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Oracle SBC Configuration Template Outline
for AT&T-IPFlex Sip Trunk with Cisco CUCM

Technical Application Note

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The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

Contents

1 Intended Audience

This document is intended for use by Oracle Systems Engineers, third party Systems Integrators, Oracle Enterprise customers, partners and end users of the Oracle Enterprise Session Border Controller (SBC).

Please note, applying a configuration to the SBC via the Configuration Assistant will overwrite any existing configuration currently applied to the SBC. We highly recommend this only be used for initial setup of the SBC. This feature is not recommended to be used to make changes to existing configurations.

2 Introduction

When you first log on to the Oracle SBC, the system requires you to set the configuration parameters necessary for basic operation. To help you set the initial configuration with minimal effort, the Oracle SBC provides the Configuration Assistant. The Configuration Assistant, which you can run from the Web GUI or the Acme Command Line Interface (ACLI), asks you questions and uses your answers to set parameters for managing and securing call traffic. You can use the Configuration Assistant for the initial set up to make to the basic configuration. See "Configuration Assistant Operations" in the Web GUI User Guide and "Configuration Assistant Workflow and Checklist" in the ACLI Configuration Guide

3 Revision History

Version	Date Revised	Description of Changes
1.0	11/05/2021	Initial publication

4 Document Overview

This Oracle document describes how to use our Configuration Assistance feature as a quick and simple way to configure the Oracle SBC for integration with ATTIPFLEX SIP Trunk and Cisco Unified Communication Manager.

5 Validated Oracle Versions

This template can be used for Oracle SBC version SCZ840p5 onwards.

These software releases with the configuration listed below can run on any of the following products:

- AP 1100
- AP 3900
- AP 4600
- AP 6350
- AP 6300
- VME

6 Configuring the SBC using ATTIPFlexTrunkwithCUCM Template

The following outline assumes you have established initial access to the SBC via console and completed the following steps:

- ➢ Configured boot parameters for management access
- ➢ Setup Product
- ➢ Set Entitlements
- ➢ Configured HTTP-Server to establish access to SBC GUI
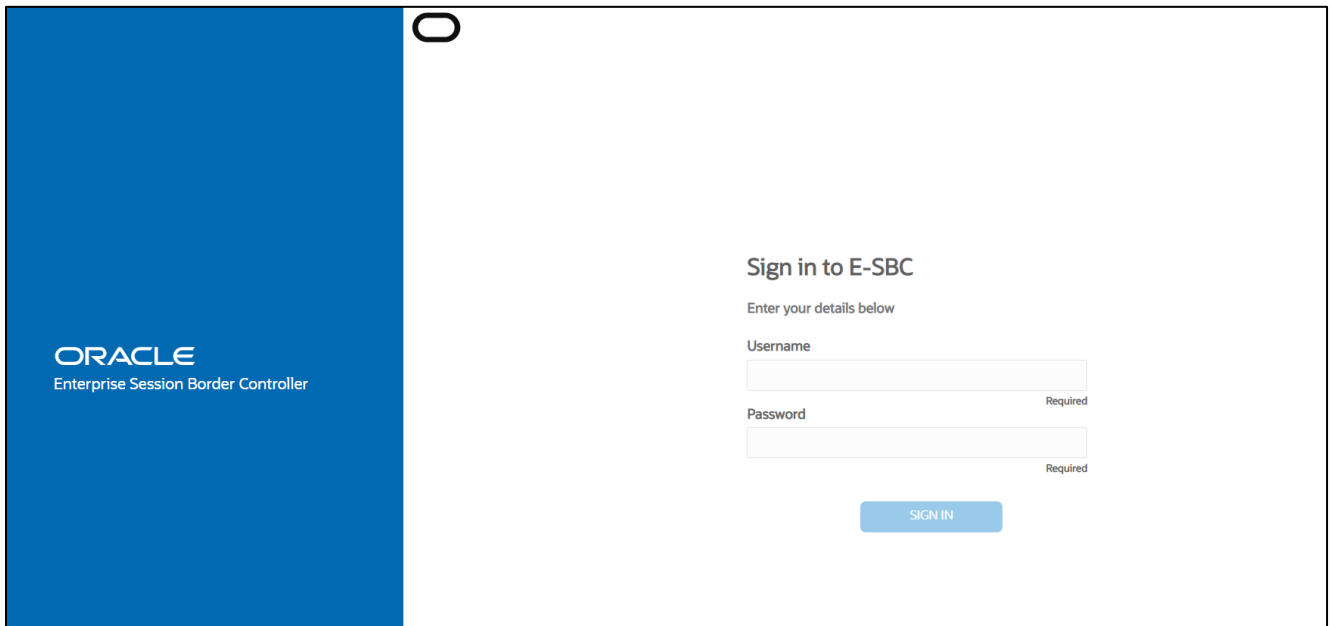
6.1 Uploading the Template.

There are two ways the Template can be uploaded on the Oracle SBC.

6.1.1 Through Oracle SBC WebGUI

The Oracle SBC WebGui can be accessed by entering the following in your web browser:

http(s)://<SBC Management IP>. The username and password are the same as that of the CLI.

You can Drag and Drop or Click on Drag and Drop to upload the Template ATTIPFlexTrunkwithCUCMxml.gz by clicking on the upload a template option on the SBC.

ORACLE
Enterprise Session Border Controller

Sign in to E-SBC

Enter your details below

Username

Required

Password

Required

SIGN IN
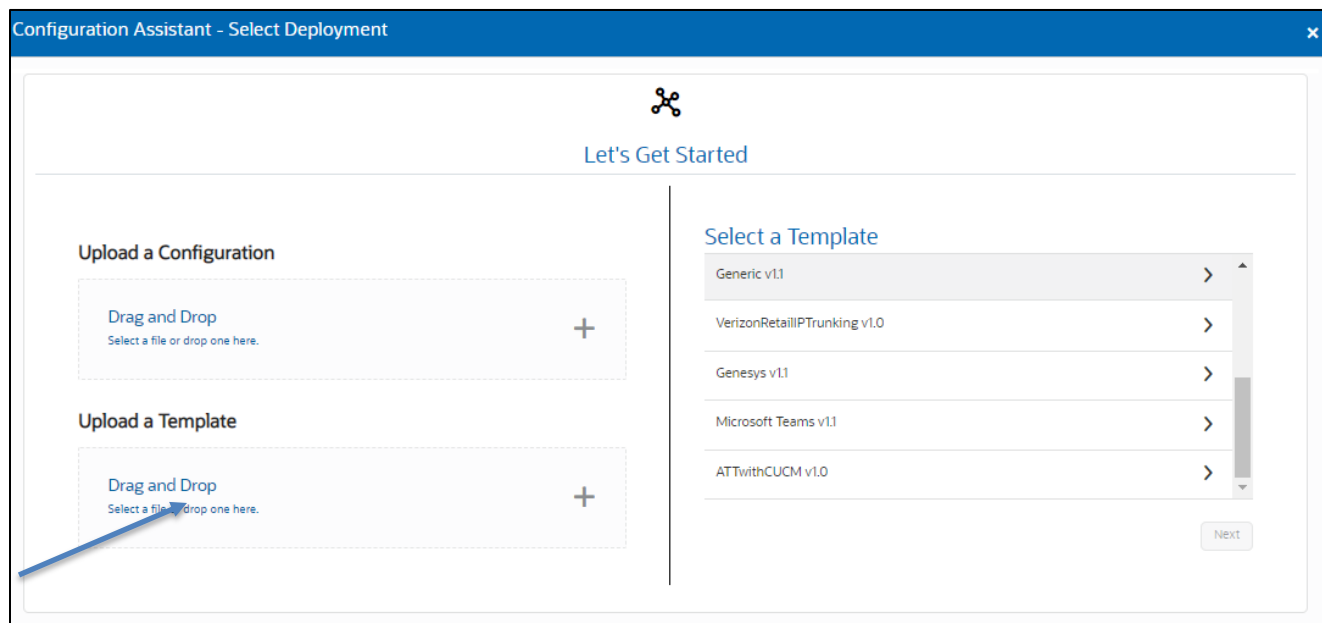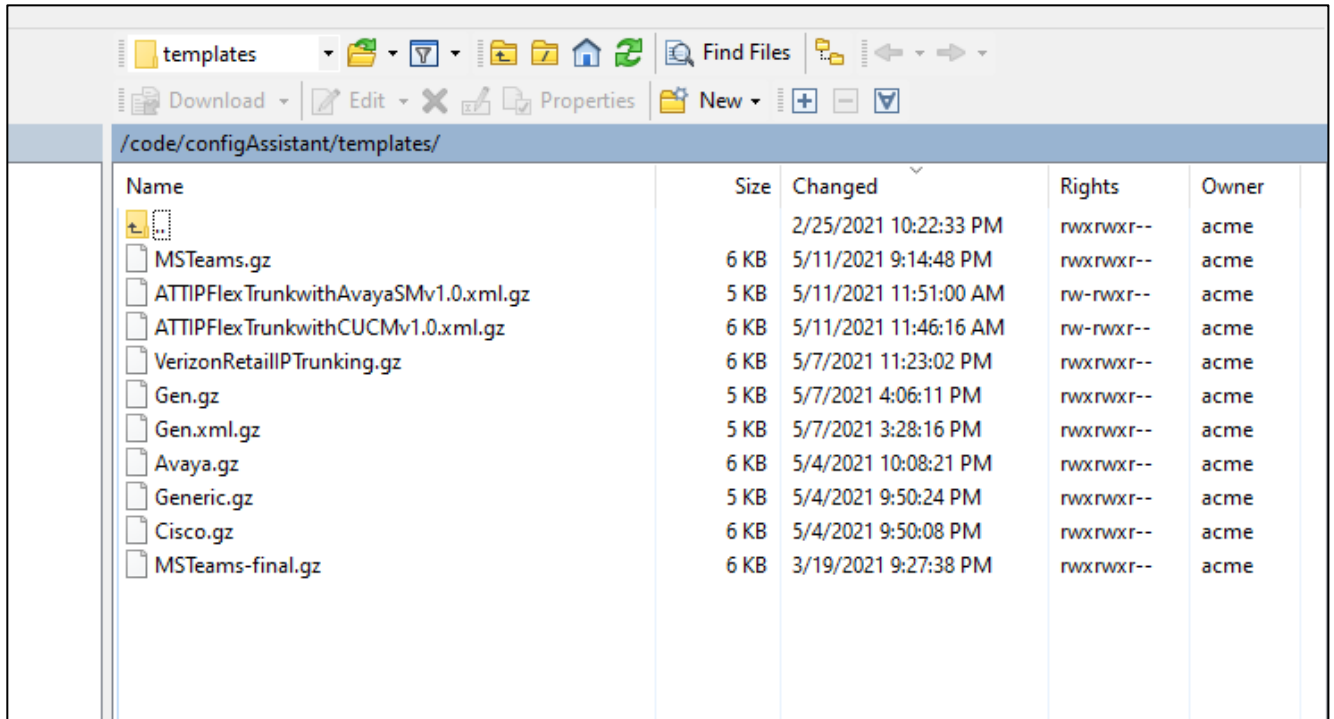
Once uploaded, the Template will start reflecting on the Right hand side of the Configuration Assistant Widget.
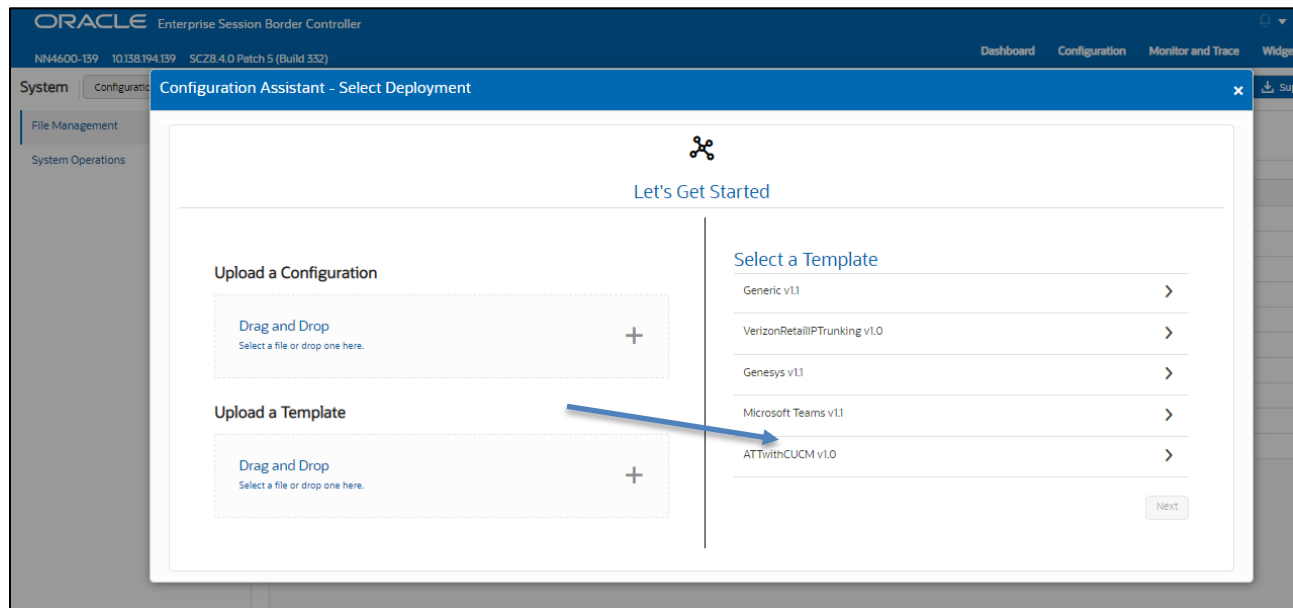
6.1.2 Through File Transfer Tools

You can also upload the Template onto the Oracle SBC through external file transfer tools such as Winscp of FileZilla.Upload the File into the /code/configAssistant/templates Directory of the SBC.

Below is a screenshot for an example upload through SFTP. Once uploaded, the Template will start reflecting on the Right hand side of the Configuration Assistant Widget on the Oracle SBC WebGUI.

Note: The template is version controlled and has a version number next to the template name. Please specify this version while reporting issues.

6.2 Template Configuration

Once you highlight ATTwithCUCMv1.0 template, you will see a pop up with the filename and description of the templates purpose:
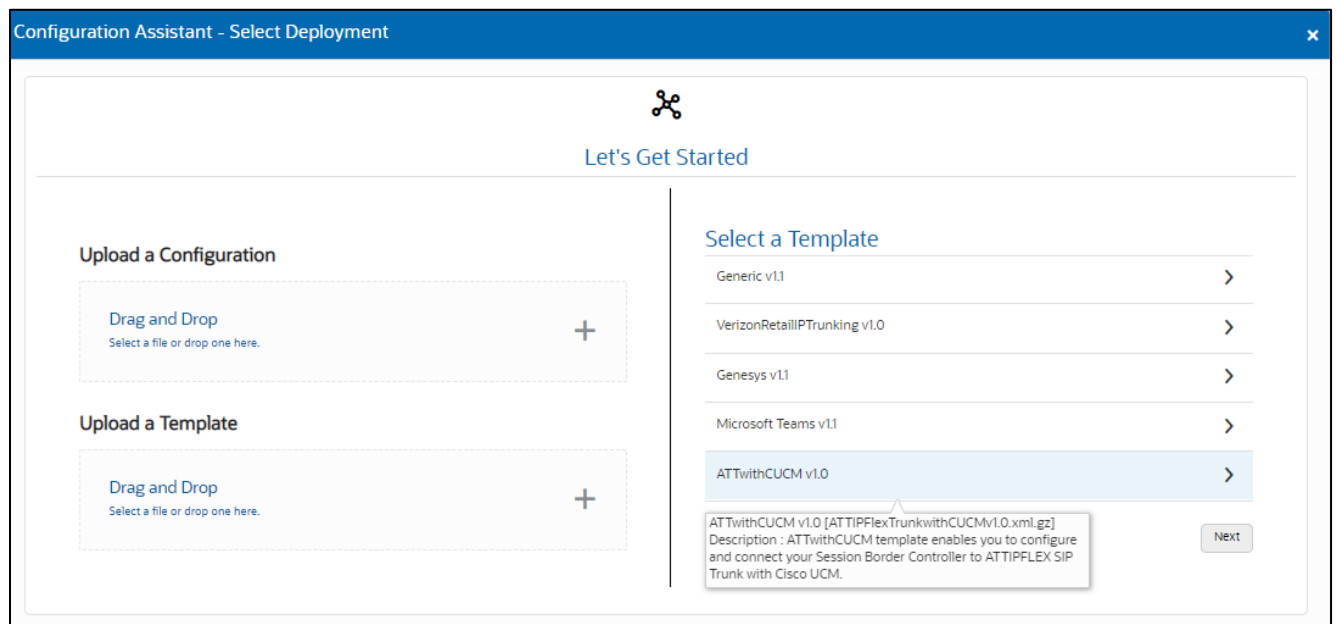
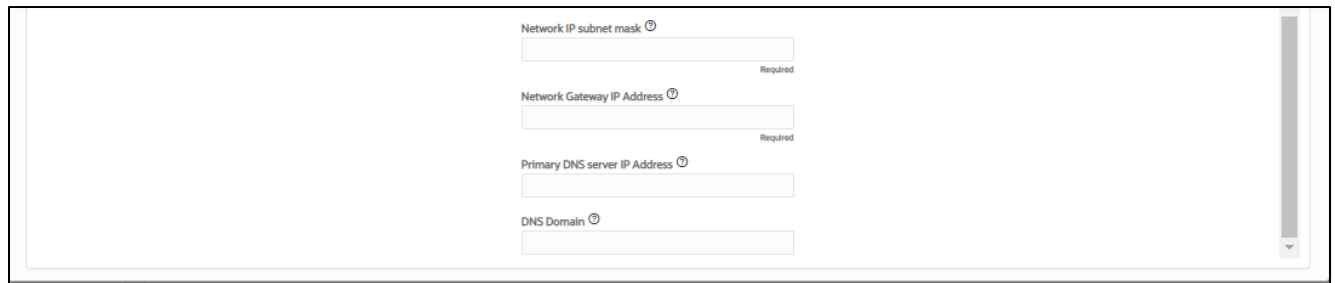A notes section appears with Prerequisites and a Warning. Read carefully before proceeding.

Configuration Assistant - Select Deployment ✕

Notes ✕

Warning:
- Proceeding with the Configuration Assistant results in erasing the existing configuration.

Important Information and Prerequisites:
- This Template creates a basic configuration required to iterwork the ATT IP FLex SIP Trunk and CUCM on the SBC.Some parameters are subjected to change depending upon each network setup.Please modify/configure them manually via the WebGUI/CLI in your system.
- This Template assumes a non TLS+SRTP Setup is used for the interworking and does not contain TLS SRTP related configuration parameters.
- Connect Port 0 and Port 1 of the Session Border Controller (SBC) to your network.
- If Transcoding is needed,Ensure that Transcoding resources are installed on your system (Hardware only).
- Configure at least one Transcoding core on your system (Virtual Machine Edition only).
- Enable the Advanced entitlement on the system.
- Set Session Capacity in the entitlement.
- Set the system time.

OK

- Click **OK**

6.2.1 Page 1 – Configure CUCM here.

You will arrive at the Page 1 of the Template where you will provide the information to connect to CUCM.

Configuration Assistant - Configure CUCM here ✕

‹ Back   ① Configure CUCM here   ② Configure ATTIPFLEX SIP Trunk Here   ③ Offerless SDP configuration   ④ Transcoding   ⑤ Additional Configuration   Skip ›

Let's configure the CUCM Session-Agent and the Network-Interface

Enter CUCM Session-Agent hostname here ⑦
_____
Required

Enter the CUCM Session-Agent IP Address here ⑦
_____

Enter the CUCM Session-Agent SIP port here ⑦
_____
Required
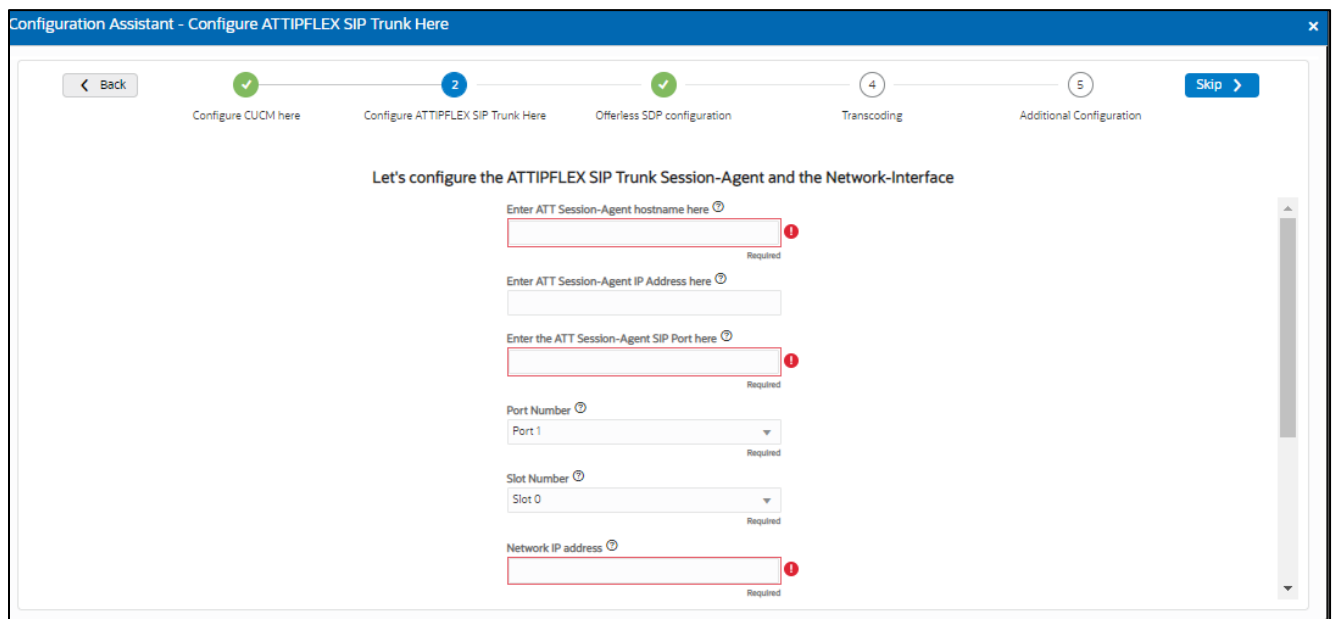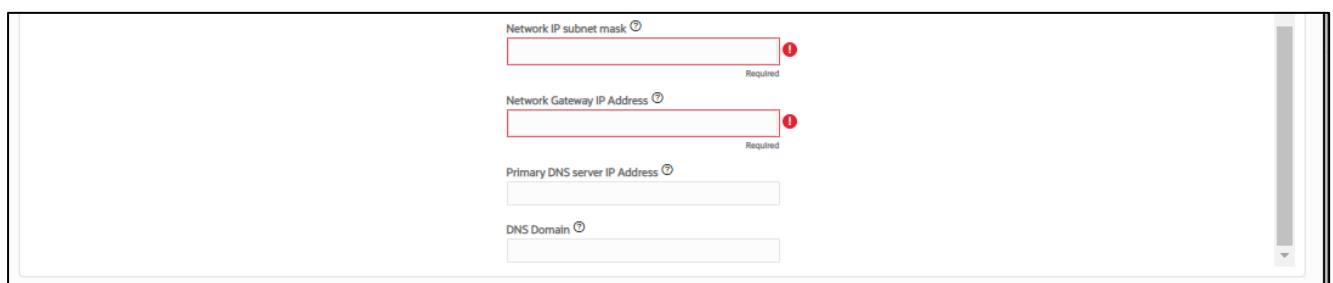
Port Number ⑦
Port 0 ▾
Required

Slot Number ⑦
Slot 0 ▾
Required

Network IP Address ⑦
_____
Required

Note: Once the mandatory parameters are filled in a page, a green tick appears on the top .There is also an option to skip a page and go to the Next Page if required.

6.2.2 Page 2 – Configure ATTIPFLEX SIP Trunk here.

After filling, the necessary details Click Next to go to Next page. You will configure AT&T IP Flex SIP Trunk side here.

6.2.3 Page 3- Offerless SDP Configuration.

Click Next, The System will Navigate to Offerless SDP configuration. You can enable or disable the configuration through the Yes/No Radio Button.

Note Click on the **?** to know more about the configuration parameters and their usage.

6.2.4 Page 4 - Transcoding

Click Next to Navigate to Transcoding Section of the Template.

- ➤ You can enable or disable the configuration by clicking Yes or No
- ➤ If you do not wish to configure transcoding click on Next.
- ➤ We have created default set of Codec Profiles on the SBC. If this does not suit your Network requirement you can skip the section and configure relevant Codec-Policy on the SBC manually through the WebGUI or the ACLI configuration.

Configuration Assistant - Transcoding

Configure CUCM here   Configure ATTIPFLEX SIP Trunk Here   Offerless SDP configuration   Transcoding   Additional Configuration

Let's configure transcoding

Do you want to enable transcoding features on the SBC ?   No ⬤ Yes ⑦

Do you want to select media codecs towards CUCM?   No ⬤ Yes ⑦

Select media codecs ⑦

G722 ✕

Required

Do you want to select media codecs towards ATTIPFLEX Trunk ?   No ⬤ Yes ⑦

Select media codecs ⑦

G729 ✕

6.2.5 Page 5 - Additional Configuration

Click Next and the Template will navigate to Additional Configuration Section.

➢ You can enable or disable the configuration by clicking Yes or No
➢ If you do not wish to configure transcoding click on Next

Configuration Assistant - Additional Configuration

Configure CUCM here   Configure ATTIPFLEX SIP Trunk Here   Offerless SDP configuration   Transcoding   Additional Configuration   Review

Let's configure Session Agent capabilities

Do you want to enable OPTIONS ping towards CUCM   No ◯ Yes ⑦

Do you want SBC to handle call transfer from CUCM ?   No ◯ Yes ⑦

Do you want to enable OPTIONS ping towards ATTIPFLEX Trunk   No ◯ Yes ⑦

Do you want SBC to handle call transfer from ATTIPFLEX Trunk ?   No ◯ Yes ⑦

Do you want to enable session translation towards ATTIPFLEX Trunk ?   No ◯ Yes ⑦

Do you want to enable session translation towards CUCM?   No ◯ Yes ⑦

6.2.6 Review

At the end of the template, you will notice in the top right, a "*Review*" tab. If all pages presented across the top are showing green, indicting there are no errors with the information entered, click on the "Review" tab:

 ➢ On the left side of the review contains the entries for each page. Each page has an "*Edit*" tab that can be used to make changes to the information entered on that specific page without having to go through the entire template again.

 ➢ On the right side of the review page, under the "*Generated Config*" tab is the ACLI output from the SBC. This is the complete configuration of the SBC based on the information entered throughout the template.

User can edit the entire configuration by clicking on the Edit button.

> ➢ The template provides you with the ability to "Download" the config by clicking the "*Download*" tab on the top right. Once you are ready Click Apply to apply the configuration onto the SBC.


Now you can click "*Confirm*" to confirm you want to apply the configuration to the SBC. The SBC will reboot. When SBC comes back up, the SBC will have a basic configuration in place for interoworking of Oracle SBC with ATTIPFLEX SIP Trunk and Cisco UCM.
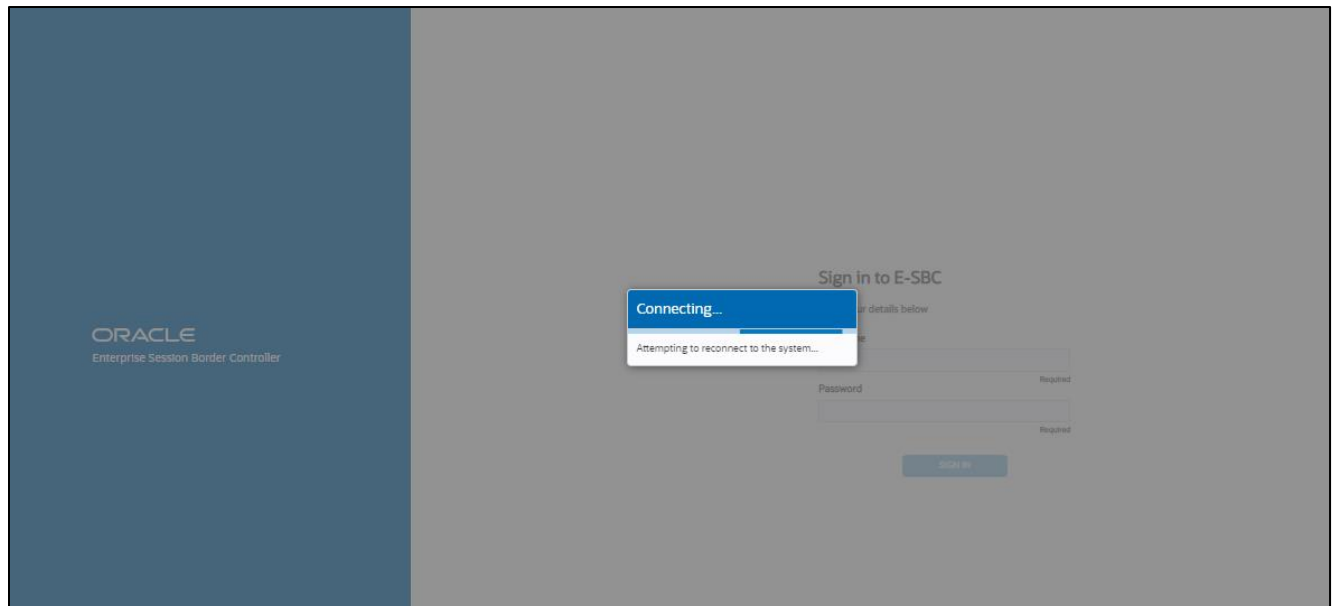
7 Configuration Assistant Access

Upon initial login, if the Configuration Assistant Template does not immediately appear on the screen, you can access by clicking on the "*SYSTEM*" tab, top right of your screen.
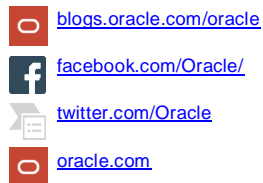
Next, click on the "*Configuration Assistant*" tab, top left.
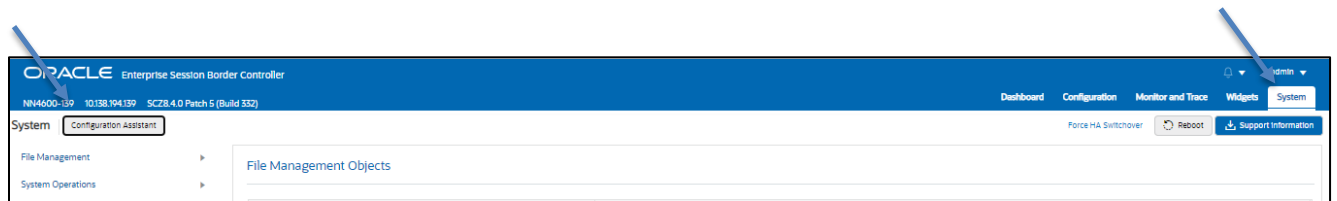
This allows end users to access the Configuration Assistance at any time through the SBC GUI.

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