

Using Lync Setup for E911 Configuration

As part of the SBC Edge Web Interface's built-in step-by-step setup configuration wizard, the **Tasks > Emergency Services** option enables you to configure Emergency Services. When **Lync E911** or **911** is selected as the Emergency Services option, the system automatically creates the emergency services information in the following WebUI locations:

- Transformation Table
- Call Routing Table
- SIP Profile
- Callback Number Pool
- Emergency Services Configuration

Below details a sample configuration for E911 (Emergency Services), along with the resulting WebUI configuration options that are created.

Sample E911 (Emergency Services) Configuration

The following is an example of E911 configuration for a **SIP <-> ISDN** scenario using Lync E911.

Figure 1: E911 Configuration Example

The screenshot displays the Sonus SBC Easy Configuration wizard interface. The left sidebar shows a navigation menu with categories like System, Application Solution Module, Lync™ Survivable Branch Appliance, and SIP/Protocols. The main content area is titled "Easy Configuration" and shows "Step 1" of a three-step process. The "Scenario Parameters" section includes the following fields:


- Application: SIP Trunk <-> Microsoft UC
- Scenario Description: (empty)
- Telephone Country: United States
- Emergency Services: E911/E112
- Emergency Callback Number 1: 15105745000
- Emergency Callback Number 2: (empty)
- PSAP Number: 15105745911

Below the scenario parameters, there are two sections for SIP Properties:

- SIP Trunk:** Name: Generic SIP Trunk
- Microsoft UC:** Version: Skype for Business

At the bottom of the wizard, there are navigation buttons: Cancel, Previous, Next, and Finish.

Configuration options created as a result of E911 Changes

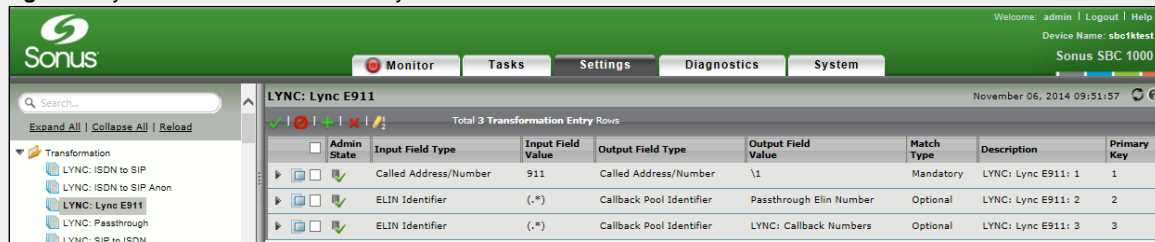
 The E911 Elin number from the "CompanyName" field configured in Lync location services is used as the authoritative Call Back number for outgoing E911 calls, and is always the preferred configuration. Specifically, it will take precedence over any Callback Number number configuration in Lync Setup. For more information, see [Creating and Modifying Entries to Transformation Tables](#).

Transformation Table

A Transformation entry is created for Lync E911, which includes table entries for Called Address/Number, ELIN Identifier, and Callback Pool Identifier (the emergency call back number table or Passthrough ELIN number used for calls destined to 911). For specific information about the Passthrough ELIN Number, see [Creating and Modifying Entries to Transformation Tables](#).

For easy identification, the **Description** field matches the Scenario description you configured in Lync Setup. For more information about Transformation Tables, see [Managing Transformation Tables](#).

Figure 2: Lync E911 Transformation Entry



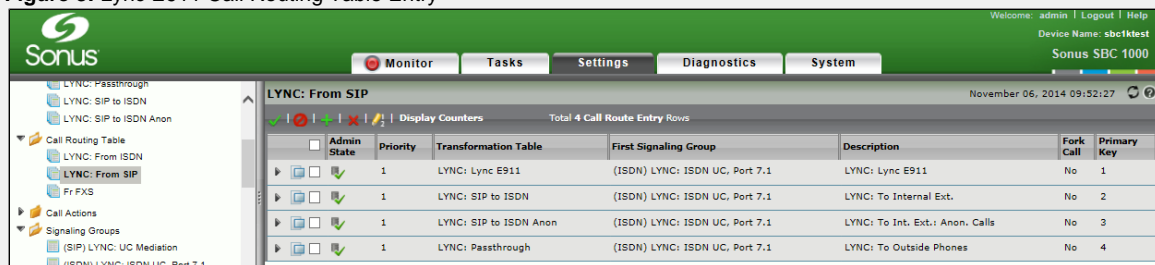
The screenshot shows the Sonus SBC 1000 management interface. The left sidebar shows a tree view with 'Transformation' expanded, containing entries for 'LYNC: ISDN to SIP', 'LYNC: ISDN to SIP Anon', 'LYNC: Lync E911', 'LYNC: Passthrough', and 'LYNC: SIP to ISDN'. The main pane displays 'LYNC: Lync E911' with a table of 3 Transformation Entry Rows.

Admin State	Input Field Type	Input Field Value	Output Field Type	Output Field Value	Match Type	Description	Primary Key
<input type="checkbox"/>	Called Address/Number	911	Called Address/Number	\1	Mandatory	LYNC: Lync E911: 1	1
<input type="checkbox"/>	ELIN Identifier	(.*)	Callback Pool Identifier	Passthrough Elin Number	Optional	LYNC: Lync E911: 2	2
<input type="checkbox"/>	ELIN Identifier	(.*)	Callback Pool Identifier	LYNC: Callback Numbers	Optional	LYNC: Lync E911: 3	3

Call Routing Table

A Lync E911 entry is created in the Call Routing Table for routing calls from SIP to ISDN. For more information about Call Routing Tables, see [Managing Call Routing Tables](#).

Figure 3: Lync E911 Call Routing Table Entry



The screenshot shows the Sonus SBC 1000 management interface. The left sidebar shows a tree view with 'Call Routing Table' expanded, containing entries for 'LYNC: From ISDN', 'LYNC: From SIP', and 'FR FXS'. The main pane displays 'LYNC: From SIP' with a table of 4 Call Route Entry Rows.

Admin State	Priority	Transformation Table	First Signaling Group	Description	Fork Call	Primary Key
<input type="checkbox"/>	1	LYNC: Lync E911	(ISDN) LYNC: ISDN UC, Port 7.1	LYNC: Lync E911	No	1
<input type="checkbox"/>	1	LYNC: SIP to ISDN	(ISDN) LYNC: ISDN UC, Port 7.1	LYNC: To Internal Ext.	No	2
<input type="checkbox"/>	1	LYNC: SIP to ISDN Anon	(ISDN) LYNC: ISDN UC, Port 7.1	LYNC: To Int. Ext.: Anon. Calls	No	3
<input type="checkbox"/>	1	LYNC: Passthrough	(ISDN) LYNC: ISDN UC, Port 7.1	LYNC: To Outside Phones	No	4

SIP Profile

A Lync SIP Profile is created in the SIP Profile table. SIP Profiles control the how the SBC Edge communicates with SIP devices. For more information about SIP Profiles, see [Managing SIP Profiles](#).

Figure 4: Lync SIP Profile

The screenshot shows the Sonus SIP Profile configuration interface. At the top, there is a green header with the Sonus logo and navigation tabs: Monitor, Tasks, Settings, Diagnostics, and System. The left sidebar contains a tree view of configuration categories, with 'SIP Profiles' expanded to show 'LYNC: SIP Profile'. The main content area is titled 'SIP Profile Table' and shows a table with one row for 'LYNC: SIP Profile'. Below the table are two configuration panels: 'Session Timer' and 'MIME Payloads'.

Description	Primary Key
LYNC: SIP Profile	1

Session Timer

Session Timer: Disable

MIME Payloads

ELIN Identifier: LOC

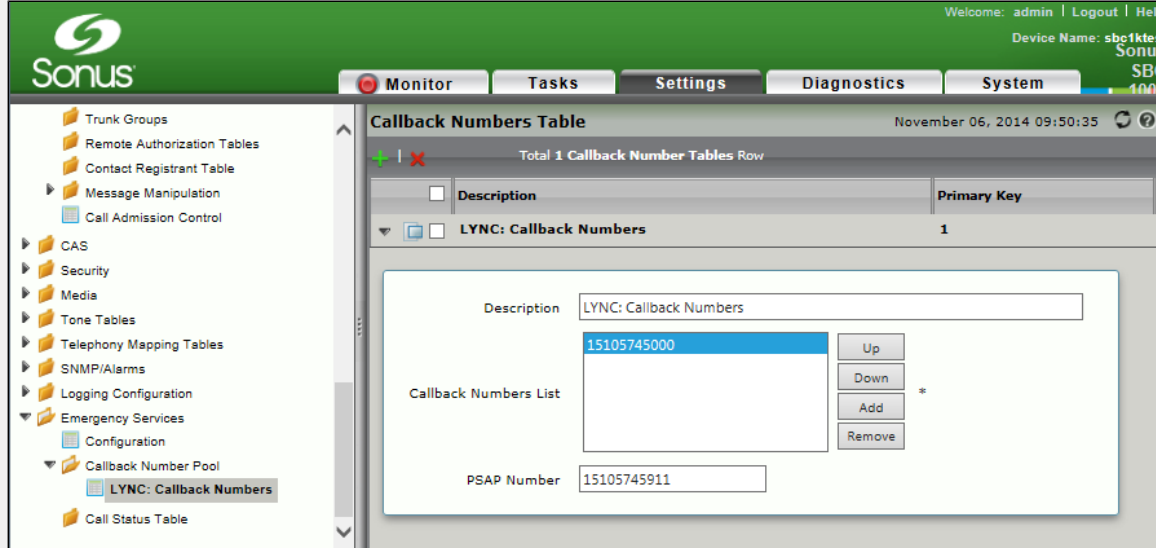
PIDF-LO Passthrough: Enable

Unknown Subtype Passthrough: Disable

Callback Number Pool

An entry is added to the Callback Numbers Table with the Emergency Callback number configured in the Lync Setup. For more information about Callback Numbers, see [Creating and Modifying Callback Number Lists](#).

Figure 5: Callback Numbers Table Entry



The screenshot displays the Sonus management console. The left sidebar shows a tree view of configuration options, with 'Emergency Services' > 'Callback Number Pool' > 'LYNC: Callback Numbers' selected. The main window shows the 'Callback Numbers Table' configuration page. At the top, it says 'Total 1 Callback Number Tables Row'. Below this is a table with one row: 'LYNC: Callback Numbers' with a 'Primary Key' of '1'. The configuration form below the table includes a 'Description' field with the value 'LYNC: Callback Numbers', a 'Callback Numbers List' field containing the number '15105745000', and a 'PSAP Number' field with the value '15105745911'. To the right of the list field are 'Up', 'Down', 'Add', and 'Remove' buttons. The top navigation bar includes 'Monitor', 'Tasks', 'Settings', 'Diagnostics', and 'System' tabs. The top right corner shows 'Welcome: admin | Logout | Help' and 'Device Name: sbc1ktes'.

Emergency Services Configuration

The Call Status Duration for Emergency Services is configured. For more information about Emergency Services Configuration, see [Configuring Emergency Services](#).

Figure 6: Configure Call Status Duration

