Managing Node-Level SIP Settings

The **Node-Level SIP Settings** feature enables SIP options to be configured that apply to the SBC 1000/2000 at the node-level. These items include the following:

- **Call Admission Control.** Provides SIP level call admission control by regulating call attempts.
- **Source IP Untrusted Alarm.** Sets alarm when an Invite is received from for an untrusted source.
- **Skype/Lync Third Party Presence.** Enables the SBC 1000/2000 to pass a non-Skype/Lync device's presence information to a Skype/Lync presence server on behalf of an existing Skype/Lync client.
- **Skype/Lync Edge Server.** When a Lync Edge Server is configured, SIP receives notice and create a signaling group that handles all Service Sessions for the SBC.
- **UserInfo Handling.** Determines whether legacy or RFC 3261 rules are applied to the User Info portion of the SIP URI. (For examples, refer to [UserInfo Decode Options for Transformation Table - Comparison of Legacy and RFC-3261.](#))

Configure SIP Settings

To configure SIP Settings:

1. In the WebUI, click the **Settings** tab.

2. In the left navigation pane, go to **SIP > Node-level SIP Settings.**

3. Configure the options.

4. Click **Apply.**

![Figure 1: SIP Settings Dialog Example](#)
Node-Level SIP Settings - Field Definitions

CAC Admin State

A Call Admission Profile provides SIP level call admission control by regulating call attempts per second, and the rate of new invite/non-invite sessions. Once the SBC limits are met, SIP will no longer accept/issue new invite or non-invite sessions (except 911 calls). This feature protects the SBC from overload conditions (an overload condition is detected if the average rate of invite and non-invite sessions exceeds the pre-determined limit or the CPU threshold is exceeded). It also prevents internal/external DOS attacks in an otherwise normal network using overload detection and resource leaks/malfunction detection.

When rejecting calls or sessions on account of admission-control, SBC sends "480 Temporarily Unavailable" response to the peers.

Options: Enable (default; enables SIP level call admission control) or Disable (disables SIP level call admission control).

Alarm for Untrusted Invite

Enables the "SIP Request From Untrusted IP" alarm to be sent when the SBC receives an INVITE message from an untrusted IP source. Options: Enable (alarm is sent); Disable (alarm is not sent). For more information on alarms, see Alarms and Events Reference.
Presence Destination

Determines the server to which a Publish message is sent containing the presence information. This server is defined in a SIP Server Table. Only servers whose protocol is TLS are available in the Presence Destination list box.

Edge Server Destination

Specifies the Edge server where service message is sent to gather TURN server security tokens for SBC Edge to act as an ICE call agent. Only the servers whose protocol is TLS are available in the Edge Server Destination list box.

This server is defined in a SIP Server Table.

Edge Server Token Duration

Specifies the number of minutes for which the security token needs to be valid.

UserInfo Decode

Options are Legacy (the default) or RFC 3261 (decode).

Figure 2: Transformation Details

Using the example <sip:2298082;ext=2222@vervain.com>:

<table>
<thead>
<tr>
<th>If this is selected...</th>
<th>Then the CCC/CallRouter will receive...</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Legacy</strong></td>
<td><strong>Calling Num =&gt; 2298082</strong></td>
</tr>
<tr>
<td></td>
<td>IE_SIP_PARAMETER_UI_CALLING_EXT=&gt; 2222</td>
</tr>
<tr>
<td></td>
<td>which leads to the following Input Fields in Transformation:</td>
</tr>
<tr>
<td></td>
<td><strong>Calling Address/Number = 2298082</strong></td>
</tr>
<tr>
<td></td>
<td>Calling Extension = 2222</td>
</tr>
<tr>
<td><strong>RFC 3261</strong></td>
<td><strong>Calling Num=&gt; 2298082;ext=2222</strong></td>
</tr>
<tr>
<td></td>
<td>IE_SIP_PARAMETER_UI_CALLING_EXT=&gt; 2222</td>
</tr>
<tr>
<td></td>
<td>which leads to the following Input Fields in Transformation:</td>
</tr>
<tr>
<td></td>
<td><strong>Calling Address/Number = 2298082;ext=2222</strong></td>
</tr>
<tr>
<td></td>
<td>Calling Extension = 2222</td>
</tr>
</tbody>
</table>

For examples, refer to UserInfo Decode Options for Transformation Table - Comparison of Legacy and RFC-3261.