This Quick Setup guide is intended for technicians administering Avaya SIP Softphone Release 2.1. Before performing the procedures in this guide, make sure the following conditions exist:

- A media server is installed and is running Avaya Communication Manager (CM) Release 3.0 or later.
- A host computer is installed and is running Avaya SIP Enablement Services (SES) Release 3.1.
- You are familiar with administering Avaya Communication Manager and Avaya SES.

When setting up SIP trunks, you will need to know the following information:

- number of off-PBX stations
- maximum number of SIP trunks
- node name of the Avaya SES
- IP address of the Avaya SES
- TAC for the SIP trunk group
- number of members for the SIP trunk group

1. Configure Avaya Communication Manager.

   1. Use the `change system-parameters customer-option` command to set the following parameters:
      - Maximum Off-PBX telephones - OPS (page 1 of form)
      - Maximum Administered SIP Trunks (page 2 of form)
      - Enhanced EC500 to “y” (page 4 of form)
      - IP Trunks to “y” (page 4 of form)

   2. Use the `change node-names ip` command to set the following parameters:
      - host name of the Avaya SES
      - IP address of the Avaya SES

   3. If necessary, use the `change system-parameters features` command to set Trunk-to-Trunk Transfer to “all.” Note that setting Trunk-to-Trunk Transfer to “all” can increase the chances of toll fraud.

   4. Use the `change ip-network-region` command to set the authoritative domain (domain.com) of the Avaya SES on all applicable regions.

   5. Use the `change public-unknown-numbering #` command to make sure every extension range on Avaya Communication Manager is specified on the NUMBERING - PUBLIC/UNKNOWN FORMAT form.

   6. Use the `change cor #` command to set Calling Party Restriction to “none.”
Set up a SIP trunk between the server running Avaya Communication Manager and the server running Avaya SES.

1. Use the `add signaling-group #` command to add a SIP signaling group. Set the following parameters:
   - Group Type to "sip"
   - Transport Method to “tls.” (This is the default setting.)
   - Depending on the type of system, perform one of the following steps:
     ● For an S8500 system or an S8700-series system, set Near-end Node Name to a designated CLAN.
     ● For an S8300 system, set Near-end Node Name to "procr.”
   - Far-end Node Name. Enter the node name of the Avaya SES you entered in Step 2 of Procedure 1.
   - Near-end Listen Port to "5061". (This is the default setting.)
   - Far-end Listen Port to "5061"
   - Far-end Domain Name. Enter either the local Avaya SES domain name or the far-end SIP server domain name to be reached.
   - DTMF over IP to “rtp-payload”. (This is the default setting.)

2. Use the `add trunk-group #` command to add a SIP trunk group. Set the following parameters:
   - Group Type to "sip"
   - Group Name
   - TAC. (You must enter a TAC even though the TAC is not used for accessing a SIP trunk.)
   - Service Type to "tie"
   - Signaling Group to the number of the signaling group you created in Step 1 of this procedure.
   - Number of Members (up to 255). (This is the number of concurrent users who will be using the trunk.)
   - Administer fields on page 2 as appropriate for the customer.

3. Use the `change route-pattern #` command to route outgoing calls over the SIP trunks by using AAR/ARS. Set the following parameters:
   - Trunk Group Number to the number of the trunk group you added in Step 2.
   - FRL to “0” or appropriate FRL number
   - A route-pattern name that is easy to identify.

   **Note:**
   Even though AAR/ARS (and therefore route patterns) is optional in Avaya Communication Manager R3.1, you need a route pattern administered for next step.

4. Use the `change locations` command to specify the route pattern. Set the following parameters:
   - Proxy Sel Rte Pat. to the route pattern you added in Step 3.
   - Make the same route pattern entry for each location administered on this form.

5. If using AAR, use the `change aar analysis #` command to specify how Avaya Communication Manager will analyze a digit string to determine the pattern for the call. Set the following parameters:
   - Minimum/maximum digits to be used in the trunk call
   - Route pattern #
3 Configure a Meet-me conference extension for the Click-to-Conference feature.

1. Use the change system-parameters customer command and enable all vectoring fields on the CALL CENTER OPTIONAL FEATURES form (page 6).
2. Use the change vector # command to create a vector. Set the following parameters:
   - Name
   - Meet-me Conf? to “y”
   - Step 01 to “wait-time 2 secs hearing silence”
   - Step 02 to “route-to meetme”
   - Step 03 to “stop”
3. Use the add vdn # command to add a VDN for each conference extension. Set the following parameters:
   - Name
   - Vector Number to the vector you created in Step 2 of this procedure.
   - Meet-me Conferencing? to “y”
   - COR to the appropriate setting

4 Use the add station # command to create an AWOH station for the Avaya SIP Softphone in Avaya Communication Manager. It is recommended that you use the 4620 station type.
   - Enter X in the Port field.
   - In the BUTTON ASSIGNMENTS section (page 3), be sure to specify at least five call appearances for this station.
   - In the BUTTON ASSIGNMENTS section (page 3), assign the appropriate Advanced SIP Telephony features for this station.

5 Configure an OPTIM extension in Avaya Communication Manager.

1. Use the add off-pbx-telephone station-mapping command to configure an OPTIM extension. Set the following parameters:
   - Station Extension to the extension of the Avaya SIP Softphone. (You added this extension in Procedure 4.)
   - Application to “OPS”
   - Phone Number to the extension of the Avaya SIP Softphone.
   - Dial Prefix to the AAR/ARS code used for the SIP trunk if AAR/ARS is being used. Otherwise, this field is blank.
   - Set Trunk Selection to either “aar,” “ars,” or the trunk number of the SIP trunk. (This is the trunk group number you specified in Step 2 of Procedure 2.) It is recommended that you use the trunk number.
   - Configuration Set. Enter 1 if you want to use the default settings. Be sure to review the fields under the configuration set to customize for each customer. For customers that do not use the North American dial plan, Fast Connect on Origination should be set to “Yes” to receive Avaya Communication Manager call progress tones.
   - Call Limit to at least 5
2. If extended features will be used, use the change off-pbx-telephone feature-name-extensions command to assign extensions to available features (such as conferencing, call forwarding, and send all calls).
Configure Avaya SES.

1. Create a Media Server. (The Media Server provides a connection between Avaya SES and Avaya Communication Manager using a designated CLAN/procr.)

2. Add a conference extension to support the Click-to-Conference feature. Set Extension to the Meet-me Conference extension you specified in Avaya Communication Manager.

3. Add a user for the Avaya SIP Softphone. Set the following parameters:
   - User Handle
   - Password
   - Host to which the user will register
   - First Name of user
   - Last Name of user
   - Add Media Server Extension. The Media Server Extension should match the AWOH extension created in Avaya Communication Manager.