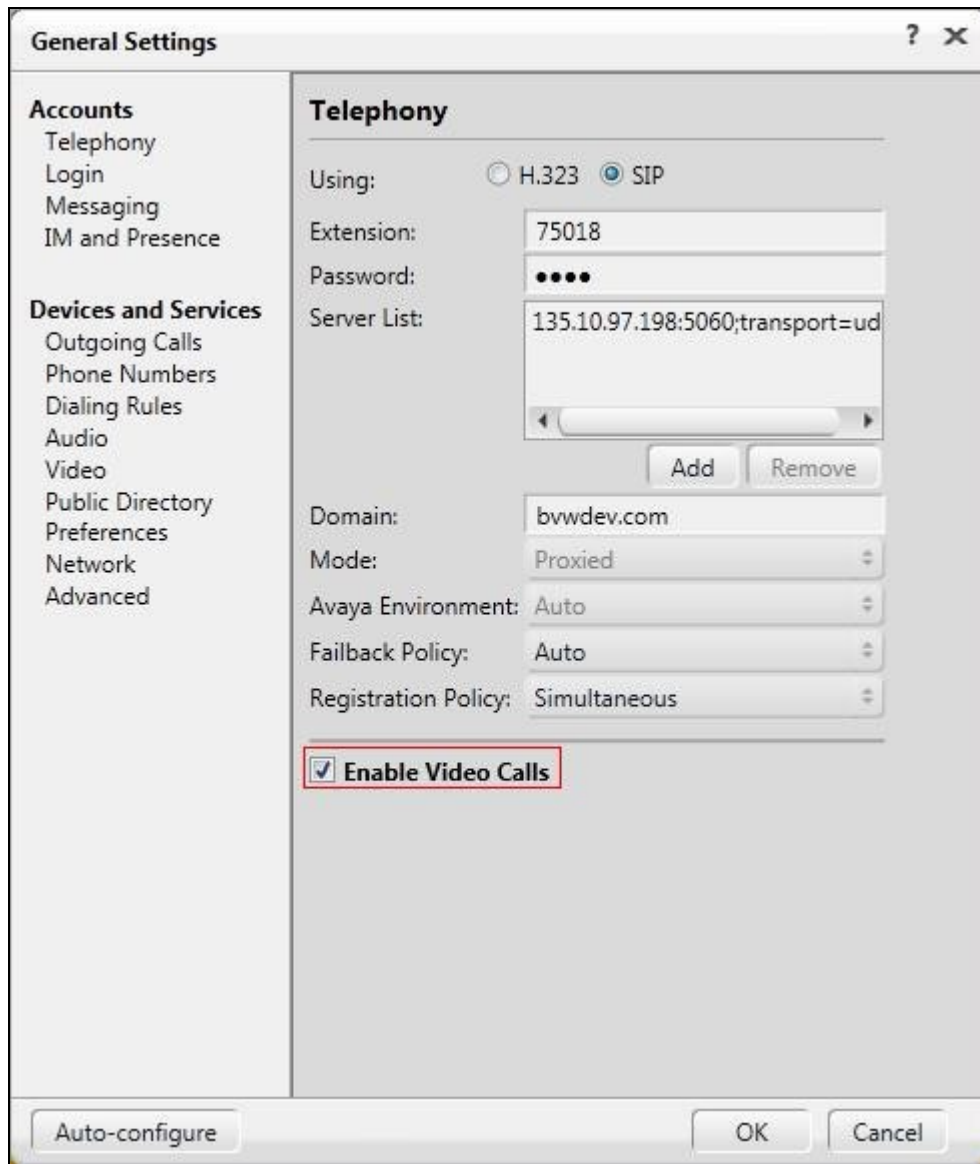
Figure 5: Telephony Setting

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**.
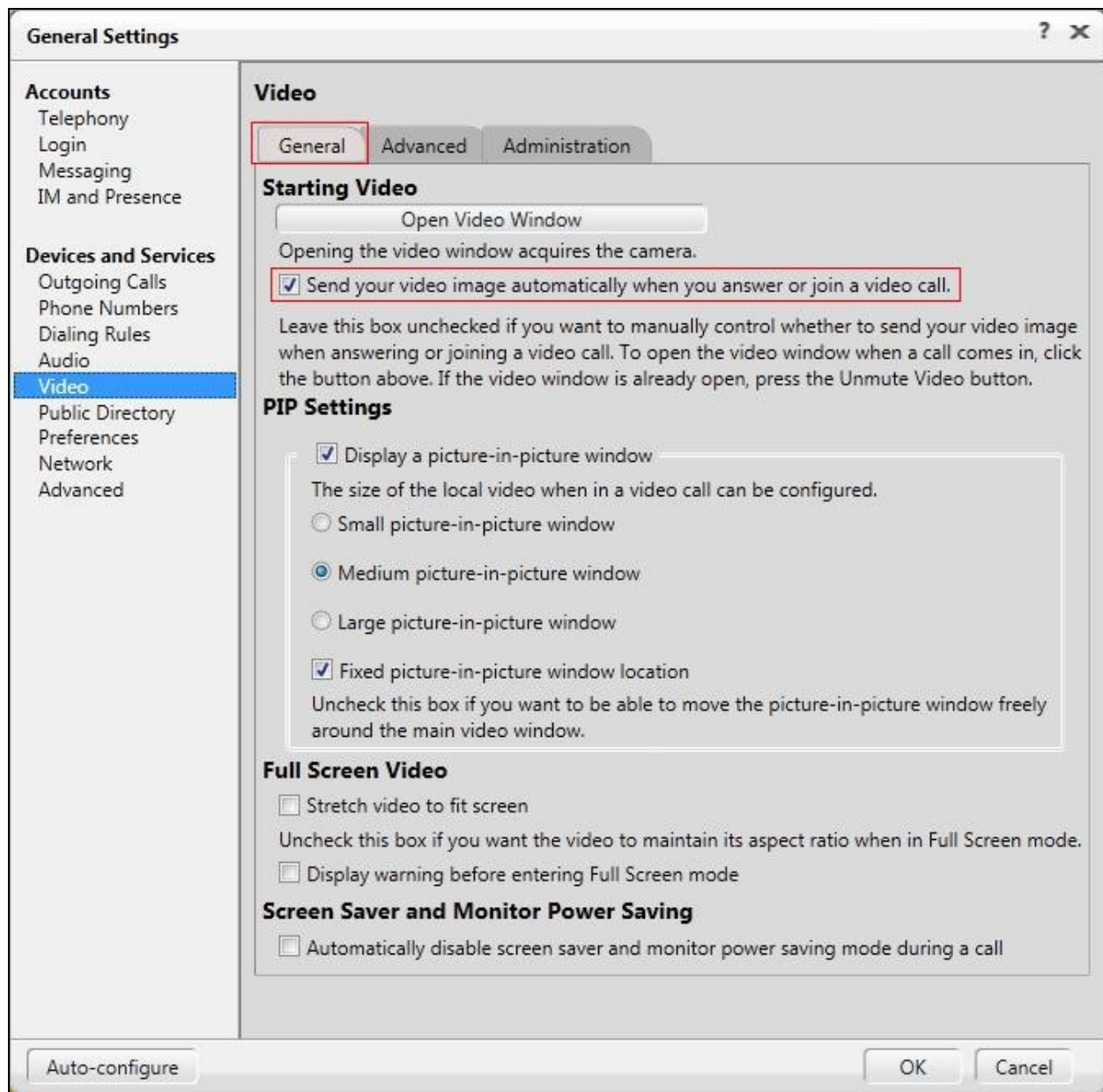
Figure 6: Video General Setting

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.**
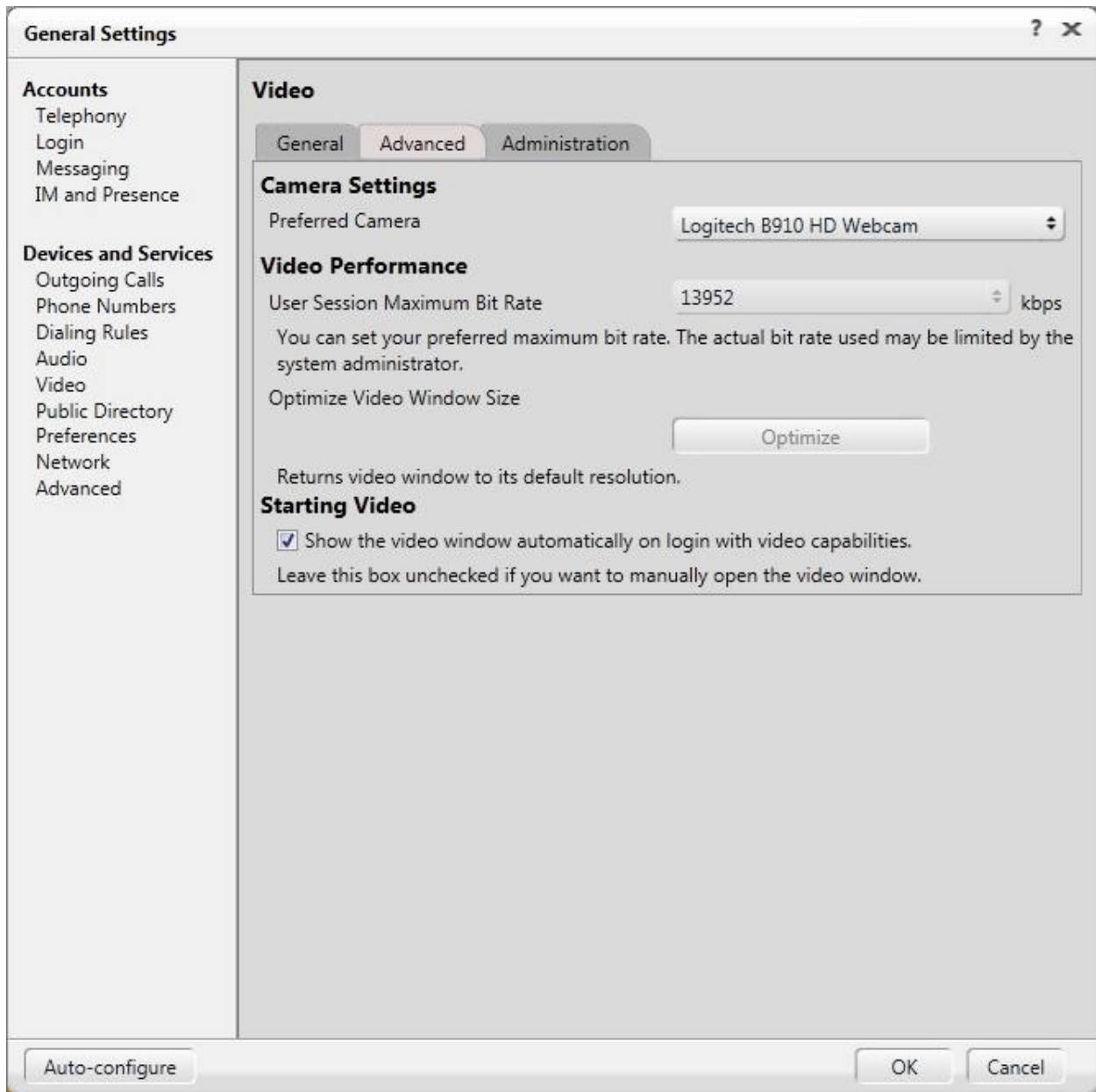
Note:

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**.
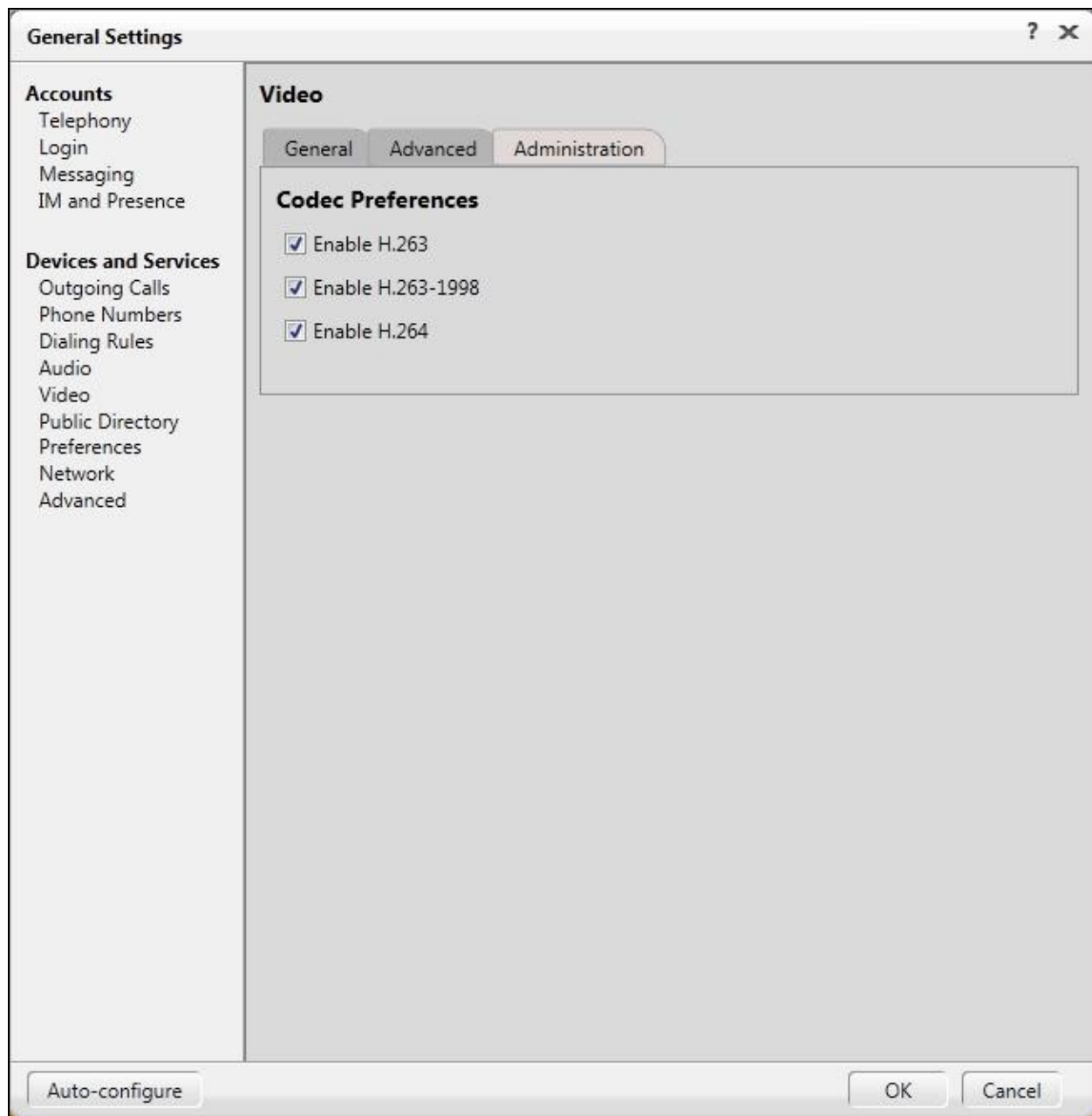
Figure 8: Video Administration Page

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

QT; Reviewed:
SPOC 12/13/2011

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