

# 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 'Easy Configuration' wizard in the Sonus web interface. The interface includes a navigation menu on the left with options like 'System', 'Application Solution Module', and 'SBC Easy Setup'. The main area shows 'Step 1' of the configuration process, titled 'Scenario Parameters'. The configuration fields are as follows:

Field	Value
Application	SIP Trunk <-> Microsoft UC
Scenario Description	
Telephone Country	United States
Emergency Services	E911/E112
Emergency Callback Number 1	15105745000
Emergency Callback Number 2	
PSAP Number	15105745911
<b>SIP Properties</b>	
SIP Sessions	60 [1..960]

Below the main configuration area, there are two sub-sections: 'SIP Trunk' and 'Microsoft UC'. The 'SIP Trunk' section has a 'Name' dropdown set to 'Generic SIP Trunk'. The 'Microsoft UC' section has a 'Version' dropdown set to 'Skype for Business'. At the bottom of the wizard, there are buttons for 'Cancel', 'Previous', 'Next', and 'Finish'.

## Configuration options created as a result of E911 Changes

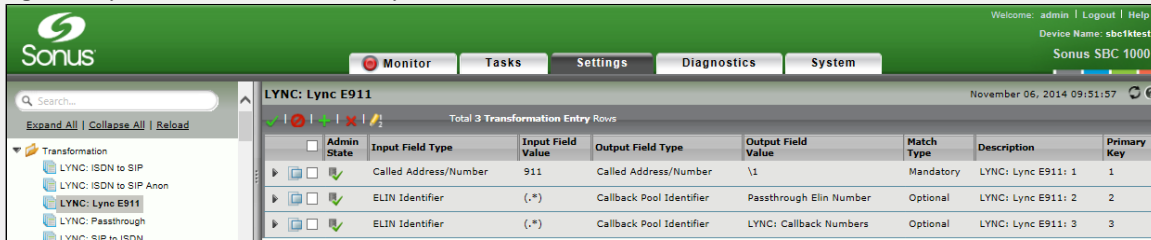
 The E911 Elin number from the "CompanyName" field configured in Lync location services is used as the authoritative Call Back number for outgoing E911 calls, and is always the preferred configuration. Specifically, it will take precedence over any Callback Number number configuration in Lync Setup. For 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



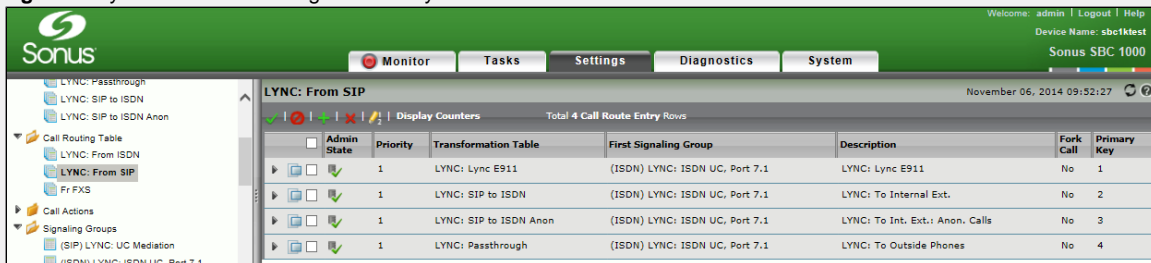
The screenshot shows the Sonus SBC 1000 management interface. The left sidebar shows a tree view with 'Transformation' expanded, and 'LYNC: Lync E911' selected. The main pane displays a table with 3 rows of transformation entries.

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, and 'LYNC: From SIP' selected. The main pane displays a table with 4 rows of call routing entries.

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 displays the Sonus SIP Profile configuration interface. At the top, there is a green header with the Sonus logo and navigation tabs for Monitor, Tasks, Settings, Diagnostics, and System. A left-hand navigation tree shows the following structure:

- Protocols
  - SIP
    - Local Registrars
    - Local / Pass-thru Auth Tables
    - SIP Profiles
      - LYNC: SIP Profile**
    - SIP Server Tables
      - LYNC: Mediation Servers
    - Trunk Groups
    - Remote Authorization Tables
    - Contact Registrant Table
    - Message Manipulation
    - Call Admission Control
  - CAS
  - Security
  - Media

The main content area is titled "SIP Profile Table" and shows a table with the following data:

Description	Primary Key
LYNC: SIP Profile	1

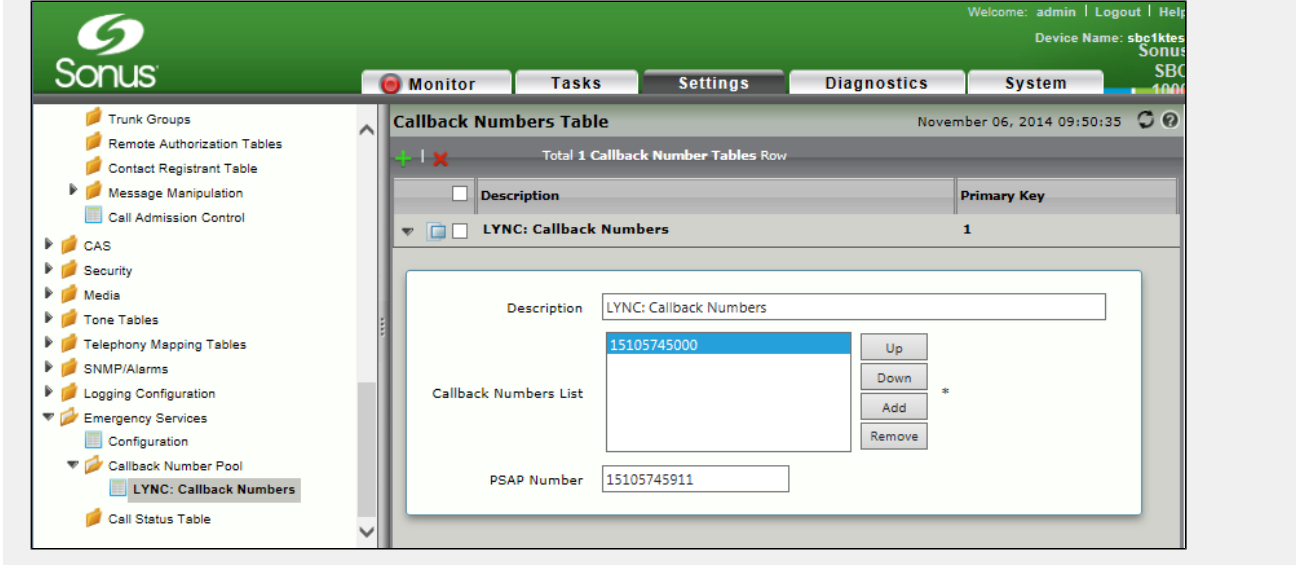
Below the table, the configuration details for the selected profile are shown:

- Description: LYNC: SIP Profile
- 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



## 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

