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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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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.

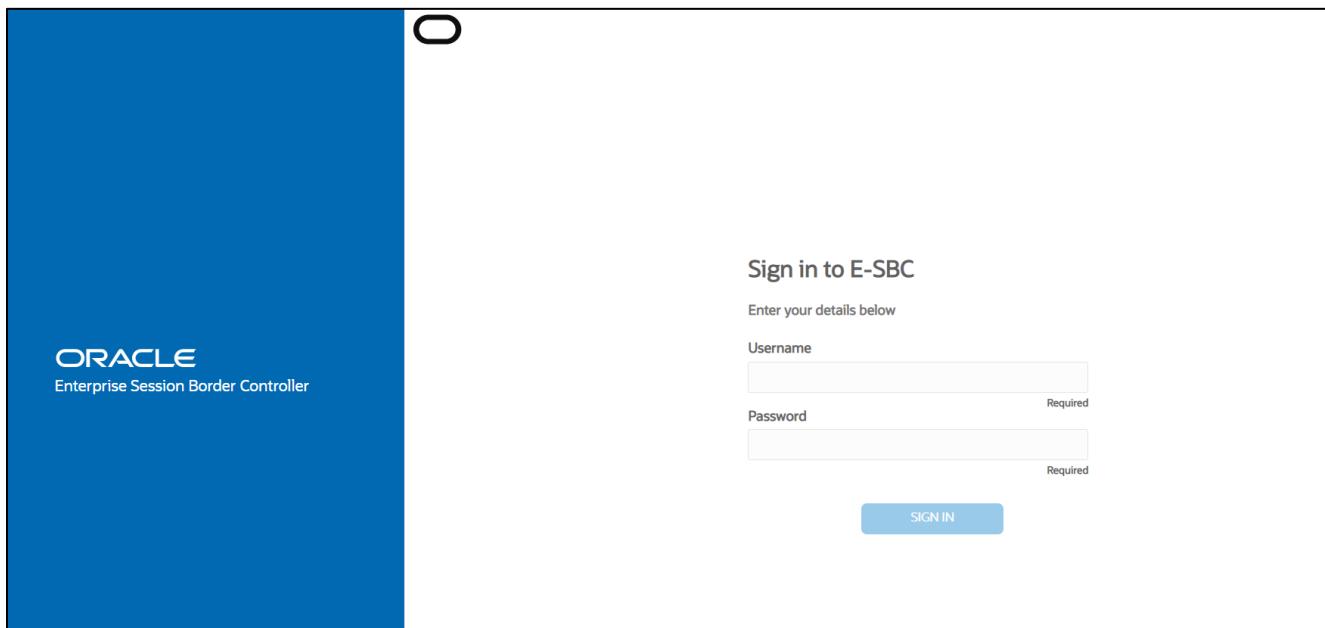
There are two ways the Template can be uploaded on the Oracle SBC.

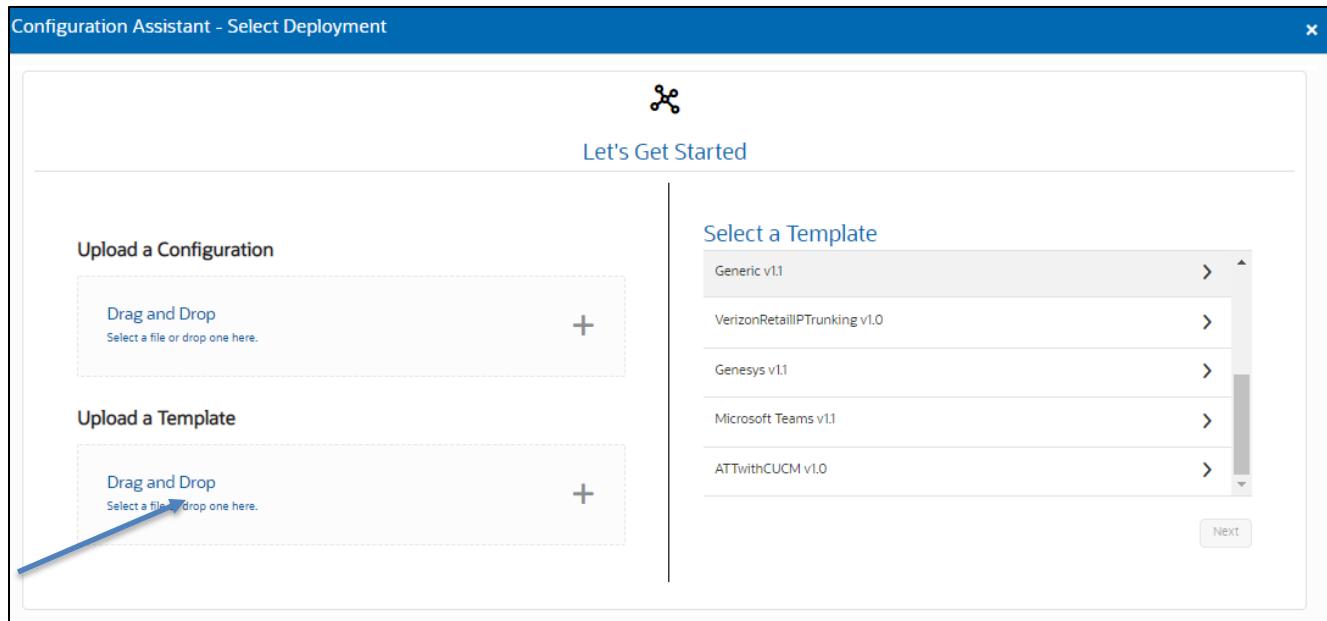
6.1.1 Through Oracle SBC WebGUI

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

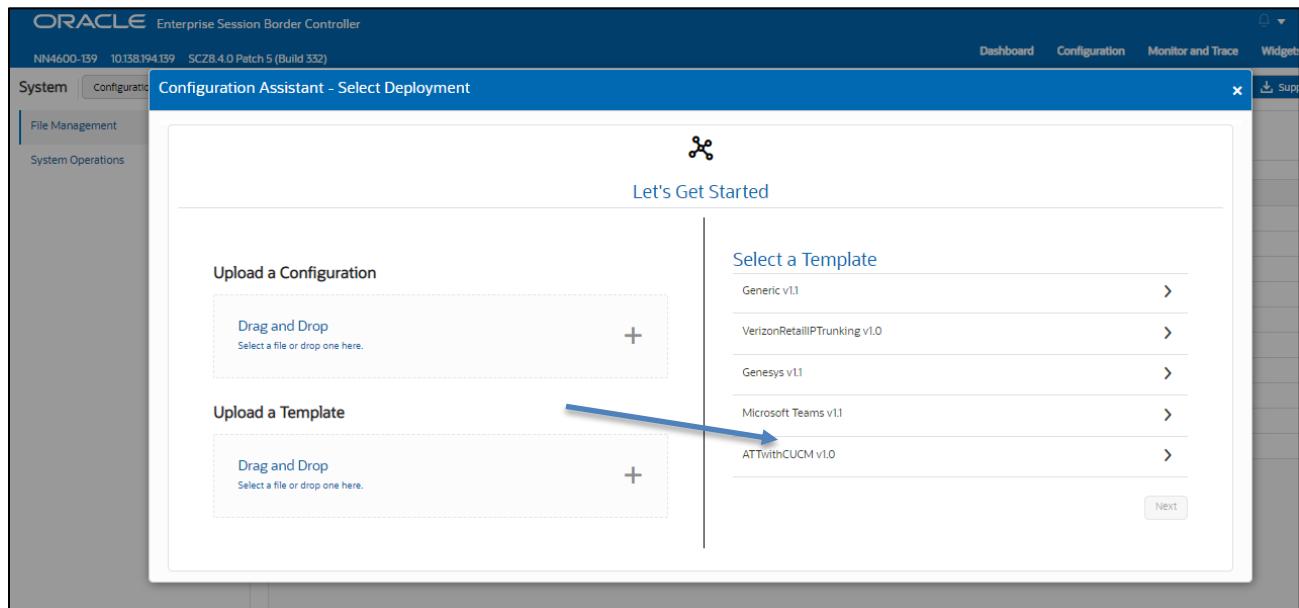
[http\(s\)://<SBC Management IP>](http://<SBC Management IP>). The username and password are the same as that of the CLI.

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.





Once uploaded, the Template will start reflecting on the Right hand side of the Configuration Assistant Widget.

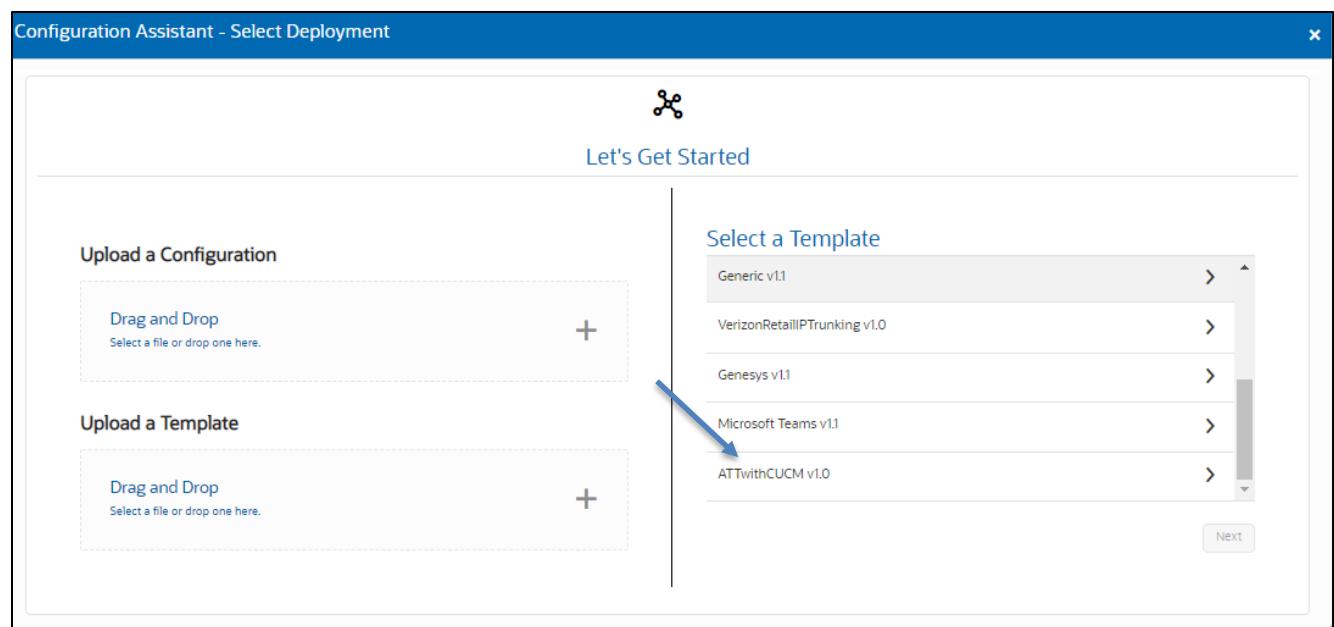


6.1.2 Through File Transfer Tools

You can also upload the Template onto the Oracle SBC through external file transfer tools such as Winscp or 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.

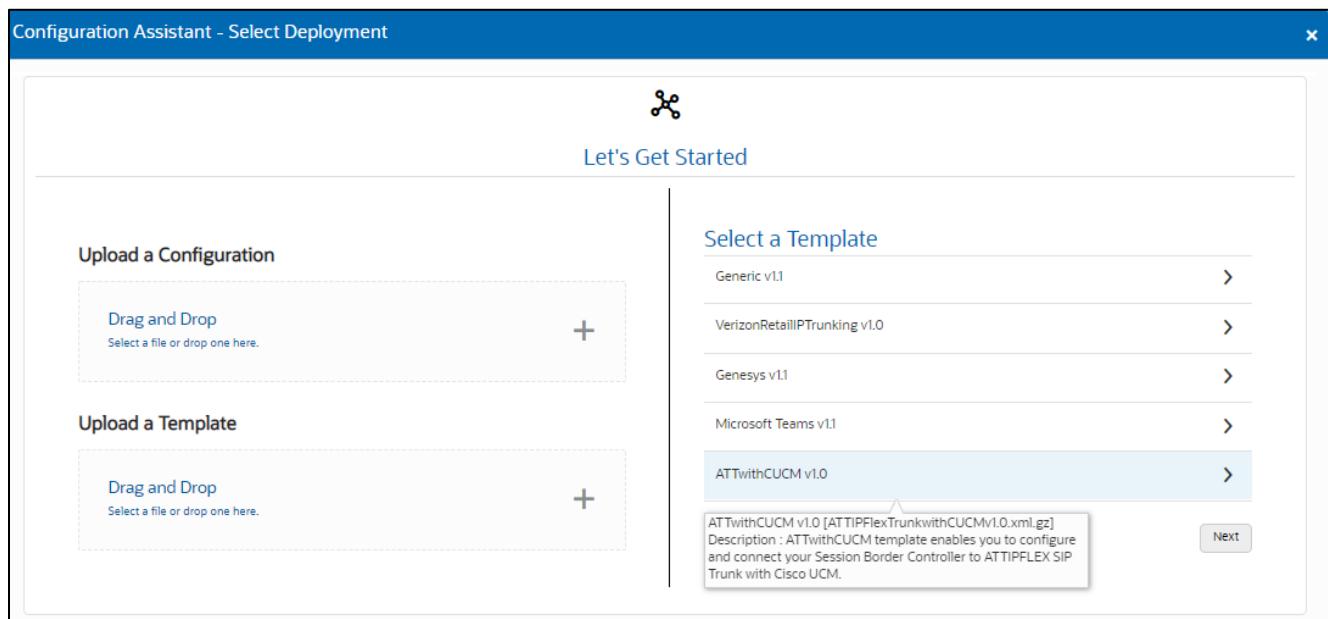
Name	Size	Changed	Rights	Owner
..		2/25/2021 10:22:33 PM	rw-rw-r--	acme
MSTeams.gz	6 KB	5/11/2021 9:14:48 PM	rw-rw-r--	acme
ATTIPFlexTrunkwithAvayaSMv1.0.xml.gz	5 KB	5/11/2021 11:51:00 AM	rw-rw-r--	acme
ATTIPFlexTrunkwithCUCMv1.0.xml.gz	6 KB	5/11/2021 11:46:16 AM	rw-rw-r--	acme
VerizonRetailIPTrunking.gz	6 KB	5/7/2021 11:23:02 PM	rw-rw-r--	acme
Gen.gz	5 KB	5/7/2021 4:06:11 PM	rw-rw-r--	acme
Gen.xml.gz	5 KB	5/7/2021 3:28:16 PM	rw-rw-r--	acme
Avaya.gz	6 KB	5/4/2021 10:08:21 PM	rw-rw-r--	acme
Generic.gz	5 KB	5/4/2021 9:50:24 PM	rw-rw-r--	acme
Cisco.gz	6 KB	5/4/2021 9:50:08 PM	rw-rw-r--	acme
MSTeams-final.gz	6 KB	3/19/2021 9:27:38 PM	rw-rw-r--	acme



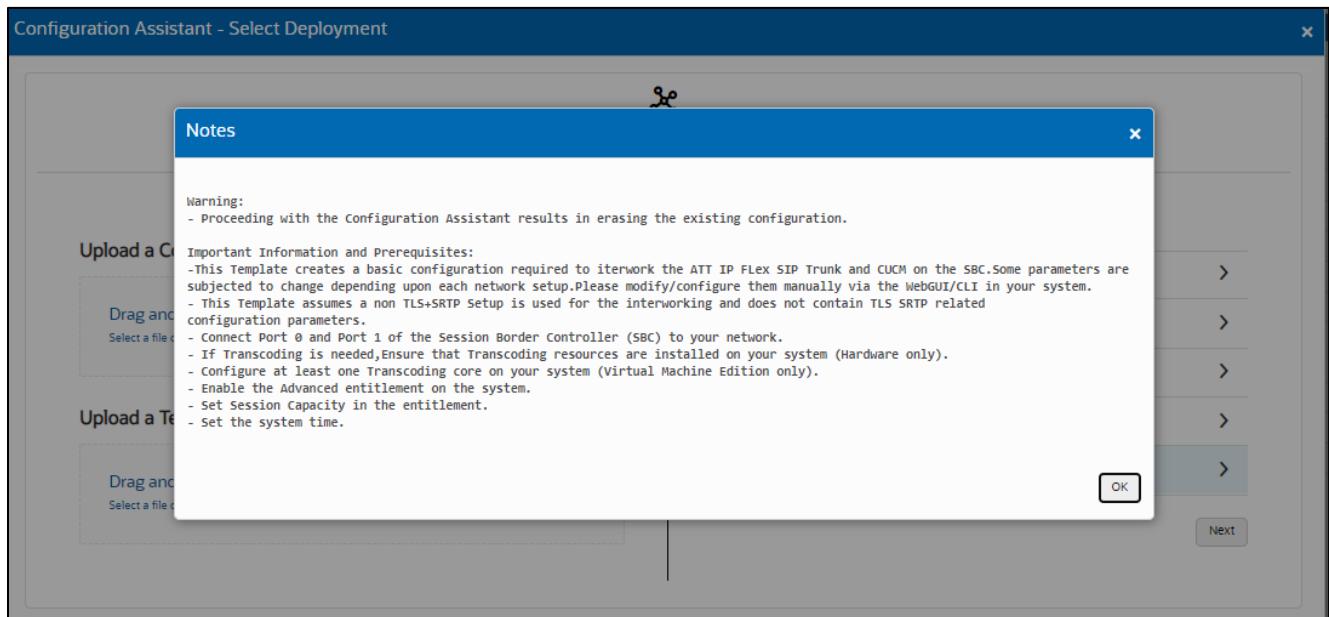
Note: The template is version controlled and has a version number next to the template name. Please specify this version while reporting issues.

6.2 Template Configuration

Once you highlight ATTwithCUCMv1.0 template, you will see a pop up with the filename and description of the template purpose:



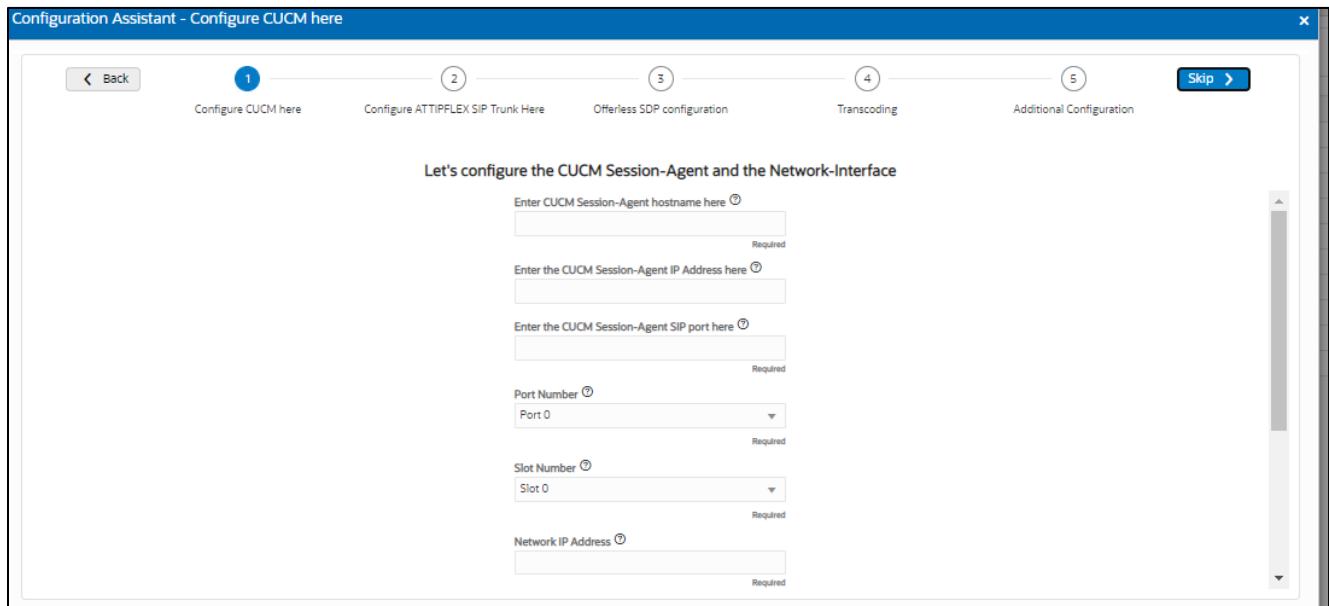
A notes section appears with Prerequisites and a Warning. Read carefully before proceeding.



- 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.





Network IP subnet mask ⓘ

Required

Network Gateway IP Address ⓘ

Required

Primary DNS server IP Address ⓘ

DNS Domain ⓘ

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.

Configuration Assistant - Configure ATTIPFLEX SIP Trunk Here

2

Configure CUOM here Configure ATTIPFLEX SIP Trunk Here Offerless SDP configuration 4 5 Skip >

Let's configure the ATTIPFLEX SIP Trunk Session-Agent and the Network-Interface

Enter ATT Session-Agent hostname here ⓘ

Required

Enter ATT Session-Agent IP Address here ⓘ

Enter the ATT Session-Agent SIP Port here ⓘ

Required

Port Number ⓘ

Port 1

Required

Slot Number ⓘ

Slot 0

Required

Network IP address ⓘ

Required

Network IP subnet mask ⓘ

Required

Network Gateway IP Address ⓘ

Required

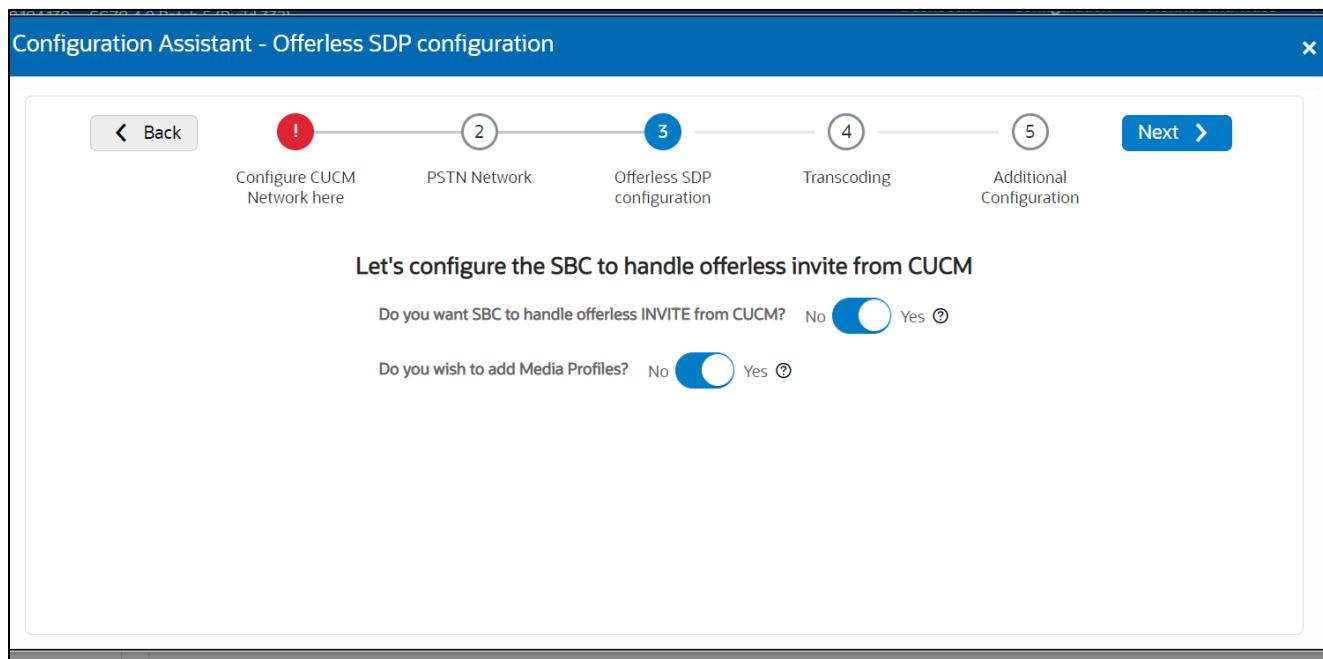
Primary DNS server IP Address ⓘ

DNS Domain ⓘ

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

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

Select media codecs Required

Select media codecs

Next >

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

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

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

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

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

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

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, indicating 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.

Configuration Assistant - Summary

Configure CUCM here

Enter CUCM Session-Agent hostname here	Enter the CUCM Session-Agent IP Address here
10.232.50.60	
Enter the CUCM Session-Agent SIP port here	Port Number
5060	Port 0
Slot Number	Network IP Address
Slot 1	10.232.50.87
Network IP subnet mask	Network Gateway IP Address
255.255.0.0	10.232.50.1
Primary DNS server IP Address	DNS Domain

Configure ATTIPFLEX SIP Trunk Here

Enter ATT Session-Agent hostname here	Enter ATT Session-Agent IP Address here
172.18.0.124	
Enter the ATT Session-Agent SIP Port here	Port Number
5060	Port 1
Slot Number	Network IP address
Slot 0	172.18.0.127
Network IP subnet mask	Network Gateway IP Address

Generated Configuration

```
codec-policy
  name          ATTCodecPolicy
  allow-codecs  *
  add-codecs-on-egress  G729
codec-policy
  name          CiscoCodecPolicy
  allow-codecs  *
  add-codecs-on-egress  G722
http-server
  name          webServerInstance
local-policy
  from-address *
  to-address   *
  source-realm *
  policy-attribute
    next-hop   10.232.50.60
    realm      Cisco-Core
  *
  from-address *
  to-address   *
  source-realm *
  policy-attribute
    next-hop   172.18.0.124
    realm      ATTRealm
  *
media-manager
  options
    anonymous-sdp  unique-sdp-id
    enabled
network-interface
  name          ATTInterface
  ip-address   172.18.0.127
  netmask      255.255.0.0
  gateway     172.18.0.1
network-interface
  name          CUCHInterface
  ip-address   10.232.50.87
  netmask      255.255.0.0
```

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

Configuration Assistant - Summary

Configure CUCM here

Enter CUCM Session-Agent hostname here	Enter the CUCM Session-Agent IP Address here
10.232.50.60	
Enter the CUCM Session-Agent SIP port here	Port Number
5060	Port 0
Slot Number	Network IP Address
Slot 1	10.232.50.87
Network IP subnet mask	Network Gateway IP Address
255.255.0.0	10.232.50.1
Primary DNS server IP Address	DNS Domain

Configure ATTIPFLEX SIP Trunk Here

Enter ATT Session-Agent hostname here	Enter ATT Session-Agent IP Address here
172.18.0.124	
Enter the ATT Session-Agent SIP Port here	Port Number
5060	Port 1
Slot Number	Network IP address
Slot 0	172.18.0.127
Network IP subnet mask	Network Gateway IP Address

Generated Configuration

```

codec-policy
  name          ATTCodecPolicy
  allow-codecs  *
  add-codecs-on-egress
G729

codec-policy
  name          CiscoCodecPolicy
  allow-codecs  *
  add-codecs-on-egress
G722

http-server
  name          webServerInstance
local-policy
  name          *
  from-address *
  to-address   *
  source-realm *
  policy-attribute
  next-hop     *
  realm        Cisco-Core
  10.232.50.68
Cisco-Core

local-policy
  from-address *
  to-address   *
  source-realm *
  policy-attribute
  next-hop     *
  realm        *
Cisco-Core
  172.18.0.124
ATTRealm

media-manager
  options
    anonymous-sdp
unique-sdp-id
enabled

network-interface
  name          ATTInterface
  ip-address   172.18.0.127
  netmask      255.255.0.0
  gateway     172.18.0.1
  name          CUCMInterface
  ip-address   10.232.50.87
  netmask      see see a a

```

- 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.

Configuration Assistant - Summary

Configure CUCM here

Enter CUCM Session-Agent hostname here	Enter the CUCM Session-Agent IP Address here
10.232.50.60	
Enter the CUCM Session-Agent SIP port here	Port Number
5060	Port 0
Slot Number	Network IP Address
Slot 1	10.232.50.87
Network IP subnet mask	Network Gateway IP Address
255.255.0.0	10.232.50.1
Primary DNS server IP Address	DNS Domain

Configure ATTIPFLEX SIP Trunk Here

Enter ATT Session-Agent hostname here	Enter ATT Session-Agent IP Address here
172.18.0.124	
Enter the ATT Session-Agent SIP Port here	Port Number
5060	Port 1
Slot Number	Network IP address
Slot 0	172.18.0.127
Network IP subnet mask	Network Gateway IP Address

Generated Configuration

```

codec-policy
  name          ATTCodecPolicy
  allow-codecs  *
  add-codecs-on-egress
G729

codec-policy
  name          CiscoCodecPolicy
  allow-codecs  *
  add-codecs-on-egress
G722

http-server
  name          webServerInstance
local-policy
  name          *
  from-address *
  to-address   *
  source-realm *
  policy-attribute
  next-hop     *
  realm        Cisco-Core
  10.232.50.68
Cisco-Core

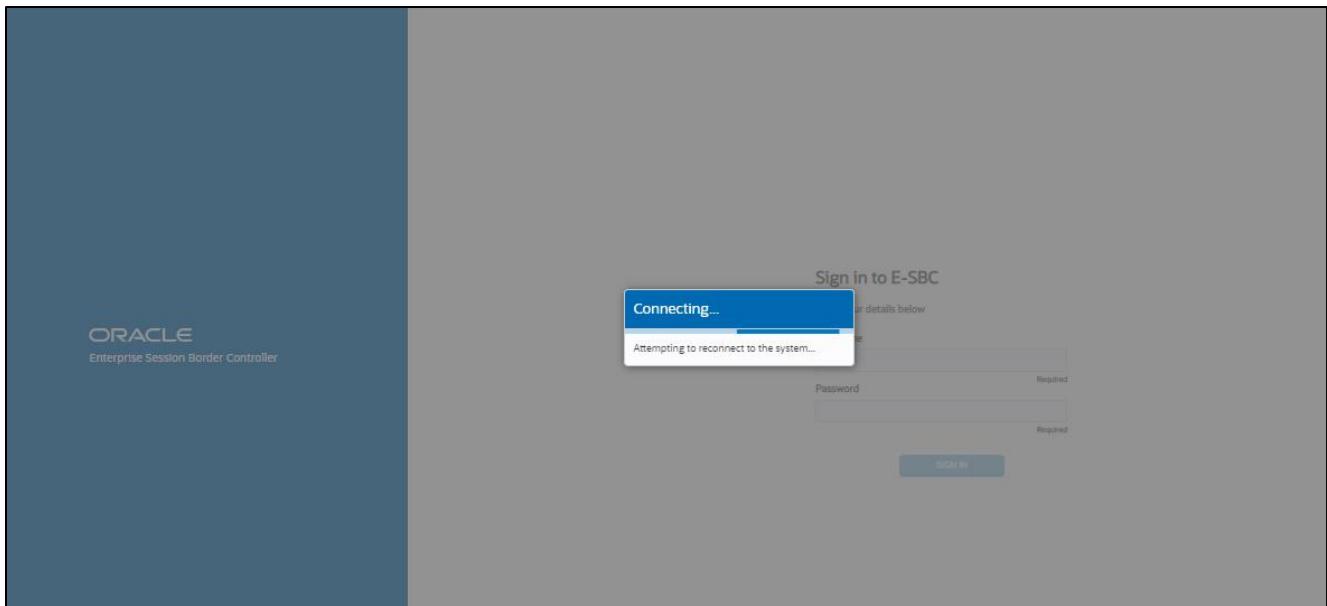
local-policy
  from-address *
  to-address   *
  source-realm *
  policy-attribute
  next-hop     *
  realm        *
Cisco-Core
  172.18.0.124
ATTRealm

media-manager
  options
    anonymous-sdp
unique-sdp-id
enabled

network-interface
  name          ATTInterface
  ip-address   172.18.0.127
  netmask      255.255.0.0
  gateway     172.18.0.1
  name          CUCMInterface
  ip-address   10.232.50.87
  netmask      see see a a

```

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 interworking 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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