



Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Flying Voice Technology G502N Analogue Telephone Adapter with Avaya Aura® Session Manager 6.1 and Avaya Aura® Communication Manager 6.0.1 - Issue 1.0

Abstract

These Application Notes describe the configuration steps required for Flying Voice Technology G502N Analogue Telephone Adapter (ATA) to interoperate with Avaya Aura® Session Manager 6.1 and Avaya Aura® Communication Manager 6.0.1.

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 configure Flying Voice Technology G502N Analogue Telephone Adapter (ATA) to interoperate with an Avaya SIP infrastructure consisting of Avaya Aura® Session Manager 6.1 and Avaya Aura® Communication Manager 6.0.1. The Flying Voice G502N ATA allows standard analog telephones and fax machines to be connected to the Avaya SIP infrastructure.

2. General Test Approach and Test Results

To verify interoperability of Flying Voice G502N ATA with Session Manager and Communication Manager, calls were made between Flying Voice ATAs and Avaya SIP, H.323 and Digital telephones using various codec settings and exercising common PBX features.

2.1. Interoperability Compliance Testing

Interoperability compliance testing covered the following features and functionality:

- Successful registration of Flying Voice ATAs with Session Manager.
- Calls between Flying Voice ATAs and Avaya SIP, H.323, and digital telephones.
- G.711 and G.729A codec support and negotiation, with and without media shuffling.
- Basic features including answer / hang up, music on hold, DTMF transmission, Message Waiting Indicator (MWI) subscription and feature access code dialing.
- PBX features including Call Waiting, Hold and T.38 fax.
- Proper system recovery after a Flying Voice G502N restart and loss of IP connection.

2.2. Test Results

All test cases were executed. The following were observations on Flying Voice G502N from the compliance testing.

- For G.729A codec, calls with Avaya SIP users did not shuffle.
- For G.729A codec, calls between G502N ATAs did not shuffle.
- For outgoing calls, DTMF was sent in-band as the RFC2833 negotiation was not successful.
- G502N ATA is not able to light up the MWI on the analog phone attached.
- T.38 fax transmission was successfully completed at 9600bps.

2.3. Support

Technical support from Flying Voice Technology can be obtained through the following:

- Phone: +86-755-26099365
- E-mail: support@e3call.com

3. Reference Configuration

The diagram illustrates an enterprise site with an Avaya SIP-based network, including Session Manager, an S8800 Server running Communication Manager with a G450 Media Gateway, and Avaya SIP, H.323 and Digital endpoints. The enterprise site also contains two Flying Voice G502N ATAs with an Avaya analog phone and a fax machine connected to them respectively. The Flying Voice G502N ATAs are registered with Session Manager and are configured as endpoint users.

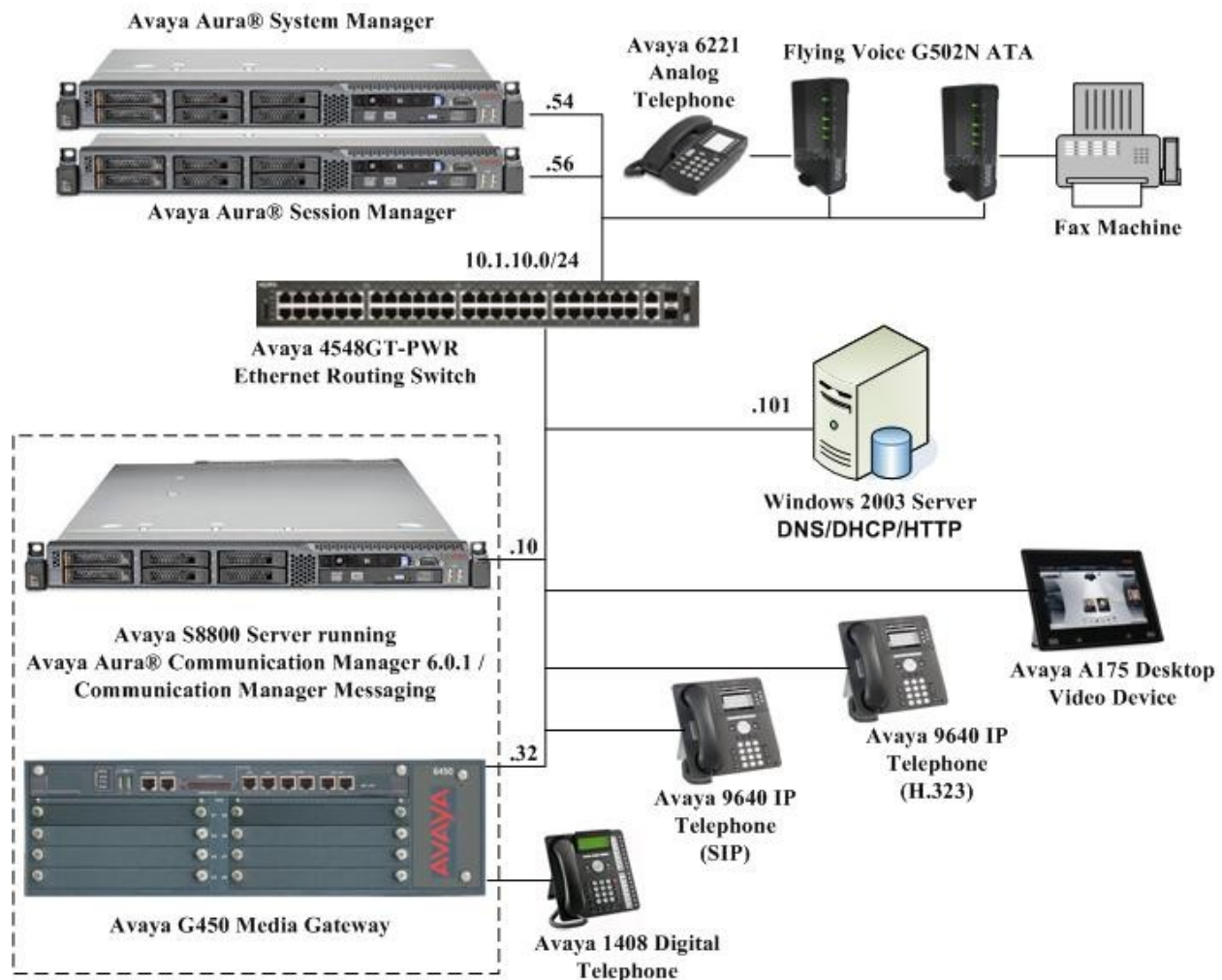


Figure 1: Flying Voice G502N ATAs with Avaya SIP Solution

Table 1 lists the extensions used for this testing.

Extension	Note
10099	Avaya 9640 IP Telephone (H.323)
10051	Avaya 9640 IP Telephone (SIP)
10016	Avaya 1408 Digital Telephone
10061	Avaya Desktop Video Device (ADVD) (SIP)
10065 to 10066	Flying Voice G502N ATAs

Table 1 – Extension Setup

4. Equipment and Software Validated

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

Equipment	Software
Avaya S8800 Server	Avaya Aura® Communication Manager 6.0.1 (Service Pack 4 00.1.510.1-19100) / Avaya Aura® Communication Manager Messaging 6.0.1
Avaya G450 Media Gateway	31.20.0
Avaya S8800 Server	Avaya Aura® Session Manager 6.1 Service Pack 2
Avaya S8800 Server	Avaya Aura® System Manager 6.1 Service Pack 2
Avaya 9600 Series IP Telephones	2.6.4.0 (SIP) 3.1 SP2 (H.323)
Avaya 1408 Digital Telephone	-
Avaya Desktop Video Device	1.0.3
Avaya 4548GT-PWR Ethernet Routing Switch	V5.4.0.008
Flying Voice G502N Analogue Telephone Adapters (ATA)	Hardware Version: 1.0.1 Firmware Version: 3.5.4 (110811233904) DSP Version: F1.21

5. Configure Avaya Aura® Session Manager

This section provides the procedures for configuring Session Manager. The procedures include the following areas:

- Launch System Manager
- Administer users

5.1. Launch Avaya Aura® System Manager

Access the System Manager Web interface by using the URL **https://ip-address** in an Internet browser window, where **ip-address** is the IP address of the System Manager server. Log in using the appropriate credentials.

The screenshot shows the Avaya Aura® System Manager 6.1 login interface. At the top, the Avaya logo is on the left and the title 'Avaya Aura® System Manager 6.1' is on the right. Below the title bar is a red navigation bar with 'Home / Log On'. The main heading is 'Log On'. On the left, a box contains instructions: 'Recommended access to System Manager is via FQDN.' followed by a link 'Go to central login for Single Sign-On'. Below this, it states 'If IP address access is your only option, then note that authentication will fail in the following cases:' and lists two bullet points: 'First time login with "admin" account' and 'Expired/Reset passwords'. To the right of this box are two input fields: 'User ID:' and 'Password:'. At the bottom right are 'Log On' and 'Cancel' buttons, and a 'Change Password' link at the very bottom right.

AVAYA Avaya Aura® System Manager 6.1

Home / Log On

Log On

Recommended access to System Manager is via FQDN.

[Go to central login for Single Sign-On](#)

If IP address access is your only option, then note that authentication will fail in the following cases:

- First time login with "admin" account
- Expired/Reset passwords

User ID:

Password:

Log On Cancel

[Change Password](#)

5.2. Administer Users

In the subsequent screen (not shown), select **Users** → **User Management** → **Manage Users** to display the **User Management** screen below. Click **New** to add a user.

The screenshot shows the Avaya Aura System Manager 6.1 User Management interface. The top navigation bar includes the Avaya logo, the title 'Avaya Aura® System Manager 6.1', and links for 'Help | About | Change Password | Log off admin'. Below this, there's a breadcrumb trail: 'Home / Users / User Management / Manage Users- User Management'. The left sidebar contains a 'User Management' dropdown menu with options: 'Manage Users' (highlighted), 'Public Contacts', 'Shared Addresses', and 'System Presence ACLs'. The main content area is titled 'User Management' and features a 'Users' section with buttons for 'View', 'Edit', 'New' (circled in red), 'Duplicate', 'Delete', and 'More Actions'. Below these buttons, there's a table with 22 items, showing a list of users. The table has columns for 'Status', 'Name', 'Login Name', 'E164 Handle', and 'Last Login'. The 'New' button is circled in red, indicating the action to be taken.

	Status	Name	Login Name	E164 Handle	Last Login
<input type="checkbox"/>		1XC SIPUser1	10063@sglab.com	10063	
<input type="checkbox"/>		1XC SIPUser2	10064@sglab.com	10064	
<input type="checkbox"/>		ADVD User1	10061@sglab.com	10061	
<input type="checkbox"/>		ADVD User2	10062@sglab.com	10062	
<input type="checkbox"/>		Avaya, SIP1	10051@sglab.com	10051	

5.2.1. Identity

The **New User Profile** screen is displayed. Enter desired **Last Name** and **First Name**. For **Login Name**, enter **n@x**, where **n** is the first G502N user extension and **x** is the domain name used for compliance testing, in this case **sglab.com**. For **Password** and **Confirm Password**, enter the appropriate credentials to use for System Manager. Retain the default values in the remaining fields.

AVAYA Avaya Aura® System Manager 6.1 [Help](#) | [About](#) | [Change Password](#) | [Log off admin](#)

[User Management](#) * [Session Manager](#) * [Home](#)

Home / Users / User Management / Manage Users - New User Profile [Help ?](#)

New User Profile [Commit](#) [Cancel](#)

Identity * **Communication Profile** * **Membership** **Contacts**

Identity ▾

* **Last Name:**

* **First Name:**

Middle Name:

Description:

* **Login Name:**

* **Authentication Type:** ▾

* **Password:**

* **Confirm Password:**

5.2.2. Communication Profile

Select the **Communication Profile** tab. For **Communication Profile Password** and **Confirm Password**, enter the desired password for the SIP user to use for registration. Scroll down to the **Communication Address** sub-section, and click **New** to add a new address.

Avaya Aura® System Manager 6.1

Help | About | Change Password | Log off admin

User Management * Home

Home / Users / User Management / Manage Users- New User Profile

Help ?

New User Profile

Commit Cancel

Identity * Communication Profile * Membership Contacts

Communication Profile

Communication Profile Password:

Confirm Password:

New Delete Done Cancel

Name

☒ Primary

Select : None

* Name: Primary

Default : ☒

Communication Address

New Edit Delete

Type	Handle	Domain
No Records found		

For **Type**, retain **Avaya SIP**. For **Fully Qualified Address**, enter and select the SIP user extension and domain name from **Section 5.2.1**. Click **Add**.

Communication Address

New Edit Delete

Type	Handle	Domain
No Records found		

Type: Avaya SIP

* Fully Qualified Address: 10065 @ sglab.com

Add Cancel

Scroll down to check and expand **Session Manager Profile**. For **Primary Session Manager**, **Origination Application Sequence**, **Termination Application Sequence**, and **Home Location**, select the values corresponding to the applicable Session Manager. Retain the default values in the remaining fields. These settings are configured during the initial setup of Session Manager.

Scroll down to check and expand **Endpoint Profile**. For **System**, select the value corresponding to the applicable Communication Manager. For **Extension**, enter the SIP user extension from **Section 5.2.1**. For **Template**, select **DEFAULT_9630SIP_CM_6_0**. For **Port**, select **IP**. Retain the default values in the remaining fields.

☒ **Session Manager Profile**

* **Primary Session Manager**

me1-sm

Primary	Secondary	Maximum
22	0	22

Secondary Session Manager

(None)

Primary	Secondary	Maximum

Origination Application Sequence

me1-cm-app-seq

Termination Application Sequence

me1-cm-app-seq

Survivability Server

(None)

* **Home Location**

Location1

☒ **Endpoint Profile**

* **System**

me1-cm

* **Profile Type**

Endpoint

Use Existing Endpoints

☐

* **Extension**

10065

Endpoint Editor

* **Template**

DEFAULT_9630SIP_CM_6_0

Set Type

9630SIP

Security Code

* **Port**

IP

Voice Mail Number

Delete Endpoint on Unassign of Endpoint from User or on Delete User.

☐

Click **Commit** to complete the creation of the new user (not shown).

Repeat **Section 5.2** to add a user for each Flying Voice G502N user. In the compliance testing, two users with extensions **10065** and **10066** were added.

6. Configure Avaya Aura® Communication Manager

This section provides the procedures for configuring Communication Manager. The procedures include the following areas:

- Verify Communication Manager license
- Administer IP codec set

6.1. Verify Avaya Aura® Communication Manager License

Log in to the System Access Terminal (SAT) to verify that the Communication Manager license has proper permissions for features illustrated in these Application Notes. Use the **display system-parameters customer-options** command to verify that there is sufficient capacity for SIP stations by comparing the **Maximum Off-PBX Telephones - OPS** field value with the corresponding value in the **USED** column. The difference between the two values needs to be greater than or equal to the number of Flying Voice G502N ATA extensions.

The license file installed on the system controls the maximum permitted. If there is insufficient capacity, contact an authorized Avaya sales representative to make the appropriate changes.

```
display system-parameters customer-options                               Page 1 of 11
                                OPTIONAL FEATURES

G3 Version: V16                                     Software Package: Enterprise
Location: 2                                           System ID (SID): 1
Platform: 28                                          Module ID (MID): 1

                                USED
Platform Maximum Ports: 6400 281
Maximum Stations: 1000 173
Maximum XMOBILE Stations: 2400 0
Maximum Off-PBX Telephones - EC500: 250 0
Maximum Off-PBX Telephones - OPS: 1000 32
Maximum Off-PBX Telephones - PBFMC: 250 0
Maximum Off-PBX Telephones - PVFMC: 250 0
Maximum Off-PBX Telephones - SCCAN: 0 0
Maximum Survivable Processors: 10 1

(NOTE: You must logoff & login to effect the permission changes.)
```

6.2. Administer IP Codec Set

Use the **change ip-codec-set n** command, where **n** is the existing codec set number associated with the SIP trunk group to Session Manager. Update the audio codec types in the **Audio Codec** fields as necessary to include G.711A, G.711MU and G.729AB.

change ip-codec-set 6

Page 1 of 2

IP Codec Set

Codec Set: 6

Audio	Silence	Frames	Packet
Codec	Suppression	Per Pkt	Size(ms)
1: G.711MU	n	2	20
2: G.711A	n	2	20
3: G.729AB	n	2	20
4:			

7. Configure Flying Voice G502N ATAs

This section provides the procedures for configuring Flying Voice G502N ATAs. The procedures include the following areas:

- Access Web Interface
- Configure SIP Account

7.1. Access Web Interface

Enter the IP address of the G502N ATA into the address bar of web browser and log in using a valid account. The **Status** screen is displayed.

The screenshot displays the 'VOIP-ATA ... control panel' web interface. The top navigation bar includes tabs for 'Status', 'Network', 'SIP', 'FXS1', 'FXS2', and 'Administration'. The 'Status' tab is active, showing sub-tabs for 'Basic', 'DHCP', and 'Syslog'. The main content area is divided into three sections: 'Product Information', 'SIP Account Status', and 'Net Status'. The 'Product Information' section lists details such as Product Name (VOIP-ATA), Serial Number, MAC addresses, and versions. The 'SIP Account Status' section shows the registration state for FXS1 (Registered) and FXS2 (Fail). The 'Net Status' section is currently empty. A 'Help' sidebar on the right provides descriptions for the 'Product Information', 'SIP Account Status', 'Net Status', and 'System Status' sections. The top right corner of the interface displays system information including Firmware Version (3.5.4), DSP Version (F1.21), Current Time (Oct 28 15:00:00 2011), and an Admin Mode [Switch] link.

Product Information	
Product Name	VOIP-ATA
Serial Number	
Internet(WAN) MAC Address	00:21:F2:04:30:E9
PC(LAN) MAC Address	00:21:F2:04:30:E8
Hardware Version	1.0.1
Firmware Version	3.5.4 (110811233904)
DSP Version	F1.21

SIP Account Status	
FXS1 SIP Account Registration State	Registered
FXS2 SIP Account Registration State	Fail

Net Status	
------------	--

Help
Product Information:
It shows the basic information of the product.
SIP Account Status:
It shows the register status of SIP Account.
Net Status:
It shows the information of WAN port, VPN and LAN port.
System Status:
It shows the current time and the running time of the product.

7.2. Configure SIP Account

Select **FXS1** → **SIP Account** from the top menu. Set the **Account Enable** field to **Enable**. Enter the IP address of Session Manager signaling interface as shown in **Figure 1** for the **SIP Server** field. For the fields **Account**, **Phone Number** and **Password**, enter the account details as shown below to match the User settings in Session Manager added in **Section 5.2**.

In the **Codec Setup** section, prioritize the audio codecs accordingly.

The screenshot displays the VOIP-ATA control panel interface. At the top, the status bar shows 'Firmware Version: 3.5.4 (110811233904)', 'DSP Version: F1.21', and 'Current Time: Oct 28 15:08:09 2011'. The main navigation bar includes tabs for 'Status', 'Network', 'SIP', 'FXS1', 'FXS2', and 'Administration'. Below this, a sub-navigation bar shows 'SIP Account', 'Preferences', 'Regional', 'Dialling Rules', 'Blacklist', and 'Call Log'. The 'SIP Account' section is active, showing a 'Basic Setup' tab. The 'Basic Setup' section contains fields for 'Account Enable' (set to 'Enable'), 'Display Name' (G502-One), 'Account' (10065), 'SIP Server' (10.1.10.56), 'Outbound Proxy', 'Backup Outbound Proxy', 'Use VPN' (set to 'Disable'), 'Peer To Peer' (set to 'Disable'), 'Phone Number' (10065), 'Password' (masked with dots), 'SIP Port' (5060), 'Outbound Port' (5060), and 'Backup Outbound Port' (5060). To the right of the 'Basic Setup' section is a 'Help' section with 'Basic:', 'Audio:', 'Advanced:', and 'Encryption:' subsections. The 'Audio' section is expanded, showing a 'Codec Setup' tab. The 'Codec Setup' section contains fields for 'Audio Codec Type 1' (G.711A), 'Audio Codec Type 2' (G.711U), 'Audio Codec Type 3' (G.729), 'Audio Codec Type 4' (G.723), 'Packet Cycle(ms)' (20ms), 'G.723 Coding Speed' (5.3k bps), 'Min Jitter Delay(ms)' (0), 'Max Jitter Delay(ms)' (80), 'Silence Supp Enable' (set to 'Disable'), 'Echo Cancel' (set to 'Enable'), 'T.38 Enable' (set to 'Enable'), and 'T.38 Redundancy' (0).

VOIP-ATA ... control panel			
Firmware Version: 3.5.4 (110811233904)		DSP Version: F1.21	
Current Time: Oct 28 15:08:09 2011		Admin Mode [Switch]	
Status	Network	SIP	FXS1
SIP Account Preferences Regional Dialling Rules Blacklist Call Log			
Basic			
Basic Setup			
Account Enable	Enable	Peer To Peer	Disable
Display Name	G502-One	Phone Number	10065
Account	10065	Password	*****
SIP Server	10.1.10.56	SIP Port	5060
Outbound Proxy		Outbound Port	5060
Backup Outbound Proxy		Backup Outbound Port	5060
Use VPN	Disable		
Audio			
Codec Setup			
Audio Codec Type 1	G.711A	Audio Codec Type 2	G.711U
Audio Codec Type 3	G.729	Audio Codec Type 4	G.723
Packet Cycle(ms)	20ms	G.723 Coding Speed	5.3k bps
Min Jitter Delay(ms)	0	Max Jitter Delay(ms)	80
Silence Supp Enable	Disable	Echo Cancel	Enable
T.38 Enable	Enable	T.38 Redundancy	0
Help			
Basic: Set the basic information provided by your VOIP Service Provider, such as Phone Number, Account, password, SIP Proxy and so on.			
Audio: Select the audio Codec you want to use.			
Advanced: The Advanced parameters for Administrator.			
Encryption: Select the encryption method you want to use for signal and RTP/RTCP.			

In the **Advanced Setup** section, set **DTMF Type** to **RFC2833**. The rest of the fields can be left at their default values. Click **Save Settings**, then followed by **Reboot** to restart the phone. This completes the configuration required for Flying Voice G502N ATAs.

The screenshot shows the 'Advanced Setup' configuration page. The 'DTMF Type' is set to 'RFC2833'. Other settings include: Domain Name Type (Enable), Signal Port (5060), RFC2833 Payload(>=96) (101), RTP Port (0), Keep-alive Interval(10-60s) (45), Session Refresh Time(sec) (0), Carry Port Information (Enable), Register Refresh Interval(sec) (3600), Cancel Message Enable (Disable), SIP Ping Enable (Disable), Refresher (uac), and Prack Enable (Disable).

Advanced Setup	
Domain Name Type	Enable
Signal Port	5060
RFC2833 Payload(>=96)	101
RTP Port	0
Keep-alive Interval(10-60s)	45
Session Refresh Time(sec)	0
Prack Enable	Disable
Carry Port Information	Enable
DTMF Type	RFC2833
Register Refresh Interval(sec)	3600
Cancel Message Enable	Disable
SIP Ping Enable	Disable
Refresher	uac

Select **FXS1 → Preferences** from the top menu. In the **Supplementary Service** section, set the **MWI Enable** field to **Enable**.

The screenshot shows the 'VoIP-ATA ... control panel' with the 'FXS1' tab selected. The 'Preferences' sub-tab is active. The 'Supplementary Service' section shows 'MWI' set to 'Enable'. Other settings include: Input Gain (6), Output Gain (6), Call Forward settings (all disabled), Speed Dial settings (all empty), and CW Setting (Enable).

Preferences	
Audio & LCD	
Input Gain	6
Output Gain	6
Call Forward	
Cfwd All	Disable
Cfwd Busy	Disable
Cfwd No Ans	Disable
Cfwd No Ans Delay	10
Cfwd All Dest	
Cfwd Busy Dest	
Cfwd No Ans Dest	
Speed Dial	
Speed Dial 2	
Speed Dial 4	
Speed Dial 6	
Speed Dial 8	
Speed Dial 3	
Speed Dial 5	
Speed Dial 7	
Speed Dial 9	
Supplementary Service	
CW Setting	Enable
Feature Code Setting	Enable
Call Hold Setting	Enable
MWI	Enable

8. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Session Manager and Flying Voice G502N ATAs. From the System Manager Web interface, select **Elements → Session Manager → System Status → User Registrations** to display the **User Registrations** screen. Verify that the users from **Section 5.2** are registered, as shown below with a check in the **Registered Prim** column.

Avaya Aura® System Manager 6.1 Help | About | Change Password | Log off admin

[Session Manager](#) [Home](#)

Home / Elements / Session Manager / System Status / User Registrations - User Registrations [Help ?](#)

User Registrations

Select rows to send notifications to AST devices. Click on Details column for complete registration status.

AST Device Notifications: [Reboot](#) [Reload](#) [Failback](#) As of 2:09 PM [Advanced Search](#)

2 Items Found Refresh Show ALL Filter: Disable, Apply, Clear

	Details	Address	Login Name	First Name	Last Name	Location	IP Address	AST Device	Registered		
									Prim	Sec	Surv
<input type="checkbox"/>	Show	10065@sglab.com	10065@sglab.com	One	G502N	Location1	10.1.10.162:5060	<input type="checkbox"/>	<input checked="" type="checkbox"/> (AC)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Show	10066@sglab.com	10066@sglab.com	Two	G502N	Location1	10.1.10.170:5060	<input type="checkbox"/>	<input checked="" type="checkbox"/> (AC)	<input type="checkbox"/>	<input type="checkbox"/>

From the web interface of the Flying Voice G502N ATA, click **Status → Basic** from the top menu. Verify that the SIP Account status for **FXS1 SIP Account Registration State** shows as **Registered**.

VOIP-ATA ... control panel

Firmware Version: 3.5.4 (110811233904)
DSP Version: F1.21
Current Time: Oct 28 15:23:05 2011
Admin Mode [\[Switch\]](#)

[Status](#) [Network](#) [SIP](#) [FXS1](#) [FXS2](#) [Administration](#)

[Basic](#) [DHCP](#) [Syslog](#)

Product Information

Product Information

Product Name	VOIP-ATA
Serial Number	
Internet(WAN) MAC Address	00:21:F2:04:30:E9
PC(LAN) MAC Address	00:21:F2:04:30:E8
Hardware Version	1.0.1
Firmware Version	3.5.4 (110811233904)
DSP Version	F1.21

SIP Account Status

SIP Account Status

FXS1 SIP Account Registration State	Registered
-------------------------------------	------------

Help

Product Information:
It shows the basic information of the product.

SIP Account Status:
It shows the register status of SIP Account.

Net Status:
It shows the information of WAN port, VPN and LAN port.

System Status:
It shows the current time and the running time of the product.

9. Conclusion

These Application Notes describe the configuration steps required for Flying Voice Technology G502N Analogue Telephone Adapters (ATA) to successfully interoperate with Avaya Aura® Session Manager 6.1 and Avaya Aura® Communication Manager 6.0.1. All feature and serviceability test cases were completed with observations noted in **Section 2.2**.

10. Additional References

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

- [1] *Administering Avaya Aura® Communication Manager*, Release 6.0, Doc ID 03-300509, June 2010.
- [2] *Administering Avaya Aura® Session Manager*, Release 6.1, Doc ID 03-603324, Issue 1, November 2010.

The following the App Notes will be shipped with the product by Flying Voice Technology.

- [3] *Flying Voice G502 User Manual*, V1.4, February 2011

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