



## **Configuring ISDN-PRI connectivity between Avaya Communication Manager and Avaya Meeting Exchange (S6200) - Issue 1.0**

### **Abstract**

These Application Notes present the provisioning required for configuring ISDN-PRI connectivity between Avaya Communication Manager and Avaya Meeting Exchange (S6200). By employing this configuration, calls originating from Avaya Communication Manager may be terminated on Avaya Meeting Exchange (i.e., 'Dial-In'). Conversely, call origination from Avaya Meeting Exchange to Avaya Communication Manager (i.e., 'Dial-Out') is also supported. ISDN-PRI connectivity is enabled via utilization of an AudioCodes TrunkPack (TP)-260/SIP PCI Media Gateway Board. This configuration leverages the flexibility offered by Avaya Communication Manager to support a rich set of conferencing options provided by Avaya Meeting Exchange.

# 1. Introduction

These Application Notes present the provisioning required for configuring ISDN-PRI connectivity between Avaya Communication Manager and Avaya Meeting Exchange (S6200). By employing this configuration, calls originating from Avaya Communication Manager may be terminated on Avaya Meeting Exchange (i.e., 'Dial-In'). Conversely, call origination from Avaya Meeting Exchange to Avaya Communication Manager (i.e., 'Dial-Out') is also supported. ISDN-PRI connectivity is enabled via utilization of an AudioCodes TrunkPack (TP)-260/SIP PCI Media Gateway Board. This configuration leverages the flexibility offered by Avaya Communication Manager to support a rich set of conferencing options provided by Avaya Meeting Exchange.

Note the convention for Dial-In/Dial-Out assigns Avaya Meeting Exchange as the point of reference; e.g., *Dial-In to Avaya Meeting Exchange*, *Dial-Out from Avaya Meeting Exchange*.

This configuration maximizes the inherent flexibility of protocols supported on Avaya Communication Manager by enabling any station or trunk type associated with Avaya Communication Manager to interoperate with Avaya Meeting Exchange. Also, Avaya Meeting Exchange supports a rich selection of features to enable a wide selection of conferencing requirements.

The following applications have been verified for Dial-In conferencing:

- ON DEMAND
  - With a DNIS **scan** function provisioned (e.g., conferees enter a conference with a passcode).
- FLEX
  - With a DNIS **scan** function provisioned (e.g., conferees enter a conference with a passcode).
- UNATTENDED
  - With a DNIS **direct** function provisioned (e.g., conferees enter a conference as moderator without a passcode).
  - With a DNIS **direct** function provisioned and Auto Blast feature enabled. (e.g. a conferee enters a conference as moderator without a passcode and simultaneously initiates an Auto Blast Dial to a pre-provisioned FastDialList. Conferees on the FastDialList are automatically entered into the conference without a passcode. This conference remains open for others to join via passcode.
  - With a DNIS **scan** function provisioned (e.g., passcode required).
- ATTENDED

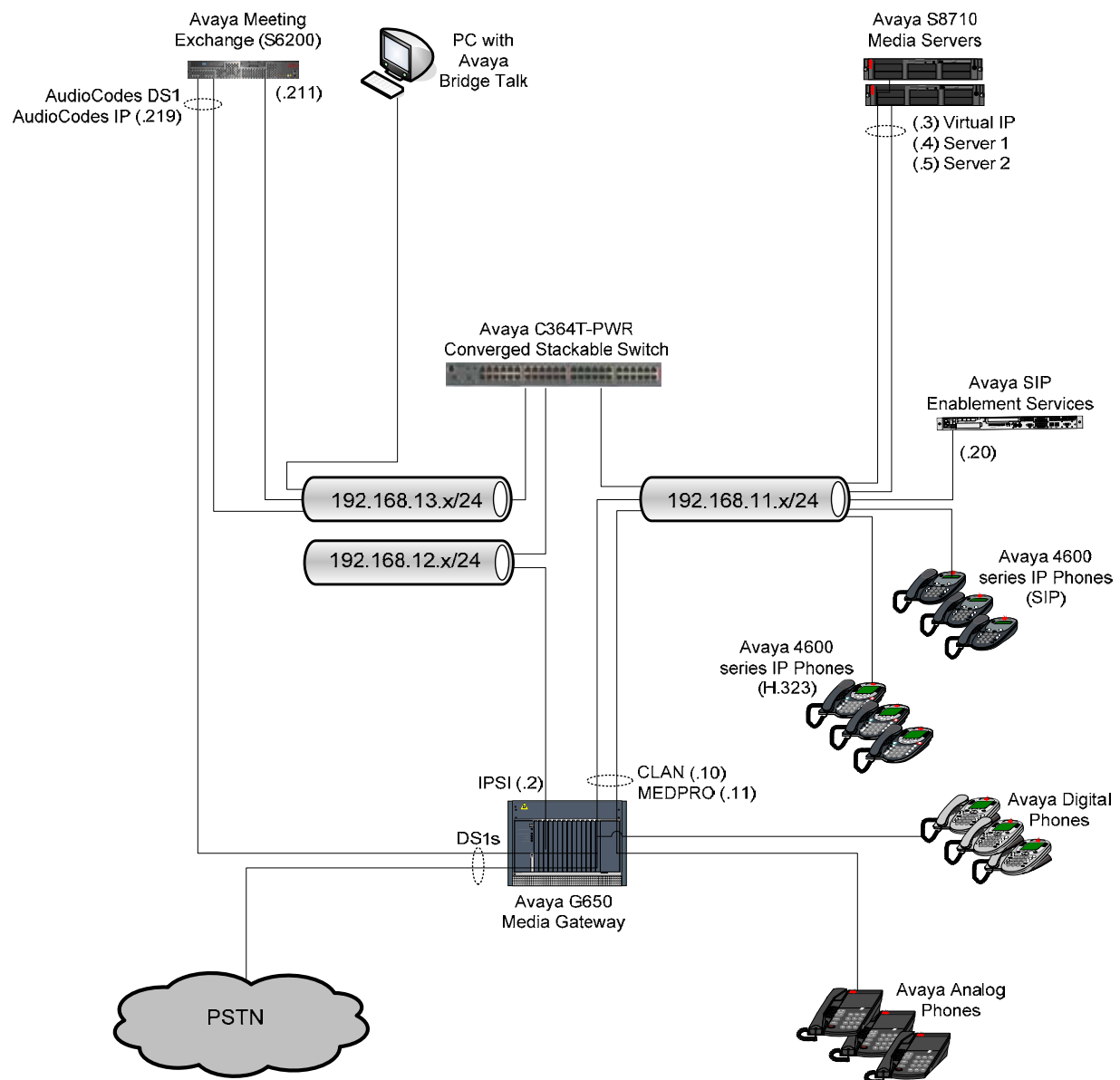
The following applications have been verified for Dial-Out conferencing:

- Auto Blast Dial with a DNIS Direct to generate new conference.
- Blast Dial to add participants to existing conference.
- Manual (one-time) dial and add participant to existing conference.

These Application Notes will focus on the administrative steps required for configuring the following Network Elements in support of the configuration depicted in **Figure 1**.

- Avaya Communication Manager.
- Avaya Meeting Exchange.
- AudioCodes TrunkPack (TP)-260/SIP PCI Media Gateway Board.

These Application Notes will also present the provisioning required to enable the aforementioned conferencing applications.



**Figure 1: Network Configuration**

## 2. Equipment and Software Validated

The following equipment and software versions were used for the configuration:

| Equipment   | Software   |
|---|--|
| Avaya S8710 Media Servers (Duplex configuration)  | R013x.01.0.628.6                                 |
| Avaya G650 Media Gateway <ul style="list-style-type: none"><li>• Avaya TN2312BP (IPSI)</li><li>• Avaya TN799DP (C-LAN)</li><li>• Avaya TN2302AP (MEDPRO)</li><li>• Avaya TN464F (DS1)</li></ul> | HW12 FW031<br>HW01 FW017<br>HW20 FW112<br>000010 |
| Avaya Meeting Exchange (S6200) <ul style="list-style-type: none"><li>• AudioCodes TrunkPack (TP)-260/SIP PCI Media Gateway Board</li></ul>  | 40002n<br>V4.40.240.454                          |
| Avaya SIP Enablement Services   | SES03.1-03.1.018.0                               |
| Avaya C364T-PWR Converged Stackable Switch  | V4.5.14  |
| Avaya Bridge Talk   | 4.1.01b  |
| Avaya 4620 IP Telephones  | 2.3 (H.323)                                      |
| Avaya 4602 IP Telephones  | 2.2 (SIP)  |
| Avaya Analog Telephones   | --   |
| Avaya Digital Telephones  | --   |

**Table 1: Hardware and Software Versions**

### 3. Avaya Communication Manager Configuration

This section describes the steps required for configuring Avaya Communication Manager to interoperate with Avaya Meeting Exchange (see **Figure 1**).

The following conditions are assumed as entry criteria to this section:

- IP network connectivity is configured.
- Login and password credentials are available.

| Step                               | Description   |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
|------------------------------------|---|----------------------------------|----------------|--------------------------|-------------------------------|--------------------------|----------------------|-------------------|----------------------------------|---------------------------------|--------------------|------------------------------|--------------------|-----------------------|-------------------------------|---------------------------|-------------------------|--------------------------------|-----------------------------|-----------------------------------|---|---------------------|--|----------------------------------|-----------------------------|-------------------------------|---|------------------------|-------------------------------------|------------------------------------|--|--------------|--|--------------------------|--|
| 3.1                                | Log In to the S8710 Virtual IP and open a SAT session.  |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
| 3.2                                | <p>Verify <b>Licensing</b> for <b>OPTIONAL FEATURES</b></p> <p>Issue the command “<b>display system-parameters customer-options</b>”.</p> <ul style="list-style-type: none"> <li>• Verify system is licensed for <b>ISDN-PRI</b>.</li> </ul>  |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
|                                    | <p>Page 4 of 10</p> <p style="text-align: center;">OPTIONAL FEATURES</p> <table> <tbody> <tr> <td>Emergency Access to Attendant? y</td><td>IP Stations? y</td></tr> <tr> <td>Enable 'dadmin' Login? y</td><td>Internet Protocol (IP) PNC? n</td></tr> <tr> <td>Enhanced Conferencing? y</td><td>ISDN Feature Plus? n</td></tr> <tr> <td>Enhanced EC500? y</td><td>ISDN Network Call Redirection? n</td></tr> <tr> <td>Enterprise Survivable Server? n</td><td>ISDN-BRI Trunks? n</td></tr> <tr> <td>Enterprise Wide Licensing? n</td><td><b>ISDN-PRI? y</b></td></tr> <tr> <td>ESS Administration? n</td><td>Local Survivable Processor? n</td></tr> <tr> <td>Extended Cvg/Fwd Admin? n</td><td>Malicious Call Trace? n</td></tr> <tr> <td>External Device Alarm Admin? n</td><td>Media Encryption Over IP? n</td></tr> <tr> <td>Five Port Networks Max Per MCC? n</td><td>Mode Code for Centralized Voice Mail? n</td></tr> <tr> <td>Flexible Billing? n</td><td></td></tr> <tr> <td>Forced Entry of Account Codes? n</td><td>Multifrequency Signaling? y</td></tr> <tr> <td>Global Call Classification? n</td><td>Multimedia Appl. Server Interface (MASI)? n</td></tr> <tr> <td>Hospitality (Basic)? y</td><td>Multimedia Call Handling (Basic)? y</td></tr> <tr> <td>Hospitality (G3V3 Enhancements)? n</td><td>Multimedia Call Handling (Enhanced)? y</td></tr> <tr> <td>IP Trunks? y</td><td></td></tr> <tr> <td>IP Attendant Consoles? n</td><td></td></tr> </tbody> </table> <p>(NOTE: You must logoff &amp; login to effect the permission changes.)</p> | Emergency Access to Attendant? y | IP Stations? y | Enable 'dadmin' Login? y | Internet Protocol (IP) PNC? n | Enhanced Conferencing? y | ISDN Feature Plus? n | Enhanced EC500? y | ISDN Network Call Redirection? n | Enterprise Survivable Server? n | ISDN-BRI Trunks? n | Enterprise Wide Licensing? n | <b>ISDN-PRI? y</b> | ESS Administration? n | Local Survivable Processor? n | Extended Cvg/Fwd Admin? n | Malicious Call Trace? n | External Device Alarm Admin? n | Media Encryption Over IP? n | Five Port Networks Max Per MCC? n | Mode Code for Centralized Voice Mail? n | Flexible Billing? n |  | Forced Entry of Account Codes? n | Multifrequency Signaling? y | Global Call Classification? n | Multimedia Appl. Server Interface (MASI)? n | Hospitality (Basic)? y | Multimedia Call Handling (Basic)? y | Hospitality (G3V3 Enhancements)? n | Multimedia Call Handling (Enhanced)? y | IP Trunks? y |  | IP Attendant Consoles? n |  |
| Emergency Access to Attendant? y   | IP Stations? y  |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
| Enable 'dadmin' Login? y           | Internet Protocol (IP) PNC? n   |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
| Enhanced Conferencing? y           | ISDN Feature Plus? n  |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
| Enhanced EC500? y                  | ISDN Network Call Redirection? n  |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
| Enterprise Survivable Server? n    | ISDN-BRI Trunks? n  |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
| Enterprise Wide Licensing? n       | <b>ISDN-PRI? y</b>  |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
| ESS Administration? n              | Local Survivable Processor? n   |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
| Extended Cvg/Fwd Admin? n          | Malicious Call Trace? n   |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
| External Device Alarm Admin? n     | Media Encryption Over IP? n   |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
| Five Port Networks Max Per MCC? n  | Mode Code for Centralized Voice Mail? n   |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
| Flexible Billing? n                |   |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
| Forced Entry of Account Codes? n   | Multifrequency Signaling? y   |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
| Global Call Classification? n      | Multimedia Appl. Server Interface (MASI)? n   |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
| Hospitality (Basic)? y             | Multimedia Call Handling (Basic)? y   |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
| Hospitality (G3V3 Enhancements)? n | Multimedia Call Handling (Enhanced)? y  |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
| IP Trunks? y                       |   |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |
| IP Attendant Consoles? n           |   |                                  |                |                          |                               |                          |                      |                   |                                  |                                 |                    |                              |                    |                       |                               |                           |                         |                                |                             |                                   |   |                     |  |                                  |                             |                               |   |                        |                                     |                                    |  |              |  |                          |  |

| Step | Description  |
|------|--|
| 3.3  | Proceed to Page 8: <ul style="list-style-type: none"> <li>• Verify system is licensed for <b>QSIG</b>.</li> </ul>  |
|      | <div>Page 8 of 10</div> <div>QSIG OPTIONAL FEATURES</div> <div> <b>Basic Call Setup? y</b><br/> <b>Basic Supplementary Services? y</b><br/>           Centralized Attendant? n<br/>           Interworking with DCS? n<br/>           Supplementary Services with Rerouting? n<br/>           Transfer into QSIG Voice Mail? n<br/>           Value-Added (VALU)? n         </div> |
|      |  |

| Step | Description   |
|------|---|
| 3.4  | <p>Configure a <b>DS1 CIRCUIT PACK</b>.</p> <p>Place a DS1 Board in cabinet <b>Location: 1A09</b>.<br/>Issue the command “<b>add ds1 1a09</b>”, and administer settings as per below.</p> <div> <div>Page 1 of 2</div> <div> DS1 CIRCUIT PACK <div> <div>Location: 01A09</div> <div>Bit Rate: 1.544</div> <div>Line Compensation: 1</div> <div>Signaling Mode: isdn-pri</div> <div>Connect: pbx</div> <div>TN-C7 Long Timers? n</div> <div>Interworking Message: PROGress</div> <div>Interface Companding: mulaw</div> <div>Idle Code: 11111111</div> </div> <div> <div>Name: DS1 to S6200</div> <div>Line Coding: b8zs</div> <div>Framing Mode: esf</div> <div>Interface: peer-master</div> <div>Peer Protocol: Q-SIG</div> <div>Side: a</div> <div>CRC? n</div> </div> <div>DCP/Analog Bearer Capability: 3.1kHz</div> <div>T303 Timer(sec): 4</div> <div>Slip Detection? n</div> <div>Near-end CSU Type: other</div> </div> </div> |
| 3.5  | <p>Configure an ISDN-PRI <b>SIGNALING GROUP</b>.</p> <p>Issue the command “<b>add signaling-group &lt;number&gt;</b>” (for these Application Notes, <b>number == 3</b>), and administer settings as per below.</p> <div> <div>Page 1 of 1</div> <div> SIGNALING GROUP <div> <div>Group Number: 3</div> <div>Group Type: isdn-pri</div> <div>Associated Signaling? y</div> <div>Primary D-Channel: 01A0924</div> <div>Trunk Group for Channel Selection:</div> <div>Supplementary Service Protocol: b</div> </div> <div> <div>Max number of NCA TSC: 0</div> <div>Max number of CA TSC: 0</div> <div>Trunk Group for NCA TSC:</div> </div> </div> </div>   |





| Step        | Description  |      |      |       |      |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
|-------------|--|------|------|-------|------|-------|-----|-----|------------|-------|---|--|--|---|--|------------|-------|---|--|--|---|--|------------|-------|---|--|--|---|--|------------|-------|---|--|--|---|--|------------|-------|---|--|--|---|--|------------|-------|---|--|--|---|--|------------|-------|---|--|--|---|--|------------|-------|---|--|--|---|--|------------|-------|---|--|--|---|--|-------------|-------|---|--|--|---|--|-------------|-------|---|--|--|---|--|-------------|-------|---|--|--|---|--|-------------|-------|---|--|--|---|--|-------------|-------|---|--|--|---|--|-------------|-------|---|--|--|---|--|-------------|-------|---|--|--|---|--|-------------|-------|---|--|--|---|--|-------------|-------|---|--|--|---|--|-------------|-------|---|--|--|---|--|-------------|-------|---|--|--|---|--|-------------|-------|---|--|--|---|--|-------------|-------|---|--|--|---|--|-------------|-------|---|--|--|---|
| 3.8         | Proceed to Page 5 and administer the members for the <b>TRUNK GROUP</b> as per below.  |      |      |       |      |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
|             | Page 5 of 21   |      |      |       |      |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
|             | TRUNK GROUP<br>Administered Members (min/max): 1/23<br>GROUP MEMBER ASSIGNMENTS<br>Total Administered Members: 23  |      |      |       |      |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
|             | <table><thead><tr><th>Port</th><th>Code</th><th>Sfx</th><th>Name</th><th>Night</th><th>Sig</th><th>Grp</th></tr></thead><tbody><tr><td>1: 01A0901</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>2: 01A0902</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>3: 01A0903</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>4: 01A0904</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>5: 01A0905</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>6: 01A0906</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>7: 01A0907</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>8: 01A0908</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>9: 01A0909</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>10: 01A0910</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>11: 01A0911</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>12: 01A0912</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>13: 01A0913</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>14: 01A0914</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>15: 01A0915</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>16: 01A0916</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>17: 01A0917</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>18: 01A0918</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>19: 01A0919</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>20: 01A0920</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>21: 01A0921</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>22: 01A0922</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr><tr><td>23: 01A0923</td><td>TN464</td><td>F</td><td></td><td></td><td>3</td><td></td></tr></tbody></table> | Port | Code | Sfx   | Name | Night | Sig | Grp | 1: 01A0901 | TN464 | F |  |  | 3 |  | 2: 01A0902 | TN464 | F |  |  | 3 |  | 3: 01A0903 | TN464 | F |  |  | 3 |  | 4: 01A0904 | TN464 | F |  |  | 3 |  | 5: 01A0905 | TN464 | F |  |  | 3 |  | 6: 01A0906 | TN464 | F |  |  | 3 |  | 7: 01A0907 | TN464 | F |  |  | 3 |  | 8: 01A0908 | TN464 | F |  |  | 3 |  | 9: 01A0909 | TN464 | F |  |  | 3 |  | 10: 01A0910 | TN464 | F |  |  | 3 |  | 11: 01A0911 | TN464 | F |  |  | 3 |  | 12: 01A0912 | TN464 | F |  |  | 3 |  | 13: 01A0913 | TN464 | F |  |  | 3 |  | 14: 01A0914 | TN464 | F |  |  | 3 |  | 15: 01A0915 | TN464 | F |  |  | 3 |  | 16: 01A0916 | TN464 | F |  |  | 3 |  | 17: 01A0917 | TN464 | F |  |  | 3 |  | 18: 01A0918 | TN464 | F |  |  | 3 |  | 19: 01A0919 | TN464 | F |  |  | 3 |  | 20: 01A0920 | TN464 | F |  |  | 3 |  | 21: 01A0921 | TN464 | F |  |  | 3 |  | 22: 01A0922 | TN464 | F |  |  | 3 |  | 23: 01A0923 | TN464 | F |  |  | 3 |
| Port        | Code   | Sfx  | Name | Night | Sig  | Grp   |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 1: 01A0901  | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 2: 01A0902  | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 3: 01A0903  | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 4: 01A0904  | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 5: 01A0905  | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 6: 01A0906  | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 7: 01A0907  | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 8: 01A0908  | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 9: 01A0909  | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 10: 01A0910 | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 11: 01A0911 | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 12: 01A0912 | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 13: 01A0913 | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 14: 01A0914 | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 15: 01A0915 | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 16: 01A0916 | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 17: 01A0917 | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 18: 01A0918 | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 19: 01A0919 | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 20: 01A0920 | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 21: 01A0921 | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 22: 01A0922 | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |
| 23: 01A0923 | TN464  | F    |      |       | 3    |       |     |     |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |            |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |  |             |       |   |  |  |   |

| Step                     | Description  |                          |               |              |           |               |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
|--------------------------|--|--------------------------|---------------|--------------|-----------|---------------|---------------|-----------|---------------|---|--|--|--|--|--|--|---------------|---|---------------|-----------|---------------|---------------|---------------|--------------|-----------|---------------|--------------|-----------|---------------|--------------|-----------|--|---|---|------|---|---|---|-----|--|---|--|------------|----------|----------|----------|------------|--|----------|--|------------|----------|----------|----------|------------|--|----------|--|------------|----------|----------|----------|------------|---|----------|--|--|--|--|--|--|--|---|---|-----|--|--|--|--|--|--|--|----------|----------|------------|--|--|--|--|--|--|--|---|---|-----|--|--|--|--|--|--|--|---|---|-----|--|--|--|--|--|--|--|---|---|-----|--|--|--|--|--|--|--|---|---|-----|--|--|--|--|--|--|--|---|---|-----|--|--|--|--|--|--|--|---|---|-----|--|--|--|--|--|--|--|---|---|-----|--|--|--|--|--|--|--|
| 3.9                      | <p>Configure the <b>DIAL PLAN ANALYSIS TABLE</b> to send any digit string with a ‘leading’ <b>5</b> of <b>3</b> digits in <b>Total Length</b> to <b>aar</b>.</p> <p>Issue the command “<b>change dialplan analysis</b>”, and administer settings as per below.</p> <div><div>Page 1 of 12</div><table><tr><th colspan="10">DIAL PLAN ANALYSIS TABLE</th></tr><tr><td colspan="9"></td><td>Percent Full:</td><td>1</td></tr><tr><th>Dialed String</th><th>Total Length</th><th>Call Type</th><th>Dialed String</th><th>Total Length</th><th>Call Type</th><th>Dialed String</th><th>Total Length</th><th>Call Type</th><th></th></tr><tr><td>0</td><td>1</td><td>attd</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>3</td><td>dac</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td>5</td><td>ext</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td>5</td><td>ext</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td>3</td><td>aar</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td><b>5</b></td><td><b>3</b></td><td><b>aar</b></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td>3</td><td>ext</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td>4</td><td>ext</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td>5</td><td>ext</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>1</td><td>fac</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td>1</td><td>fac</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>*</td><td>3</td><td>fac</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>#</td><td>3</td><td>fac</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table></div> | DIAL PLAN ANALYSIS TABLE |               |              |           |               |               |           |               |   |  |  |  |  |  |  |               |   |               |           | Percent Full: | 1             | Dialed String | Total Length | Call Type | Dialed String | Total Length | Call Type | Dialed String | Total Length | Call Type |  | 0 | 1 | attd |   |   |   |     |  |   |  | 1          | 3        | dac      |          |            |  |          |  |            |          | 2        | 5        | ext        |  |          |  |            |          |          |          | 3          | 5 | ext      |  |  |  |  |  |  |  | 4 | 3 | aar |  |  |  |  |  |  |  | <b>5</b> | <b>3</b> | <b>aar</b> |  |  |  |  |  |  |  | 6 | 3 | ext |  |  |  |  |  |  |  | 7 | 4 | ext |  |  |  |  |  |  |  | 7 | 5 | ext |  |  |  |  |  |  |  | 8 | 1 | fac |  |  |  |  |  |  |  | 9 | 1 | fac |  |  |  |  |  |  |  | * | 3 | fac |  |  |  |  |  |  |  | # | 3 | fac |  |  |  |  |  |  |  |
| DIAL PLAN ANALYSIS TABLE |  |                          |               |              |           |               |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
|                          |  |                          |               |              |           |               |               |           | Percent Full: | 1 |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| Dialed String            | Total Length   | Call Type                | Dialed String | Total Length | Call Type | Dialed String | Total Length  | Call Type |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| 0                        | 1  | attd                     |               |              |           |               |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| 1                        | 3  | dac                      |               |              |           |               |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| 2                        | 5  | ext                      |               |              |           |               |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| 3                        | 5  | ext                      |               |              |           |               |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| 4                        | 3  | aar                      |               |              |           |               |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| <b>5</b>                 | <b>3</b>   | <b>aar</b>               |               |              |           |               |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| 6                        | 3  | ext                      |               |              |           |               |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| 7                        | 4  | ext                      |               |              |           |               |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| 7                        | 5  | ext                      |               |              |           |               |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| 8                        | 1  | fac                      |               |              |           |               |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| 9                        | 1  | fac                      |               |              |           |               |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| *                        | 3  | fac                      |               |              |           |               |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| #                        | 3  | fac                      |               |              |           |               |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| 3.10                     | <p>Configure the <b>AAR ANALYSIS TABLE</b> to send the following <b>Dialed Strings</b> to <b>Route Pattern 3</b>.</p> <p>Issue the command “<b>change aar analysis 5</b>”, and administer settings as per below.</p> <p>Note:</p> <ul style="list-style-type: none"><li>Dialed String <b>503</b> will be used by Avaya Meeting Exchange for a <b>scan</b> function (see <b>Step 4.7</b>).</li><li>Dialed Strings <b>555</b> and <b>556</b> will be used by Avaya Meeting Exchange for a <b>direct</b> function (see <b>Step 4.8</b>).</li></ul> <div><div>Page 1 of 2</div><table><tr><th colspan="8">AAR DIGIT ANALYSIS TABLE</th></tr><tr><td colspan="7"></td><td>Percent Full:</td><td>1</td></tr><tr><th>Dialed String</th><th>Total Min</th><th>Total Max</th><th>Route Pattern</th><th>Call Type</th><th>Node Num</th><th>ANI Req'd</th><th></th></tr><tr><td>501</td><td>3</td><td>3</td><td>1</td><td>aar</td><td></td><td>n</td><td></td></tr><tr><td>502</td><td>3</td><td>3</td><td>2</td><td>aar</td><td></td><td>n</td><td></td></tr><tr><td><b>503</b></td><td><b>3</b></td><td><b>3</b></td><td><b>3</b></td><td><b>aar</b></td><td></td><td><b>n</b></td><td></td></tr><tr><td><b>555</b></td><td><b>3</b></td><td><b>3</b></td><td><b>3</b></td><td><b>aar</b></td><td></td><td><b>n</b></td><td></td></tr><tr><td><b>556</b></td><td><b>3</b></td><td><b>3</b></td><td><b>3</b></td><td><b>aar</b></td><td></td><td><b>n</b></td><td></td></tr></table></div>   | AAR DIGIT ANALYSIS TABLE |               |              |           |               |               |           |               |   |  |  |  |  |  |  | Percent Full: | 1 | Dialed String | Total Min | Total Max     | Route Pattern | Call Type     | Node Num     | ANI Req'd |               | 501          | 3         | 3             | 1            | aar       |  | n |   | 502  | 3 | 3 | 2 | aar |  | n |  | <b>503</b> | <b>3</b> | <b>3</b> | <b>3</b> | <b>aar</b> |  | <b>n</b> |  | <b>555</b> | <b>3</b> | <b>3</b> | <b>3</b> | <b>aar</b> |  | <b>n</b> |  | <b>556</b> | <b>3</b> | <b>3</b> | <b>3</b> | <b>aar</b> |   | <b>n</b> |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| AAR DIGIT ANALYSIS TABLE |  |                          |               |              |           |               |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
|                          |  |                          |               |              |           |               | Percent Full: | 1         |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| Dialed String            | Total Min  | Total Max                | Route Pattern | Call Type    | Node Num  | ANI Req'd     |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| 501                      | 3  | 3                        | 1             | aar          |           | n             |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| 502                      | 3  | 3                        | 2             | aar          |           | n             |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| <b>503</b>               | <b>3</b>   | <b>3</b>                 | <b>3</b>      | <b>aar</b>   |           | <b>n</b>      |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| <b>555</b>               | <b>3</b>   | <b>3</b>                 | <b>3</b>      | <b>aar</b>   |           | <b>n</b>      |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |
| <b>556</b>               | <b>3</b>   | <b>3</b>                 | <b>3</b>      | <b>aar</b>   |           | <b>n</b>      |               |           |               |   |  |  |  |  |  |  |               |   |               |           |               |               |               |              |           |               |              |           |               |              |           |  |   |   |      |   |   |   |     |  |   |  |            |          |          |          |            |  |          |  |            |          |          |          |            |  |          |  |            |          |          |          |            |   |          |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |          |          |            |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |   |   |     |  |  |  |  |  |  |  |

| Step | Description   |
|------|---|
| 3.11 | <p>Configure a <b>ROUTE PATTERN</b> to 'route' to <b>Grp No 3</b> (Trunk Group 3, see <b>Step 3.6</b>).</p> <p>Issue the command “<b>change route-pattern 3</b>”, and administer settings as per below.</p>   |
|      | <p>Page 1 of 3</p> <pre> Pattern Number: 3    Pattern Name: S6200 PRI                 SCCAN? n    Secure SIP? n    Grp FRL NPA Pfx Hop Toll No.  Inserted      DCS/  IXC   No          Mrk Lmt List Del  Digits      QSIG                                 Dgts      Intw 1: 3      0                0                n   user 2:                n   user 3:                n   user 4:                n   user 5:                n   user 6:                n   user        BCC VALUE  TSC CA-TSC      ITC BCIE Service/Feature PARM  No. Numbering LAR       0 1 2 3 4 W      Request      Dgts Format                                 Subaddress 1: y y y y y n  n                rest                none 2: y y y y y n  n                rest                none 3: y y y y y n  n                rest                none 4: y y y y y n  n                rest                none 5: y y y y y n  n                rest                none 6: y y y y y n  n                rest                none </pre> |

## 4. Avaya Meeting Exchange Configuration

This section describes the steps required for configuring Avaya Meeting Exchange to interoperate with Avaya Communication Manager (see **Figure 1**).

The following conditions are assumed as entry criteria to this section:

- IP network connectivity is configured.
- Login and password credentials are available.
- Avaya Bridge Talk is installed.

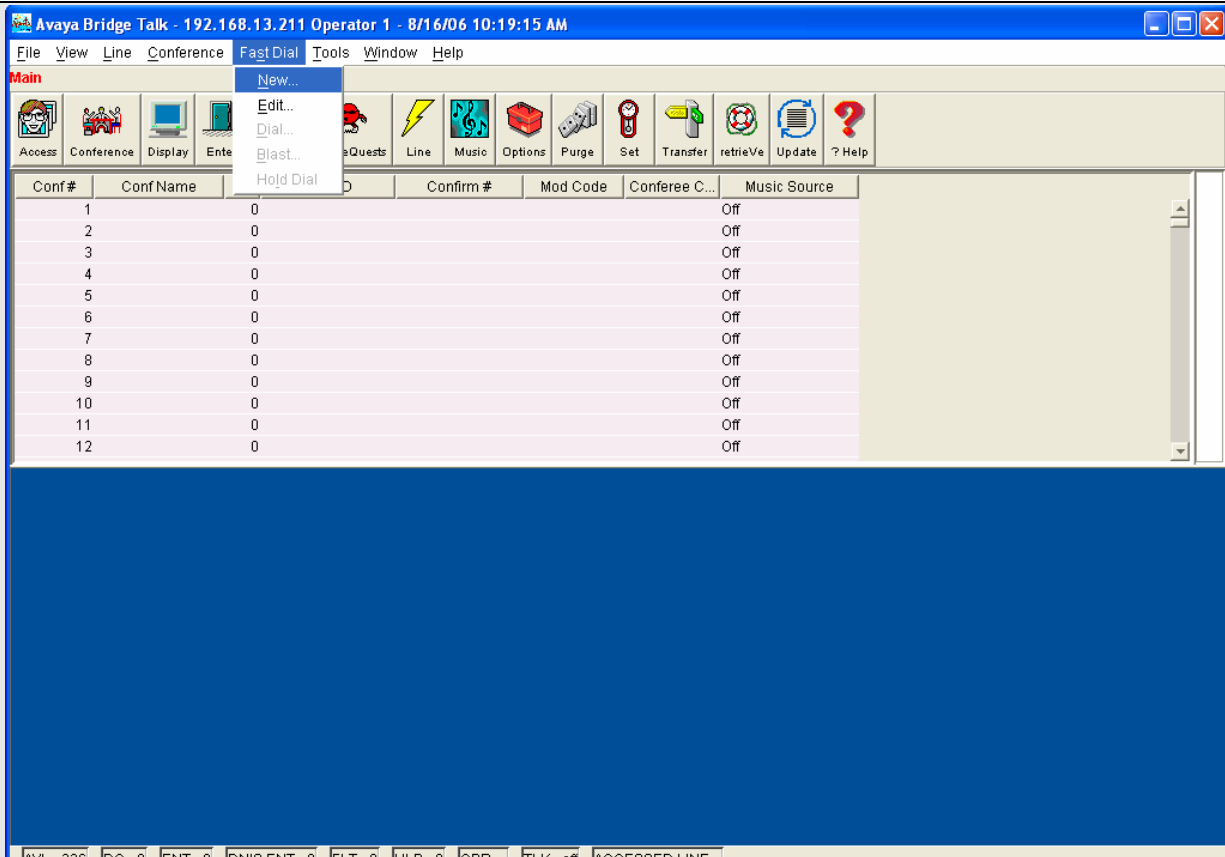
| Step | Description  |
|------|--|
| 4.1  | <b>Log in</b> to the Avaya Meeting Exchange Server.  |
| 4.2  | Configure settings that relate to the ‘presence’ of Avaya Meeting Exchange within the SIP network by editing the <b>system.cfg</b> file as follows: <ul style="list-style-type: none"><li>• cd to <b>/usr/ipcb/config</b></li><li>• Edit the <b>system.cfg</b> file with a text editor, e.g., vi.</li><li>• Add a line to identify the IP Address of Avaya Meeting Exchange (as defined in the <b>/etc/hosts</b> file),<br/>e.g., <b>IPAddress=192.168.13.211</b></li><li>• Add a line to identify the SIP request URI,<br/>e.g., <b>MyListener=sip:conf-bridge@192.168.13.211</b><br/>Note: The name <b>conf-bridge</b> is a label.</li></ul>   |
| 4.3  | To ‘map’ incoming calls to Avaya Meeting Exchange with a corresponding DDI value, edit the <b>UriToTelnum.tab</b> file as follows: <ul style="list-style-type: none"><li>• cd to <b>/usr/ipcb/config</b></li><li>• Edit the <b>UriToTelnum.tab</b> file with a text editor, e.g., vi.</li><li>• Add a line to allow Dial-In from Avaya Communication Manager by matching and converting incoming SIP URIs in the SIP Invite message to DDI values;<br/>e.g., <b>"*&lt;sip:*@*" \$2</b><br/>where <b>"*&lt;sip:*@"</b> will match the incoming SIP URI and <b>\$2</b> will utilize the variable contained in the second * as the DDI value for the call.</li><li>• To allow an undefined caller to enter a help queue for operator assistance, administer for the condition of an undefined SIP URI header by adding a wildcard entry as the last line in the file,<br/>e.g., <b>* \$0</b><br/>Note: Entries in this file are read sequentially, therefore, it follows that the line <b>* \$0</b> must be the last line in the file. Otherwise, all calls to Avaya Meeting Exchange would match the wildcard and thus go to the help queue.</li></ul> |

| Step | Description  |
|------|--|
| 4.4  | <p>To configure 'routing' of outbound call from Avaya Meeting Exchange, edit the <b>telnumToUri.tab</b> file as follows:</p> <ul style="list-style-type: none"> <li>• cd to <b>/usr/ipcb/config</b></li> <li>• Edit the <b>telnumToUri.tab</b> file with a text editor, e.g., vi.</li> <li>• Add a line to the file to allow for Dial-Out from Avaya Meeting Exchange, e.g., * <b>sip:\$0@192.168.13.219</b><br/> where * will allow any dialed digits to be sent to the default gateway: <b>192.168.13.219</b> (where 192.168.13.219 is the IP Address of the AudioCodes Media Gateway).<br/> Therefore, if 123 were dialed, the SIP URI would be defined as:<br/> sip:123@192.168.13.219.</li> </ul> |

The following steps will show how to provision conferences on Avaya Meeting Exchange.

| Step | Description   |
|------|---|
| 4.5  | <p>To 'map' <b>DDI</b> values (obtained in <b>Step 4.3</b>) to <b>DNIS</b> entries run the <b>cbutil</b> utility as follows:</p> <ul style="list-style-type: none"> <li>• At the command prompt enter <b>tcsh</b> to set the environment on Avaya Meeting Exchange.</li> </ul>  |
| 4.6  | <ul style="list-style-type: none"> <li>• At the command prompt enter <b>cbutil list</b> to verify <b>DNIS</b> entries provisioned on Avaya Meeting exchange.</li> </ul> <p>Note:</p> <ul style="list-style-type: none"> <li>• An optional 'wildcard' <b>DNIS</b> entry (???) is present to catch any unmatched <b>DDI</b> values.</li> </ul> <pre> S6200&gt;cbutil list cbutil Copyright 2004 Avaya, Inc. All rights reserved.  DNIS          Msg PS  Function Line Name          Company Name ----- ???           208 1   ENTER </pre> |
| 4.7  | <ul style="list-style-type: none"> <li>• At the command prompt enter <b>cbutil add</b> to add a <b>DNIS</b> entry for a <b>scan</b> function for <b>DNIS 503</b>.</li> </ul> <pre> S6200&gt;cbutil add 503 1 1 scan cbutil Copyright 2004 Avaya, Inc. All rights reserved. </pre>   |

| Step       | Description  |          |               |           |              |           |              |       |     |     |       |       |       |            |          |          |             |  |  |            |          |          |               |  |  |            |          |          |               |  |  |     |     |   |       |  |
|------------|--|----------|---------------|-----------|--------------|-----------|--------------|-------|-----|-----|-------|-------|-------|------------|----------|----------|-------------|--|--|------------|----------|----------|---------------|--|--|------------|----------|----------|---------------|--|--|-----|-----|---|-------|--|
| 4.8        | <ul style="list-style-type: none"><li>At the command prompt enter <b>cbutil add</b> to add a DNIS entry for a <b>direct</b> function for DNIS <b>555</b>.</li></ul>  |          |               |           |              |           |              |       |     |     |       |       |       |            |          |          |             |  |  |            |          |          |               |  |  |            |          |          |               |  |  |     |     |   |       |  |
|            | S6200> <b>cbutil add 555 0 1 direct</b><br>cbutil<br>Copyright 2004 Avaya, Inc. All rights reserved.   |          |               |           |              |           |              |       |     |     |       |       |       |            |          |          |             |  |  |            |          |          |               |  |  |            |          |          |               |  |  |     |     |   |       |  |
|            | <ul style="list-style-type: none"><li>Repeat to add <b>direct</b> function for <b>556</b>.</li></ul>   |          |               |           |              |           |              |       |     |     |       |       |       |            |          |          |             |  |  |            |          |          |               |  |  |            |          |          |               |  |  |     |     |   |       |  |
| 4.9        | <ul style="list-style-type: none"><li>At the command prompt enter <b>cbutil list</b> to verify DNIS entries provisioned on Avaya Meeting exchange.</li></ul>   |          |               |           |              |           |              |       |     |     |       |       |       |            |          |          |             |  |  |            |          |          |               |  |  |            |          |          |               |  |  |     |     |   |       |  |
|            | S6200> <b>cbutil list</b><br>cbutil<br>Copyright 2004 Avaya, Inc. All rights reserved.   |          |               |           |              |           |              |       |     |     |       |       |       |            |          |          |             |  |  |            |          |          |               |  |  |            |          |          |               |  |  |     |     |   |       |  |
|            | <table><thead><tr><th>DNIS</th><th>Msg</th><th>PS</th><th>Function</th><th>Line Name</th><th>Company Name</th></tr><tr><th>-----</th><th>---</th><th>---</th><th>-----</th><th>-----</th><th>-----</th></tr></thead><tbody><tr><td><b>503</b></td><td><b>1</b></td><td><b>1</b></td><td><b>SCAN</b></td><td></td><td></td></tr><tr><td><b>555</b></td><td><b>0</b></td><td><b>1</b></td><td><b>DIRECT</b></td><td></td><td></td></tr><tr><td><b>556</b></td><td><b>0</b></td><td><b>1</b></td><td><b>DIRECT</b></td><td></td><td></td></tr><tr><td>???</td><td>208</td><td>1</td><td>ENTER</td><td></td><td></td></tr></tbody></table> | DNIS     | Msg           | PS        | Function     | Line Name | Company Name | ----- | --- | --- | ----- | ----- | ----- | <b>503</b> | <b>1</b> | <b>1</b> | <b>SCAN</b> |  |  | <b>555</b> | <b>0</b> | <b>1</b> | <b>DIRECT</b> |  |  | <b>556</b> | <b>0</b> | <b>1</b> | <b>DIRECT</b> |  |  | ??? | 208 | 1 | ENTER |  |
| DNIS       | Msg  | PS       | Function      | Line Name | Company Name |           |              |       |     |     |       |       |       |            |          |          |             |  |  |            |          |          |               |  |  |            |          |          |               |  |  |     |     |   |       |  |
| -----      | ---  | ---      | -----         | -----     | -----        |           |              |       |     |     |       |       |       |            |          |          |             |  |  |            |          |          |               |  |  |            |          |          |               |  |  |     |     |   |       |  |
| <b>503</b> | <b>1</b>   | <b>1</b> | <b>SCAN</b>   |           |              |           |              |       |     |     |       |       |       |            |          |          |             |  |  |            |          |          |               |  |  |            |          |          |               |  |  |     |     |   |       |  |
| <b>555</b> | <b>0</b>   | <b>1</b> | <b>DIRECT</b> |           |              |           |              |       |     |     |       |       |       |            |          |          |             |  |  |            |          |          |               |  |  |            |          |          |               |  |  |     |     |   |       |  |
| <b>556</b> | <b>0</b>   | <b>1</b> | <b>DIRECT</b> |           |              |           |              |       |     |     |       |       |       |            |          |          |             |  |  |            |          |          |               |  |  |            |          |          |               |  |  |     |     |   |       |  |
| ???        | 208  | 1        | ENTER         |           |              |           |              |       |     |     |       |       |       |            |          |          |             |  |  |            |          |          |               |  |  |            |          |          |               |  |  |     |     |   |       |  |
| 4.10       | <b>Reboot</b> Avaya Meeting Exchange to make change take effect.   |          |               |           |              |           |              |       |     |     |       |       |       |            |          |          |             |  |  |            |          |          |               |  |  |            |          |          |               |  |  |     |     |   |       |  |

| Step | Description   |
|------|---|
| 4.11 | <p>To provision conferences on Avaya Meeting Exchange:</p> <ul style="list-style-type: none"> <li>Open the Avaya Bridge Talk Application and <b>Log in</b>.</li> </ul> <p>Note:</p> <ul style="list-style-type: none"> <li>The following steps will detail how to provision an Auto Blast dial conference using DNIS entry <b>556</b> (see <b>Step 4.9</b>).</li> </ul> |
| 4.12 | <p>From the Avaya Bridge Talk <b>Menu Bar</b>:</p> <ul style="list-style-type: none"> <li>Click <b>Fast Dial, New</b>.</li> </ul>    |

| Step | Description  |
|------|--|
| 4.13 | <p>From the <b>New Dial List</b> window:</p> <ul style="list-style-type: none"> <li>Check the <b>Directly to Conf</b> box to allow conferees to enter a conference without a passcode.</li> <li>Add conferees to 'Blast Dial' by clicking the <b>Add</b> button for each entry. <ul style="list-style-type: none"> <li>Give moderator privileges to a conferee by checking the Moderator box.</li> </ul> </li> <li>When finished, click the <b>Save</b> button on the bottom of the screen.</li> </ul> |

**New Dial List**

Name:  Optional Access Code:  ☒ Directly to Conf

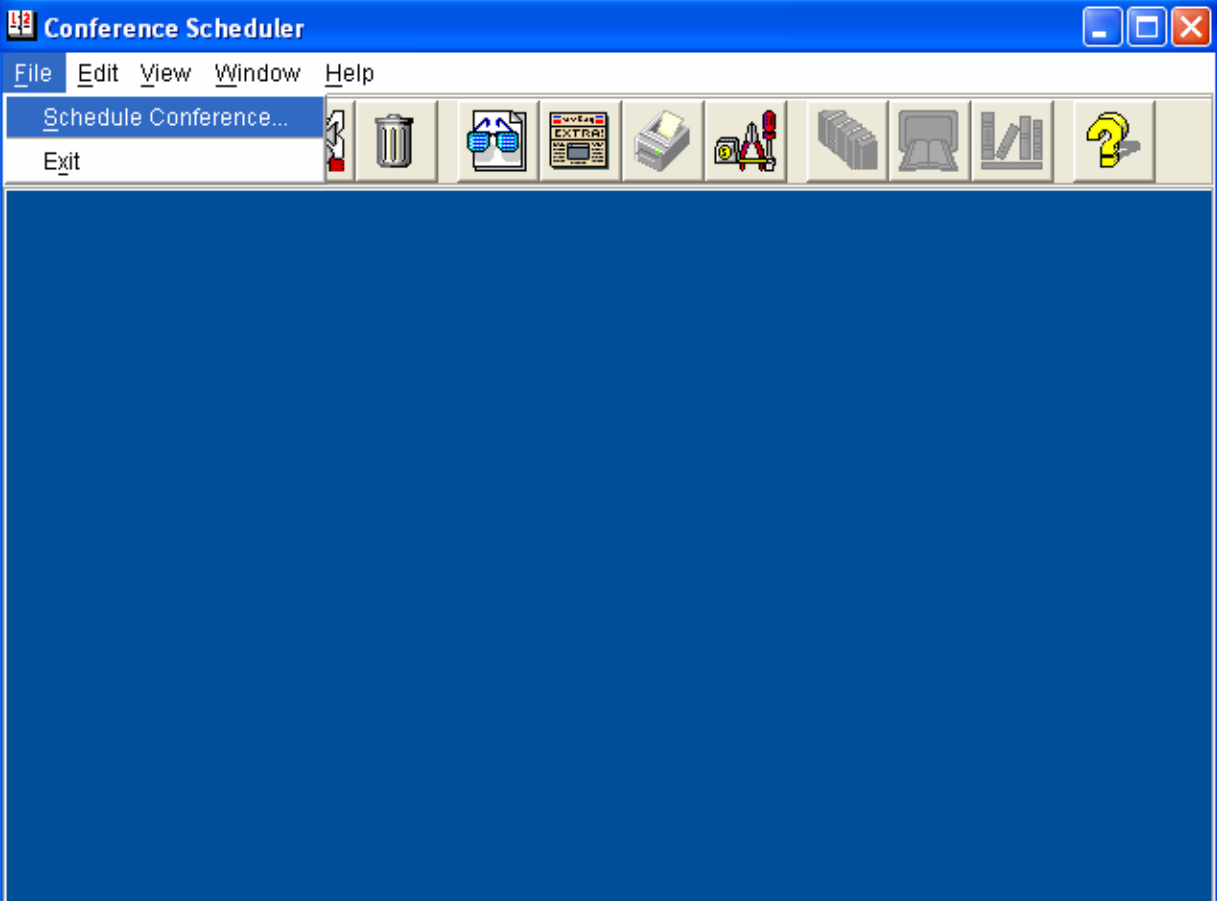
Conferee List

☒ Display As Entered

| Name       | Company | Moderator                | Q&A Priority | Telephone |
|------------|---------|--------------------------|--------------|-----------|
| SIP_01     |         | <input type="checkbox"/> |              | 31001     |
| H323_01    |         | <input type="checkbox"/> |              | 33001     |
| Digital_01 |         | <input type="checkbox"/> |              | 32001     |
| Digital_02 |         | <input type="checkbox"/> |              | 32002     |
| Digital_03 |         | <input type="checkbox"/> |              | 32003     |



| Step | Description   |
|------|---|
| 4.14 | <p>From the Avaya Bridge Talk Menu Bar:</p> <ul style="list-style-type: none"> <li>Click View, Conference Scheduler.</li> </ul> |
|      |   |

| Step | Description   |
|------|---|
| 4.15 | <p>From the <b>Conference Scheduler</b> window:</p> <ul style="list-style-type: none"> <li>Click <b>File, Schedule Conference</b>.</li> </ul>  |

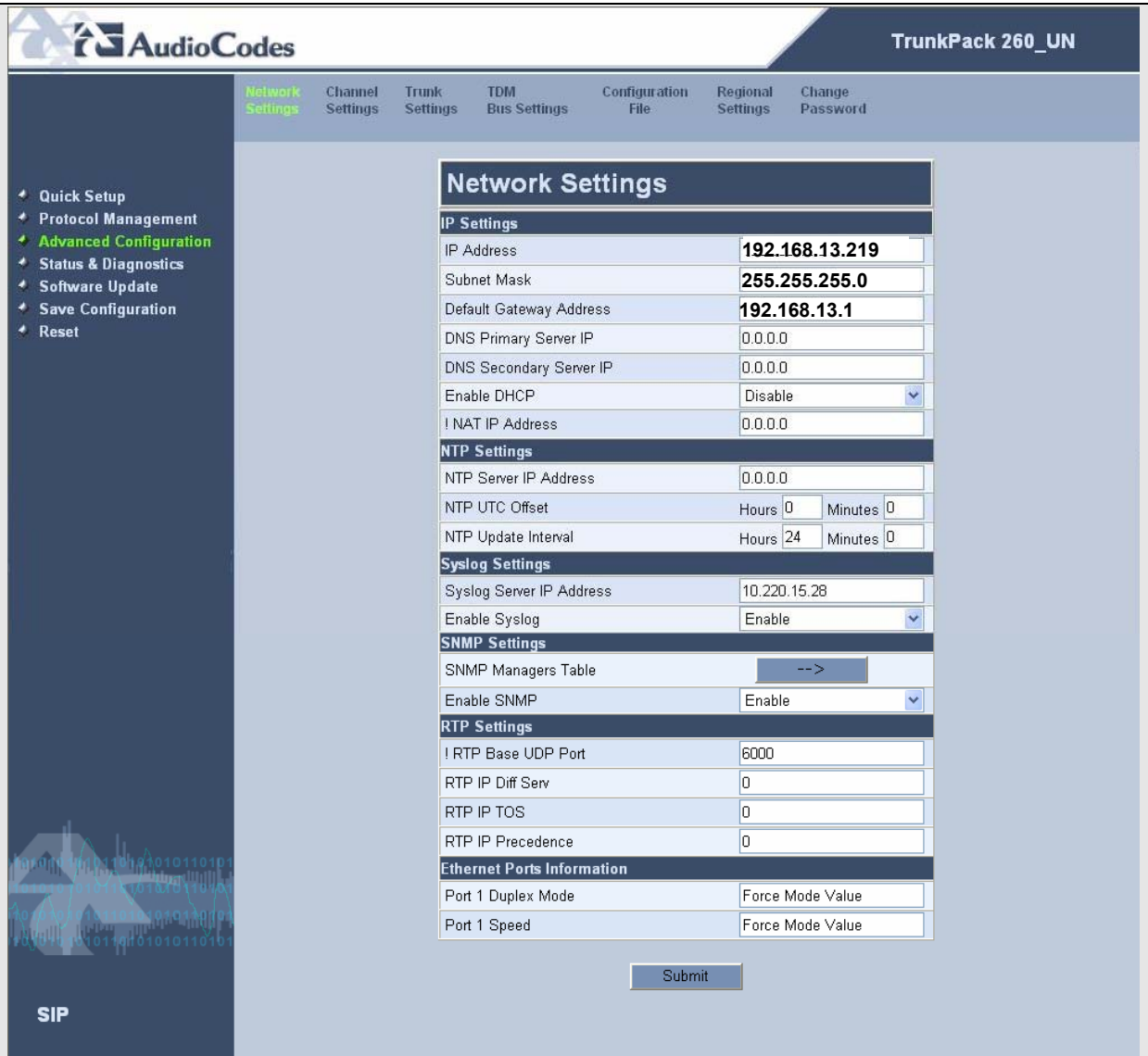
| Step | Description  |
|------|--|
| 4.16 | <p>From the <b>Schedule Conference</b> window:</p> <ul style="list-style-type: none"> <li>Administer settings for a conference with a DNIS <b>direct</b> function provisioned and Auto Blast feature enabled as per below.</li> <li>When finished, click the <b>OK</b> button on the bottom of the screen.</li> </ul> <p>Note:</p> <ul style="list-style-type: none"> <li>If Auto Blast button is not present, contact Avaya Services.</li> <li>Dial List is form <b>Step 4.13</b>.</li> <li>To allow moderator access without a passcode, the <b>Moderator Code (556)</b> must have a DNIS entry for <b>556</b> with <b>direct</b> function provisioned (see <b>Step 4.9</b>).</li> </ul> |
|      |  |


## 5. Configure the AudioCodes Media Gateway


This section describes the steps required for configuring the AudioCodes Media Gateway to interoperate with:

- Avaya Meeting Exchange via SIP (see **Figure 1**).
- Avaya Communication Manager via ISDN-PRI (see **Figure 1**).

| Step | Description  |
|------|--|
| 5.1  | <p>Administer settings for Avaya Meeting Exchange as follows:</p> <ul style="list-style-type: none"><li>• Open a web browser and enter the following URL:<br/><b>http://&lt;default IP Address&gt;</b></li><li>• <b>Log in</b> to the AudioCodes Media Gateway.</li></ul> <p>Note:</p> <ul style="list-style-type: none"><li>• To obtain default IP Address, login and password information, see <b>Additional References</b>: <i>TP-260 UN SIP User's Manual</i>.</li></ul> |

| Step | Description  |
|------|--|
| 5.2  | <p>Configure <b>Network Settings</b> as follows:</p> <ul style="list-style-type: none"> <li>Click <b>Advanced Configuration</b>.</li> <li>Click <b>Network Settings</b>.</li> <li>Administer settings as per below.</li> <li>When finished, click the <b>Submit</b> button on the bottom of the screen.</li> </ul> <p>Note:</p> <ul style="list-style-type: none"> <li>The <b>Network Settings</b> configured for the Audio Codes Media Gateway must have layer 3 connectivity with Avaya Meeting Exchange.</li> </ul>   |
|      |  <p>The screenshot displays the AudioCodes TrunkPack 260_UN web interface. The top navigation bar includes links for Network Settings, Channel Settings, Trunk Settings, TDM Bus Settings, Configuration File, Regional Settings, and Change Password. The left sidebar lists options like Quick Setup, Protocol Management, Advanced Configuration (highlighted), Status &amp; Diagnostics, Software Update, Save Configuration, and Reset. The main content area is titled 'Network Settings' and contains several sections: IP Settings (with fields for IP Address, Subnet Mask, Default Gateway Address, DNS Primary/Secondary Server IP, Enable DHCP, and NAT IP Address), NTP Settings (with fields for NTP Server IP Address, NTP UTC Offset, and NTP Update Interval), Syslog Settings (with fields for Syslog Server IP Address and Enable Syslog), SNMP Settings (with fields for SNMP Managers Table and Enable SNMP), RTP Settings (with fields for RTP Base UDP Port, RTP IP Diff Serv, RTP IP TOS, and RTP IP Precedence), and Ethernet Ports Information (with fields for Port 1 Duplex Mode and Port 1 Speed). A 'Submit' button is located at the bottom right of the configuration area.</p> |

| Step | Description  |
|------|--|
| 5.3  | <p>Configure <b>Proxy &amp; Registration</b> parameters as follows:</p> <ul style="list-style-type: none"> <li>Click <b>Protocol Management</b>.</li> <li>Click <b>Protocol Definition, Proxy &amp; Registration</b>.</li> <li>Administer settings as per below.</li> <li>When finished, click the <b>Submit</b> button on the bottom of the screen.</li> </ul>  |
|      |  <p>The screenshot shows the AudioCodes TrunkPack 260_UN web interface. The top navigation bar includes links for Protocol Definition, Advanced Parameters, Manipulation Tables, Routing Tables, Profile Definitions, Trunk Group, Trunk Group Settings, Digital Gateway Parameters, and VXML &amp; RADIUS Parameters. The left sidebar contains a menu with options: Quick Setup, Protocol Management (highlighted), Advanced Configuration, Status &amp; Diagnostics, Software Update, Save Configuration, and Reset. The main content area is titled 'Proxy &amp; Registration' and contains a list of configuration parameters:</p> <ul style="list-style-type: none"> <li>! Enable Proxy: Don't Use Proxy (dropdown)</li> <li>Proxy Name: (text field)</li> <li>! Proxy IP Address: 0.0.0.0 (text field)</li> <li>Gateway Name: (text field)</li> <li>Gateway Registration Name: (text field)</li> <li>First Redundant Proxy IP Address: 0.0.0.0 (text field)</li> <li>Second Redundant Proxy IP Address: 0.0.0.0 (text field)</li> <li>Third Redundant Proxy IP Address: 0.0.0.0 (text field)</li> <li>Enable Proxy SRV Queries: Disable (dropdown)</li> <li>Redundancy Mode: Parking (dropdown)</li> <li>Is Proxy Trusted: Yes (dropdown)</li> <li>! Enable Registration: Disable (dropdown)</li> <li>Registrar Name: (text field)</li> <li>Registrar IP Address: 0.0.0.0 (text field)</li> <li>Registration Time: 3600 (text field)</li> <li>Re-registration Timing [%]: 50 (text field)</li> <li>Registration Retry Time: 30 (text field)</li> <li>! Enable Proxy Keep Alive: Disable (dropdown)</li> <li>Proxy Keep Alive Time: 60 (text field)</li> <li>Use Gateway Name for OPTIONS: Yes (dropdown)</li> <li>Enable Fallback to Routing Table: Disable (dropdown)</li> <li>Prefer Routing Table: No (dropdown)</li> <li>Use Routing Table for Host Names and Profiles: Disable (dropdown)</li> <li>Always Use Proxy: Disable (dropdown)</li> <li>Send All Invite to Proxy: No (dropdown)</li> <li>Enable Proxy Hot-Swap: Disable (dropdown)</li> <li>Number of RTX Before Hot-Swap: 3 (text field)</li> <li>User Name: (text field)</li> <li>Password: (password field)</li> <li>Cnonce: 0a123bcf (text field)</li> </ul> <p>At the bottom of the configuration area, there are three buttons: Register, Un-Register, and Submit.</p> |


| Step      | Description   |           |             |    |           |  |  |           |  |  |           |  |  |           |  |  |
|-----------|---|-----------|-------------|----|-----------|--|--|-----------|--|--|-----------|--|--|-----------|--|--|
| 5.4       | <p>Configure <b>Coders</b> as follows:</p> <ul style="list-style-type: none"><li>• Click <b>Protocol Management</b>.</li><li>• Click <b>Protocol Definition, Coders</b>.</li><li>• Administer settings as per below.</li><li>• When finished, click the <b>Submit</b> button on the bottom of the screen.</li></ul> <p>Note:</p> <ul style="list-style-type: none"><li>• Configure a <b>Coder</b> that is supported on Avaya Meeting Exchange; either <b>g711Ulaw64k</b>, or <b>g711Alaw64k</b>.</li></ul>  |           |             |    |           |  |  |           |  |  |           |  |  |           |  |  |
|           | <div><div><div>AudioCodes</div><div>TrunkPack 260_UN</div></div><div><div><div>Protocol Definition</div><div>Advanced Parameters</div><div>Manipulation Tables</div><div>Routing Tables</div><div>Profile Definitions</div><div>Trunk Group</div><div>Trunk Group Settings</div><div>Digital Gateway Parameters</div><div>VXML &amp; RADIUS Parameters</div></div><div><div><div>Quick Setup</div><div>Protocol Management</div><div>Advanced Configuration</div><div>Status &amp; Diagnostics</div><div>Software Update</div><div>Save Configuration</div><div>Reset</div></div><div><div><div>Coders</div><table><tr><td>1st Coder</td><td>G711Ulaw64k</td><td>20</td></tr><tr><td>2nd Coder</td><td></td><td></td></tr><tr><td>3rd Coder</td><td></td><td></td></tr><tr><td>4th Coder</td><td></td><td></td></tr><tr><td>5th Coder</td><td></td><td></td></tr></table><div>Submit</div></div></div></div></div></div> | 1st Coder | G711Ulaw64k | 20 | 2nd Coder |  |  | 3rd Coder |  |  | 4th Coder |  |  | 5th Coder |  |  |
| 1st Coder | G711Ulaw64k   | 20        |             |    |           |  |  |           |  |  |           |  |  |           |  |  |
| 2nd Coder |   |           |             |    |           |  |  |           |  |  |           |  |  |           |  |  |
| 3rd Coder |   |           |             |    |           |  |  |           |  |  |           |  |  |           |  |  |
| 4th Coder |   |           |             |    |           |  |  |           |  |  |           |  |  |           |  |  |
| 5th Coder |   |           |             |    |           |  |  |           |  |  |           |  |  |           |  |  |

| Step | Description  |
|------|--|
| 5.5  | <p>Configure <b>Trunk Settings</b> to interoperate with Avaya Communication Manager (see <b>Step 3.4</b>) as follows:</p> <ul style="list-style-type: none"> <li>Click <b>Advanced Configuration</b>.</li> <li>Click <b>Trunk Settings</b>.</li> <li>Select <b>Trunk Number 1</b>.</li> <li>Administer settings as per below.</li> <li>When finished, click the <b>Apply Trunk Settings</b> button on the bottom of the screen.</li> </ul> |

The screenshot displays the AudioCodes TrunkPack 260\_UN configuration interface. The top navigation bar includes links for Network Settings, Channel Settings, Trunk Settings (highlighted), TDM Bus Settings, Configuration File, Regional Settings, and Change Password. A sidebar on the left lists various configuration options, with 'Advanced Configuration' highlighted. The main content area shows the 'Trunk Settings' page for Trunk 1. The 'Trunk Configuration' section includes fields for Trunk ID (1), Trunk Configuration State (Non Active), Protocol Type (T1 QSIG), Clock Master (Recovered), Line Code (B8ZS), Line Build Out Loss (0 dB), Trace Level (Full ISDN Trace), Line Build Out Overwrite (OFF), and Framing Method (Extended Super Frame). The 'ISDN Configuration' section includes fields for ISDN Termination Side (User side), Q931 Layer Response Behavior (0x0), Outgoing Calls Behavior (0x400), Incoming Calls Behavior (0x8000), General Call Control Behavior (0x0), NFAS Group Number (0), IUA Interface ID (-1), NFAS Interface ID (255), D-channel Configuration (PRIMARY), and Enable Receiving of Overlap Dialing (Disable). An 'Apply Trunk Settings' button is located at the bottom right of the configuration area.



| Step | Description  |
|------|--|
| 5.6  | <p>Configure <b>Trunk Group Table</b> as follows:</p> <ul style="list-style-type: none"><li>Click <b>Protocol Management</b>.</li><li>Click <b>Trunk Group</b>.</li><li>Administer settings as per below.</li><li>When finished, click the <b>Submit</b> button on the bottom of the screen.</li></ul> <p>Note:</p> <ul style="list-style-type: none"><li><b>1-23</b> channels for <b>Trunk ID 5</b> are provisioned due to Channel 24 being utilized as a signaling channel for QSIG.</li></ul> |

 **AudioCodes**

TrunkPack 260\_UN

◆ Quick Setup

◆ **Protocol Management**

◆ Advanced Configuration

◆ Status & Diagnostics

◆ Software Update

◆ Save Configuration

◆ Reset

Trunk Group Table

Trunk Group Index1-12

| Trunk ID | Channels | Phone Number | Trunk Group ID | Profile ID |
|----------|----------|--------------|----------------|------------|
| 1        | 1-23     | *            | 1              | 0          |
| 2        | 1        | *            | 1              | 0          |
| 3        | 1        | *            | 1              | 0          |
| 4        | 1        | *            | 1              | 0          |
| 5        | 1-23     | *            | 5              | 0          |
| 6        | 1        | *            | 1              | 0          |
| 7        | 1        | *            | 1              | 0          |
| 8        | 1        | *            | 1              | 0          |
| 9        |          |              |                |            |
| 10       |          |              |                |            |
| 11       |          |              |                |            |
| 12       |          |              |                |            |

Submit

SIP

| Step | Description  |
|------|--|
| 5.7  | <p>Configure <b>Trunk Group Settings</b> as follows:</p> <ul style="list-style-type: none"> <li>Click <b>Protocol Management</b>.</li> <li>Click <b>Trunk Group Settings</b>.</li> <li>Administer settings as per below.</li> <li>When finished, click the <b>Submit</b> button on the bottom of the screen.</li> </ul> <p>Note:</p> <ul style="list-style-type: none"> <li>The <b>Channel Select Mode</b> is provisioned to 'hunt' in the opposite direction as Avaya Communication Manager (see <b>Step 3.7</b>).</li> </ul> |

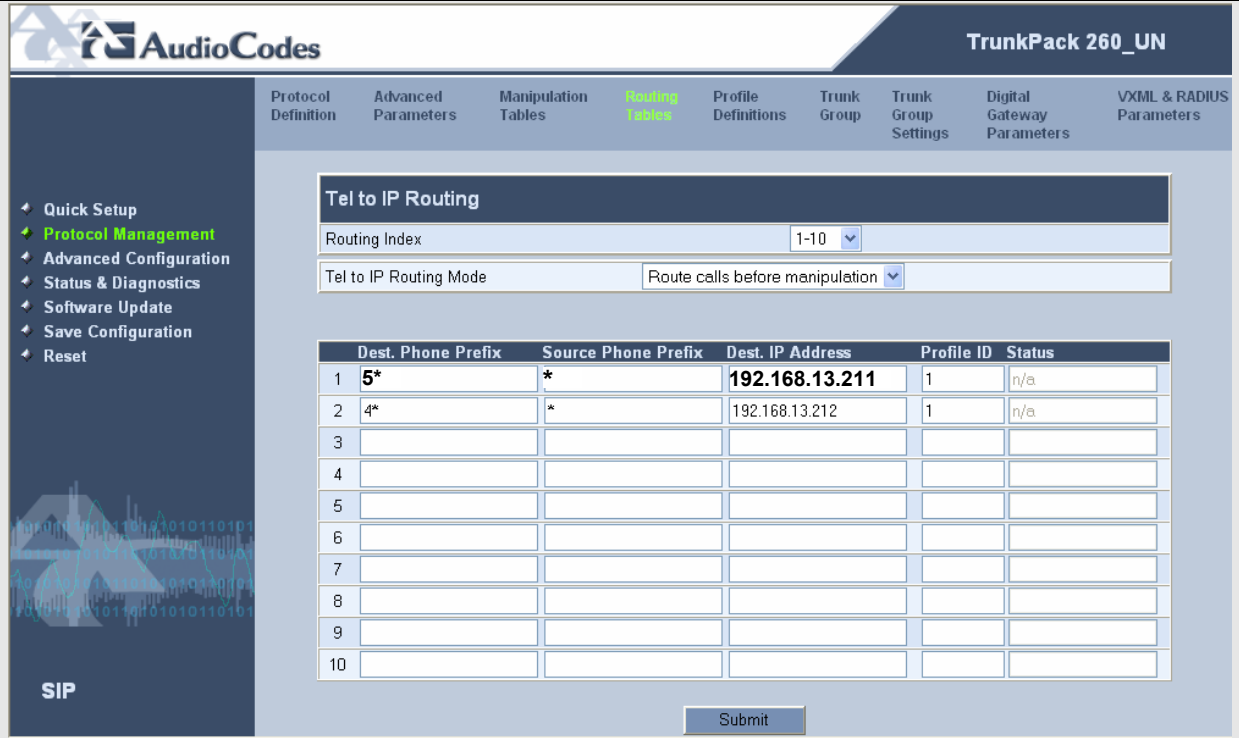
The screenshot displays the AudioCodes TrunkPack 260\_UN configuration interface. The top navigation bar includes tabs for Protocol Definition, Advanced Parameters, Manipulation Tables, Routing Tables, Profile Definitions, Trunk Group, Trunk Group Settings (highlighted), Digital Gateway Parameters, and VXML & RADIUS Parameters. The left sidebar contains a menu with options: Quick Setup, Protocol Management (highlighted), Advanced Configuration, Status & Diagnostics, Software Update, Save Configuration, and Reset. The main content area is titled 'Trunk Group Settings' and features a 'Routing Index' dropdown set to '1-12'. Below this is a table with 12 rows, each representing a Trunk Group ID and its corresponding Channel Select Mode. The first row shows ID 1 with a 'Descending' mode. The other rows show IDs 2 through 12, all with 'Descending' mode. A 'Submit' button is located at the bottom right of the table.

| Trunk Group ID | Channel Select Mode |
|----------------|---------------------|
| 1              | Descending          |
| 2              | Descending          |
| 3              |                     |
| 4              |                     |
| 5              |                     |
| 6              |                     |
| 7              |                     |
| 8              |                     |
| 9              |                     |
| 10             |                     |
| 11             |                     |
| 12             |                     |

| Step | Description  |
|------|--|
| 5.8  | <p>To enable Dial-Out from Avaya Meeting Exchange, configure the <b>IP to Trunk Group Routing Table</b> as follows:</p> <ul style="list-style-type: none"> <li>Click <b>Protocol Management</b>.</li> <li>Click <b>Routing Tables, IP to Trunk Group Routing</b>.</li> <li>Administer settings as per below.</li> <li>When finished, click the <b>Submit</b> button on the bottom of the screen.</li> </ul> <p>Note:</p> <ul style="list-style-type: none"> <li>All calls originating from <b>Source IP Address = 192.168.13.211</b> (Avaya Meeting Exchange) are 'routed' to <b>Trunk Group ID = 1</b> (the trunk that connects to Avaya Communication Manager).</li> </ul> |

The screenshot displays the AudioCodes TrunkPack 260\_UN configuration interface. The top navigation bar includes tabs for Protocol Definition, Advanced Parameters, Manipulation Tables, Routing Tables (highlighted), Profile Definitions, Trunk Group, Trunk Group Settings, Digital Gateway Parameters, and VXML & RADIUS Parameters. A left sidebar lists navigation options: Quick Setup, Protocol Management (highlighted), Advanced Configuration, Status & Diagnostics, Software Update, Save Configuration, and Reset. The main content area is titled 'IP to Trunk Group Routing Table'. It features a 'Routing Index' dropdown set to '1-12' and an 'IP To Tel Routing Mode' dropdown set to 'Route calls before manipulation'. Below these is a table with 12 rows and 5 columns: Dest. Phone Prefix, Source Phone Prefix, Source IP Address, Trunk Group ID, and Profile ID. Row 1 is pre-filled with '\*' for both prefixes, '192.168.13.211' for the source IP, '1' for the trunk group ID, and '0' for the profile ID. Row 2 is pre-filled with '\*' for both prefixes, '192.168.13.212' for the source IP, '5' for the trunk group ID, and '0' for the profile ID. Rows 3 through 12 are empty. A 'Submit' button is located at the bottom right of the table area.

|    | Dest. Phone Prefix | Source Phone Prefix | Source IP Address | Trunk Group ID | Profile ID |
|----|--------------------|---------------------|-------------------|----------------|------------|
| 1  | *                  | *                   | 192.168.13.211    | 1              | 0          |
| 2  | *                  | *                   | 192.168.13.212    | 5              | 0          |
| 3  |                    |                     |                   |                |            |
| 4  |                    |                     |                   |                |            |
| 5  |                    |                     |                   |                |            |
| 6  |                    |                     |                   |                |            |
| 7  |                    |                     |                   |                |            |
| 8  |                    |                     |                   |                |            |
| 9  |                    |                     |                   |                |            |
| 10 |                    |                     |                   |                |            |
| 11 |                    |                     |                   |                |            |
| 12 |                    |                     |                   |                |            |

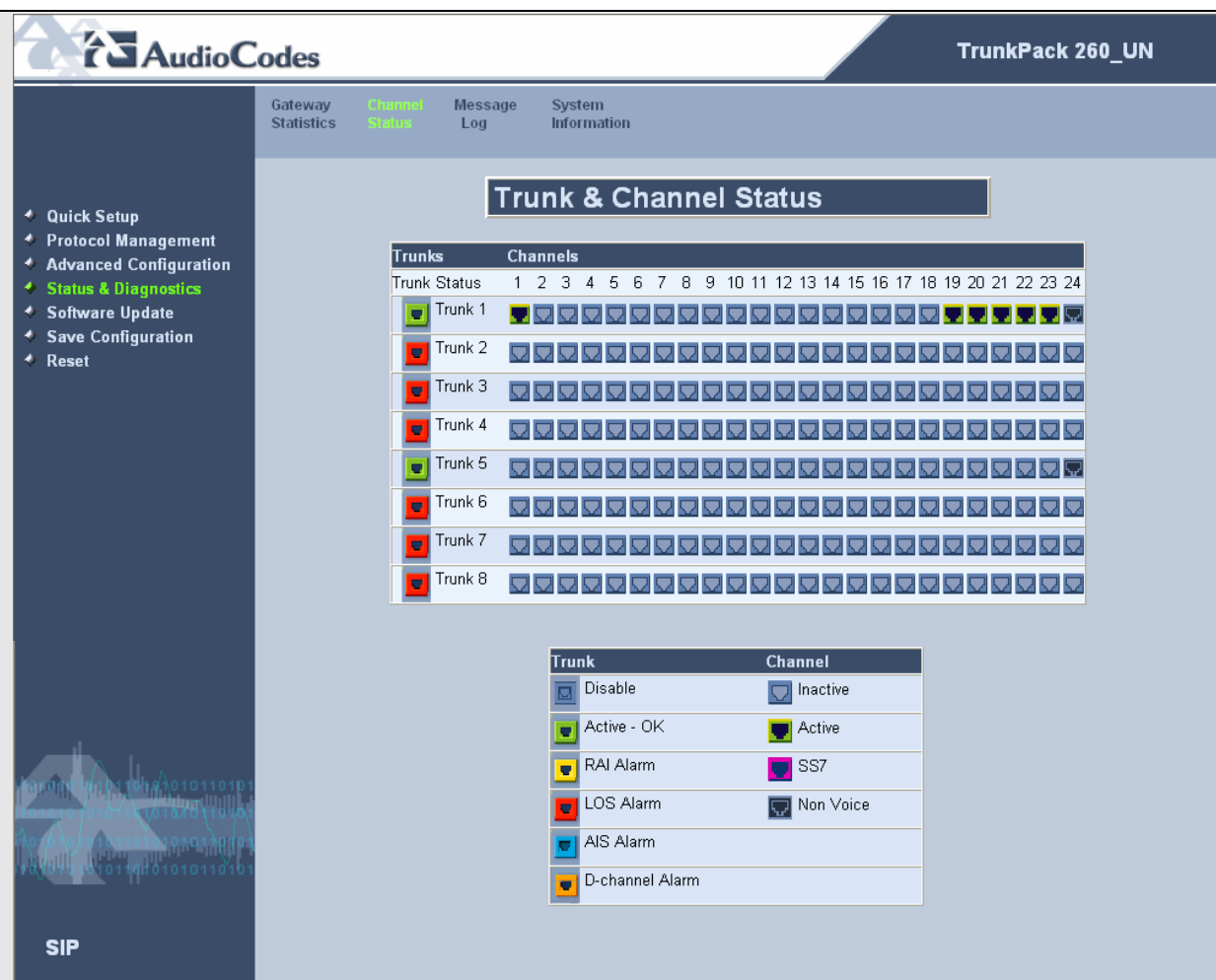
| Step | Description   |
|------|---|
| 5.9  | <p>To allow Dial-In to Avaya Meeting Exchange, configure <b>Tel to IP Routing</b> as follows:</p> <ul style="list-style-type: none"> <li>Click <b>Protocol Management</b>.</li> <li>Click <b>Routing Tables, Tel to IP Routing</b>.</li> <li>Administer settings as per below.</li> <li>When finished, click the <b>Submit</b> button on the bottom of the screen.</li> </ul> <p>Note:</p> <ul style="list-style-type: none"> <li>All calls with <b>Dest. Phone Prefix</b> = <b>5*</b> are 'routed' to <b>Dest. IP Address</b> = <b>192.168.13.211</b> (Avaya Meeting Exchange).</li> </ul> |
|      |    |

## 6. Verification Steps

The following steps can be used to verify the configuration described in these Application Notes.

| Step | Description  |
|------|--|
| 6.1  | <p>Verify all members for the ISDN trunk group are <b>in-service/idle</b>.</p> <p>From a SAT session:</p> <ul style="list-style-type: none"> <li>• Issue the command “<b>status trunk 3</b>”.</li> <li>• All members should return the value <b>in-service/idle</b>.</li> </ul>  |
| 6.2  | <p>Run the <b>dcbps</b> script to verify all ‘conferencing related’ processes are running on Avaya Meeting Exchange.</p> <ul style="list-style-type: none"> <li>• <b>Log in</b> to the Avaya Meeting Exchange Server.</li> <li>• <b>cd</b> to <b>/usr/dcb/bin</b></li> <li>• At the command prompt, run the script: <b>dcbps</b></li> </ul> <p>Note:</p> <ul style="list-style-type: none"> <li>• All processes are running.</li> </ul> <pre> S6200&gt; ./dcbps 1719  FP 101 ?      0:00 bridgeTr 1718  FP 101 ?      0:00 log 1676  FP 144 ?      0:01 initdcb 1720  FP 105 ?      0:00 netservei 1723  FP 129 ?      0:00 timer 1724  FP 101 ?      0:00 traffic 1725  FP 104 ?      0:00 chdbased 1726  FP 101 ?      0:00 startd 1727  FP 109 ?      0:00 cdr 1728  FP 101 ?      0:00 modapid 1729  FP 101 ?      0:00 schapid 1730  FP 104 ?      0:00 callhand 1731  FP 139 ?      0:00 initipcb 1732  FP 139 ?      0:00 sipagent 1733  FP 139 ?      0:00 msdispat 1734  FP 158 ?      0:00 softms 1574  TS  80 ?      0:00 sqlexecd with 5 children </pre> |

| Step | Description   |
|------|---|
| 6.3  | <p>Verify the ISDN trunk group is utilized when a call from a SIP station Dials-In to Avaya Meeting Exchange.</p> <p>From a SAT session:</p> <ul style="list-style-type: none"> <li>Issue the command “<b>list trace tac 103</b>”, where <b>103</b> is the TAC defined for the trunk group provisioned in <b>Step 3.6</b>.</li> </ul> <p>From a SIP station, dial <b>556</b> to initiate a DNIS <b>direct</b> with Auto Blast call scenario.</p> <p>Note:</p> <ul style="list-style-type: none"> <li>The hunt pattern for this trunk is ascending.</li> </ul> |
|      | <pre>list trace tac 103</pre> <p style="text-align: right;">Page 1</p> <pre> LIST TRACE  time          data 17:21:25      dial 556 route:AAR 17:21:25      term trunk-group 3      cid 0x219 17:21:25      dial 556 route:AAR 17:21:25      route-pattern 3 preference 1  cid 0x219 17:21:25      seize trunk-group 3 member 1  cid 0x219 17:21:25      Calling Number &amp; Name 31002 SIP 31002 17:21:25      Proceed trunk-group 3 member 1  cid 0x219 17:21:26      active trunk-group 3 member 1  cid 0x219 </pre>                                       |

| Step  | Description   |       |         |         |          |             |        |           |     |           |           |           |  |                 |  |
|---|---|-------|---------|---------|----------|-------------|--------|-----------|-----|-----------|-----------|-----------|--|-----------------|--|
| 6.4   | <p>Verify ISDN <b>Trunk &amp; Channel Status</b> on AudioCodes as follows:</p> <ul style="list-style-type: none"> <li>Click <b>Status &amp; Diagnostics</b>.</li> <li>Click <b>Channel Status</b>.</li> </ul> <p>Note:</p> <ul style="list-style-type: none"> <li>This screen capture depicts the Auto Blast Dial initiated in <b>Step 6.3</b>.</li> <li>Status for <b>Trunk 1</b> is <b>Active - OK</b>.</li> <li>'Hunt' pattern for 6 <b>Active</b> channels on <b>Trunk 1</b>. <ul style="list-style-type: none"> <li>Ascending Channels are used for Dial-In. For this scenario, <b>Channel 1</b> is the moderator.</li> <li>Channels 19-23 are the conferees that were added to the conference via Auto Blast Dial.</li> </ul> </li> </ul> |       |         |         |          |             |        |           |     |           |           |           |  |                 |  |
|  <p>The screenshot displays the AudioCodes Trunk &amp; Channel Status interface. The top navigation bar includes 'Gateway Statistics', 'Channel Status' (highlighted), 'Message Log', and 'System Information'. The left sidebar lists various configuration options, with 'Status &amp; Diagnostics' selected. The main content area features a table titled 'Trunk &amp; Channel Status' with columns for 'Trunks' and 'Channels'. The table lists 8 trunks and 24 channels. Trunk 1 is marked as 'Active - OK' (green icon), while others are 'Inactive' (blue icon). A legend at the bottom defines the status icons: Disable (blue square), Active - OK (green square), RAI Alarm (yellow square), LOS Alarm (red square), AIS Alarm (blue square), D-channel Alarm (orange square), Inactive (blue square), Active (green square), SS7 (purple square), and Non Voice (black square).</p> <table border="1"> <thead> <tr> <th>Trunk</th> <th>Channel</th> </tr> </thead> <tbody> <tr> <td>Disable</td> <td>Inactive</td> </tr> <tr> <td>Active - OK</td> <td>Active</td> </tr> <tr> <td>RAI Alarm</td> <td>SS7</td> </tr> <tr> <td>LOS Alarm</td> <td>Non Voice</td> </tr> <tr> <td>AIS Alarm</td> <td></td> </tr> <tr> <td>D-channel Alarm</td> <td></td> </tr> </tbody> </table> |   | Trunk | Channel | Disable | Inactive | Active - OK | Active | RAI Alarm | SS7 | LOS Alarm | Non Voice | AIS Alarm |  | D-channel Alarm |  |
| Trunk   | Channel   |       |         |         |          |             |        |           |     |           |           |           |  |                 |  |
| Disable   | Inactive  |       |         |         |          |             |        |           |     |           |           |           |  |                 |  |
| Active - OK   | Active  |       |         |         |          |             |        |           |     |           |           |           |  |                 |  |
| RAI Alarm   | SS7   |       |         |         |          |             |        |           |     |           |           |           |  |                 |  |
| LOS Alarm   | Non Voice   |       |         |         |          |             |        |           |     |           |           |           |  |                 |  |
| AIS Alarm   |   |       |         |         |          |             |        |           |     |           |           |           |  |                 |  |
| D-channel Alarm   |   |       |         |         |          |             |        |           |     |           |           |           |  |                 |  |

| Step | Description   |
|------|---|
| 6.5  | <p>Verify that calls to and from Avaya Meeting Exchange are managed correctly, e.g., callers are added/removed from conferences.</p> <p>This is verified visually by the following procedures:</p> <ul style="list-style-type: none"> <li>• <b>Log In</b> to Avaya Bridge Talk</li> <li>• <b>Double-Click</b> the highlighted <b>Conf #</b> to open a <b>Conference Room</b> window</li> <li>• Verify callers are added/removed from conferences by observing the Conference Navigator and/or Conference Room windows</li> </ul> <p>Note:</p> <ul style="list-style-type: none"> <li>• This screen capture depicts the Auto Blast Dial initiated in <b>Step 6.3</b>.</li> </ul> |

Avaya Bridge Talk - 192.168.13.211 Operator 1 - 8/16/06 5:20:54 PM

File View Line Conference FastDial Tools Window Help

Main

Access Conference Display Enter Fastdial help reQuests Line Music Options Purge Set Transfer retrieveVe Update ? Help

| Conf # | Conf Name  | TP | Conf ID       | Confirm #     | Mod Code | Conferee C... | Music Source |
|--------|------------|----|---------------|---------------|----------|---------------|--------------|
| 1      | Auto Blast | 6  | 0000000000013 | 0000000000013 | 556      | 1556          | Off          |
| 2      |            | 0  |               |               |          |               | Off          |
| 3      |            | 0  |               |               |          |               | Off          |
| 4      |            | 0  |               |               |          |               | Off          |
| 5      |            | 0  |               |               |          |               | Off          |
| 6      |            | 0  |               |               |          |               | Off          |
| 7      |            | 0  |               |               |          |               | Off          |
| 8      |            | 0  |               |               |          |               | Off          |
| 9      |            | 0  |               |               |          |               | Off          |
| 10     |            | 0  |               |               |          |               | Off          |
| 11     |            | 0  |               |               |          |               | Off          |
| 12     |            | 0  |               |               |          |               | Off          |

Room=1, Prompt Set=English, Auto Blast, TP=6

Clear all ☒ Entry Tone ☒ Exit Tone ☐ Gain ☐ Hang up ☐ Lecture ☐ Lock ☐ SecAllowed ☐ Polling ☐ Q&A... ☐ Print ☐ Detail...

| Talk | Line | Name       | Conf | Company | Phone | Caller ID | PIN | Network | Current   | Base      |
|------|------|------------|------|---------|-------|-----------|-----|---------|-----------|-----------|
|      | 1    | SIP_01     | C1   |         | 31001 |           |     | VOIP    | Normal    | Normal    |
|      | 2    | H323_01    | C1   |         | 33001 |           |     | VOIP    | Normal    | Normal    |
|      | 3    | Digital_01 | C1   |         | 32001 |           |     | VOIP    | Normal    | Normal    |
|      | 4    | Digital_02 | C1   |         | 32002 |           |     | VOIP    | Normal    | Normal    |
|      | 5    | Digital_03 | C1   |         | 32003 |           |     | VOIP    | Normal    | Normal    |
|      | 12   | 556        | C1   |         |       | 31002     |     | VOIP    | Moderator | Moderator |

AVL - 230 DC - 0 ENT - 0 DNIS ENT - 0 FLT - 0 HLP - 0 OPR - TLK - off ACCESSED LINE -



## 7. Conclusion

These Application Notes have presented the steps required for configuring the following:

- Dial-In to Avaya Meeting Exchange from Avaya Communication Manager via ISDN-PRI.
- Dial-Out from Avaya Meeting Exchange to Avaya Communication Manager via ISDN-PRI.

## 8. Additional References

- *Administrator Guide for Avaya Communication Manager*, Doc ID: 03-300509, available at <http://support.avaya.com>
- *Administration for Network Connectivity for Avaya Communication Manager*, Doc ID: 555-233-504, available at <http://support.avaya.com>
- *Meeting Exchange Field Service Guide for the S6200, S6500, and S6800 1.2 Media Servers*, Doc ID: 04-300521, available at <http://support.avaya.com>
- *Bridge Talk User's Guide, Version 4.0*, Doc ID: 81100300, available at <http://support.avaya.com>
- *TP-260 UN SIP User's Manual Version 4.4*, Document #: LTRT-68002

---

**©2006 Avaya Inc. All Rights Reserved.**

Avaya and the Avaya Logo are trademarks of Avaya Inc. All trademarks identified by ® and ™ are registered trademarks or trademarks, respectively, of Avaya Inc. All other trademarks are the property of their respective owners. The information provided in these Application Notes is subject to change without notice. The configurations, technical data, and recommendations provided in these Application Notes are believed to be accurate and dependable, but are presented without express or implied warranty. Users are responsible for their application of any products specified in these Application Notes.

Please e-mail any questions or comments pertaining to these Application Notes along with the full title name and filename, located in the lower right corner, directly to the Avaya Solution & Interoperability Test Lab at [interoplabnotes@list.avaya.com](mailto:interoplabnotes@list.avaya.com)