

Avaya Solution & Interoperability Test Lab

Application Notes for Configuring G-Tek/AEi Communications SKD-1203 SIP Phone with Avaya Aura® Session Manager 6.3 and Avaya Aura® Communication Manager 6.3 - Issue 1.0

Abstract

These Application Notes describe the configuration steps required for G-Tek/AEi Communications SKD-1203 SIP Phone to interoperate with Avaya Aura® Session Manager 6.3 and Avaya Aura® Communication Manager 6.3.

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 G-Tek/AEi Communications SKD-1203 SIP Phone to interoperate within an Avaya SIP infrastructure consisting of Avaya Aura® Session Manager 6.3 and Avaya Aura® Communication Manager 6.3. G-Tek/AEi SKD-1203 is an IP phones for the hospitality industry.

2. General Test Approach and Test Results

To verify interoperability of G-Tek/AEi SKD-1203 phone with Session Manager and Communication Manager, calls were made between G-Tek/AEi telephones and Avaya SIP, H.323, analog and digital telephones using various codec settings and exercising common PBX features. Calls were also made to and from the PSTN and various telephony features were activated and deactivated using speed-dial buttons.

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

Interoperability compliance testing covered the following features and functionality:

- Successful registration of G-Tek/AEi SKD-1203 SIP Phones with Session Manager.
- Calls between G-Tek/AEi telephones and Avaya SIP, H.323, analog, and digital telephones.
- G.711Mu, G.711A and G729 codec support and negotiation.
- Basic features including phone display, mute/un-mute, answer, hang up, music on hold, DTMF transmission, Message Waiting Indicator (MWI) subscription and feature access code dialing.
- PBX features including Multiple Call Appearances, Hold/Resume, Transfer, and Conference.
- Proper system recovery after a G-Tek/AEi telephone restart and loss of IP connection.

2.2. Test Results

All test cases were executed and passed successfully.

2.3. Support

Technical support from G-Tek/AEi Communications can be obtained through the following:

• Phone: +1-650-552-9416

• E-mail: techsupport@aeicommunications.com

3. Reference Configuration

The diagram illustrates an enterprise site with an Avaya SIP-based network, including Session Manager, an S8300 Board installed in an Avaya G450 Media Gateway running Communication Manager, and Avaya SIP, H.323, analog, and digital endpoints. Two G-Tek/AEi SKD-1203 SIP Phones, registered with Session Manager, were also used during the compliance test.

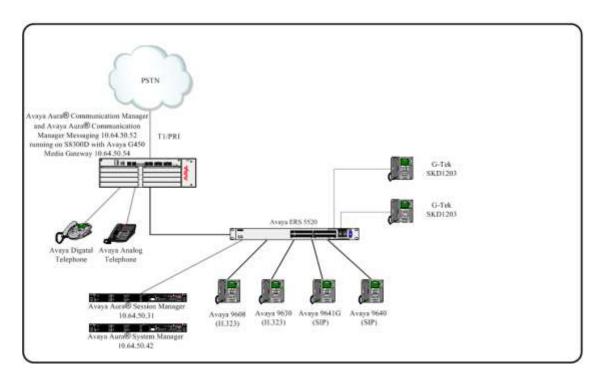


Figure 1: G-Tek SKD-1203 SIP Phone Reference Configuration

4. Equipment and Software Validated

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

Equipment	Software/Firmware
Avaya PBX Products	
Avaya Aura® Communication Manager	6.3 SP6
Avaya Aura® Session Manager	6.3.8
Avaya Messaging (Voice Mail) Products	
Avaya Aura® Communication Manager Messaging	6.3 SP6
Avaya Endpoints	
Avaya 96xx Series IP Deskphone	(H.323 3.2) (SIP 2.6)
Avaya 96x1 Series IP Deskphone	(H.323 6.4) (SIP 6.4)
Avaya Digital Telephone	R39
Avaya Analog Telephone	NA
G-Tek Products	
SKD-1203	1811X.16.3.0F5

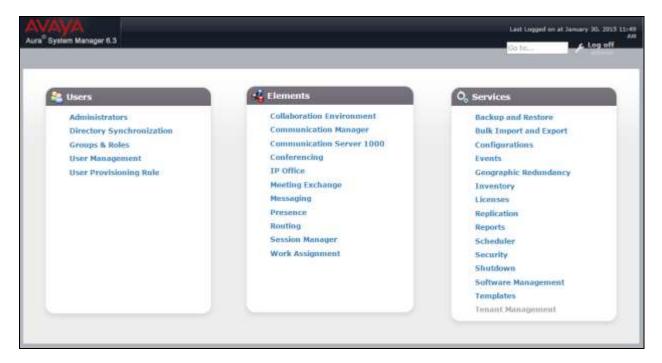
5. Configure Avaya Aura® Session Manager

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

- Launch System Manager
- Administer users

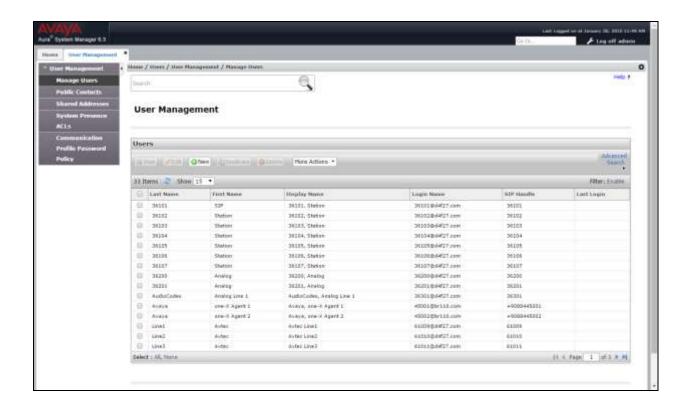
5.1. Launch System Manager

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 and the following screen should be displayed.



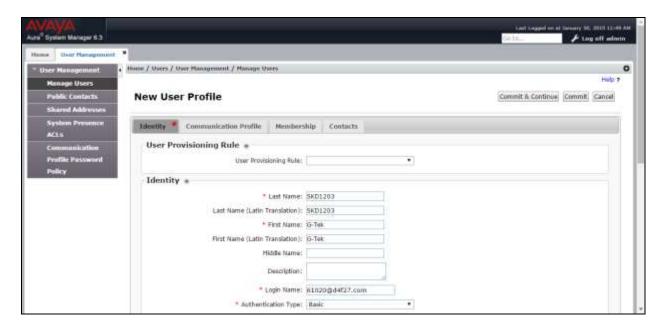
5.2. Administer Users

From the main screen select Users → User Management → Manage Users to display the User Management screen below. Click New to add a user.



5.2.1. Identity

The **New User Profile** screen is displayed. Enter desired **Last Name** and **First Name**. For **Login Name**, enter "n@z", where "n" is the first G-Tek/AEi SKD-1203 user extension and "z" is the domain name used for compliance testing, in this case "**d4f27.com**". Retain the default values in the remaining fields.



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.

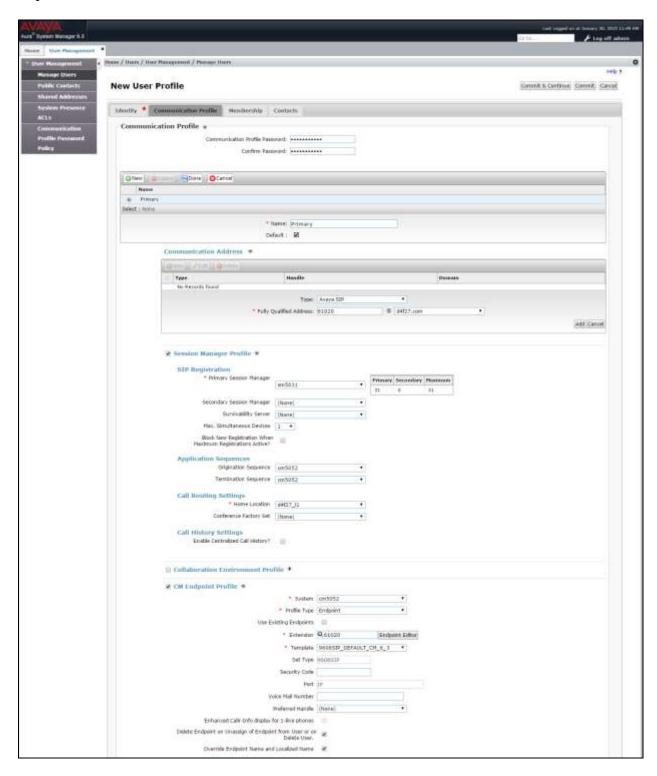
For **Type**, retain "Avaya SIP". For **Fully Qualified Address**, enter and select the SIP user extension and domain name from **Section 5.2.1**. Click **Add**.

Scroll down to check and expand **Session Manager Profile**. For **Primary Session Manager**, **Origination Sequence**, **Termination 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 **CM 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 "**9608SIP_DEFAULT_CM_6_3**". Retain the default values in the remaining fields.

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

Repeat Section 5.2 to add a user for each G-Tek/AEi SKD-1203.



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 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 G-Tek/AEi SKD-1203 SIP Phone 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.

```
1 of 11
display system-parameters customer-options
                                                              Page
                               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 126
                                   Maximum Stations: 2400 60
                             Maximum XMOBILE Stations: 2400 0
                   Maximum Off-PBX Telephones - EC500: 9600 0
                   Maximum Off-PBX Telephones - OPS: 9600 29
                   Maximum Off-PBX Telephones - PBFMC: 9600 0
                   Maximum Off-PBX Telephones - PVFMC: 9600 0
                   Maximum Off-PBX Telephones - SCCAN: 0
                        Maximum Survivable Processors: 313
        (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.711MU, G.711A, and G.729.

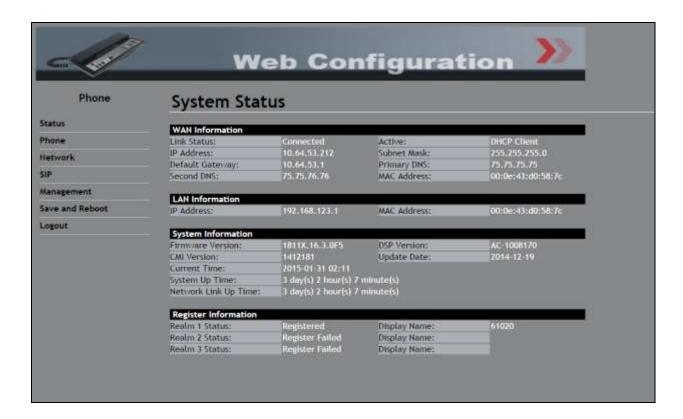
7. Configure G-Tek/AEi SKD-1203SIP Phone

This section provides the procedures for configuring G-Tek/AEi SKD-1203 SIP Phone. The procedures include the following areas:

- Access Web Interface
- Configure SIP Account and DTMF Settings
- Configure Audio Codecs
- Configure Tone Settings
- Reboot after configuration

7.1. Access Web Interface

Enter <a href="http://<ip-addr>:8000/">http://<ip-addr>:8000/, where <ip-addr> is the IP address of the G-Tek/AEi phone, into the address bar of web browser and log in using a valid account. The **System Status** screen is displayed.



7.2. Configure SIP Account and DTMF Settings

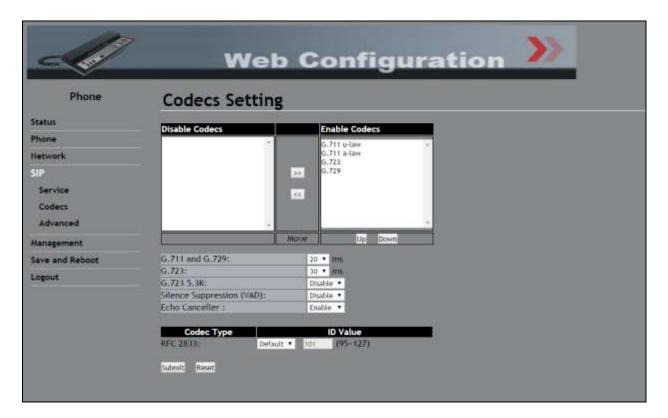
Select SIP → Service from the left menu. Set the Realm Active: field to Enable. Enter username configured on Session Manager for Display Name:, Phone Number:, and Authentication ID:. Provide user password for Authentication Password:. In the Domain Server and Proxy Server fields enter the IP Address of Session Manager's signaling interface. Set Subscribe for MWI: to Enable.



7.3. Configure Audio Codecs

Select SIP \rightarrow Codecs from the left menu. In the Codec Settings section, verify that the required codes are moved to the Enable Codecs box and are prioritized accordingly.

Click **Submit** to continue.



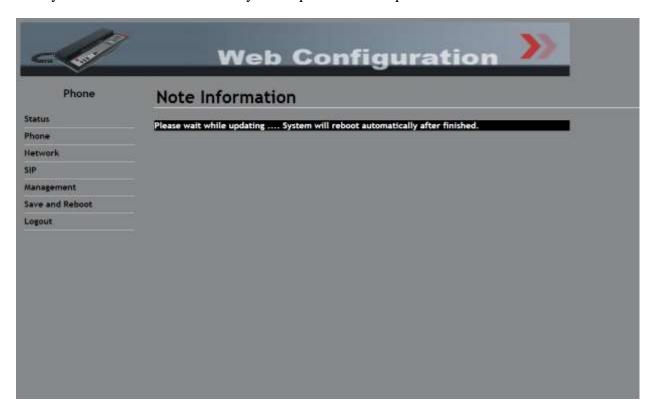
7.4. Reboot after configuration

Select **Save and Reboot** from the left menu to reboot the phone after setting the various parameters.

Click the Save button.



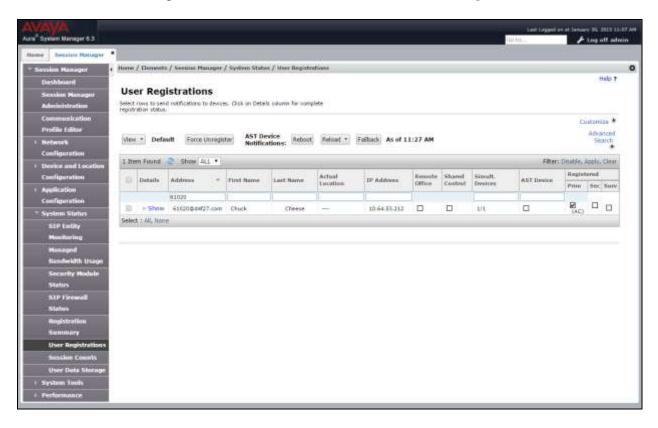
The system will reboot automatically after updates are complete.



8. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Session Manager and G-Tek/AEi SKD-1203 SIP Phones.

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.



From the web interface of the G-Tek/AEi SKD-1203 phone, click **Status** from the left menu. Verify that the **Realm 1 Status**: field shows **Registered**.



9. Conclusion

These Application Notes describe the configuration steps required for G-Tek/AEi Communications SKD-1203 SIP Phones to successfully interoperate with Avaya Aura® Session Manager 6.3 and Avaya Aura® Communication Manager 6.3. All feature and serviceability test cases were completed successfully.

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, Document 03-300509
- [2] Administering Avaya Aura® Session Manager, Document 03-603324

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