



ORACLE

Oracle SBC Configuration Assistant Template Package Outline

Technical Application Note

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COMMUNICATIONS



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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).

2 Introduction

When you first log on to the E-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 E-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 as well as for subsequent changes that you want 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

Date	Document Revision	Template Version	Comments
12-13-2021	1.1	1.0	Initial Revision

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 multiple IP-PBX, UCAAS/CCAAS platforms, and Sip Trunk providers.

5 Requirements

- SBC Release 840p7 or later
- SBC Release 900p2 or later
- Template Package associated with this Document

6 Initial GUI Access

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

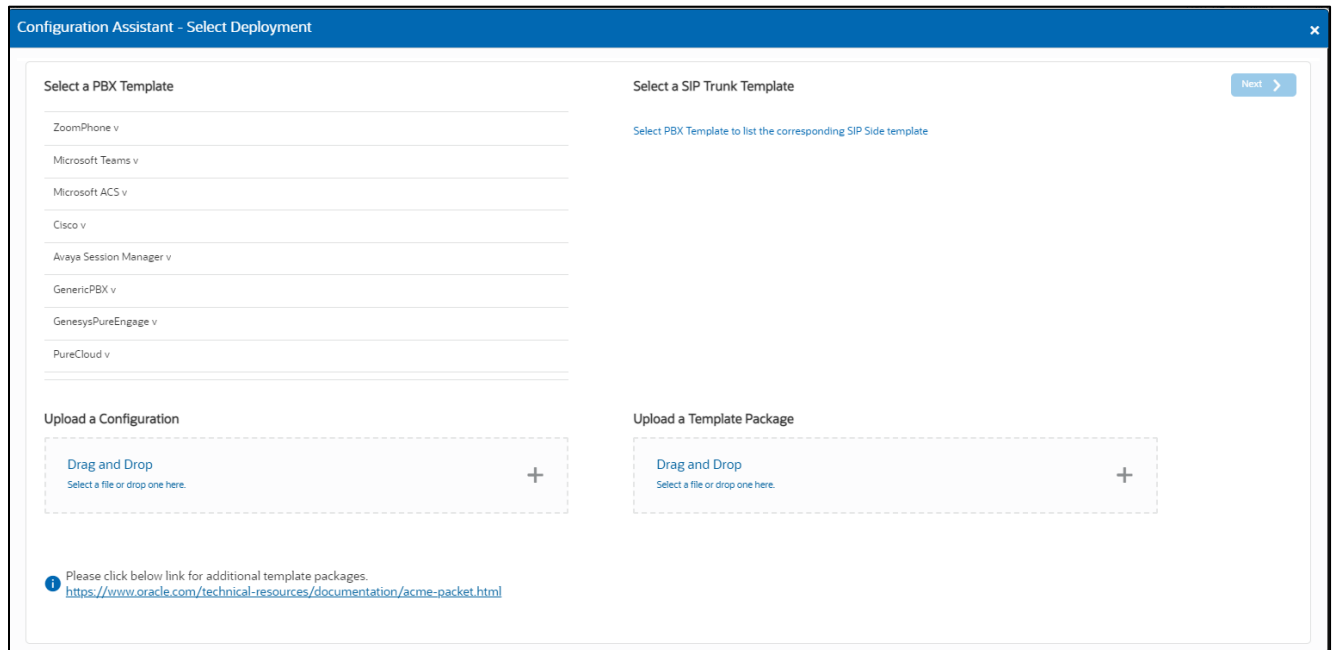
http(s)://<SBC Management IP>.

The username and password are the same as that of the CLI.

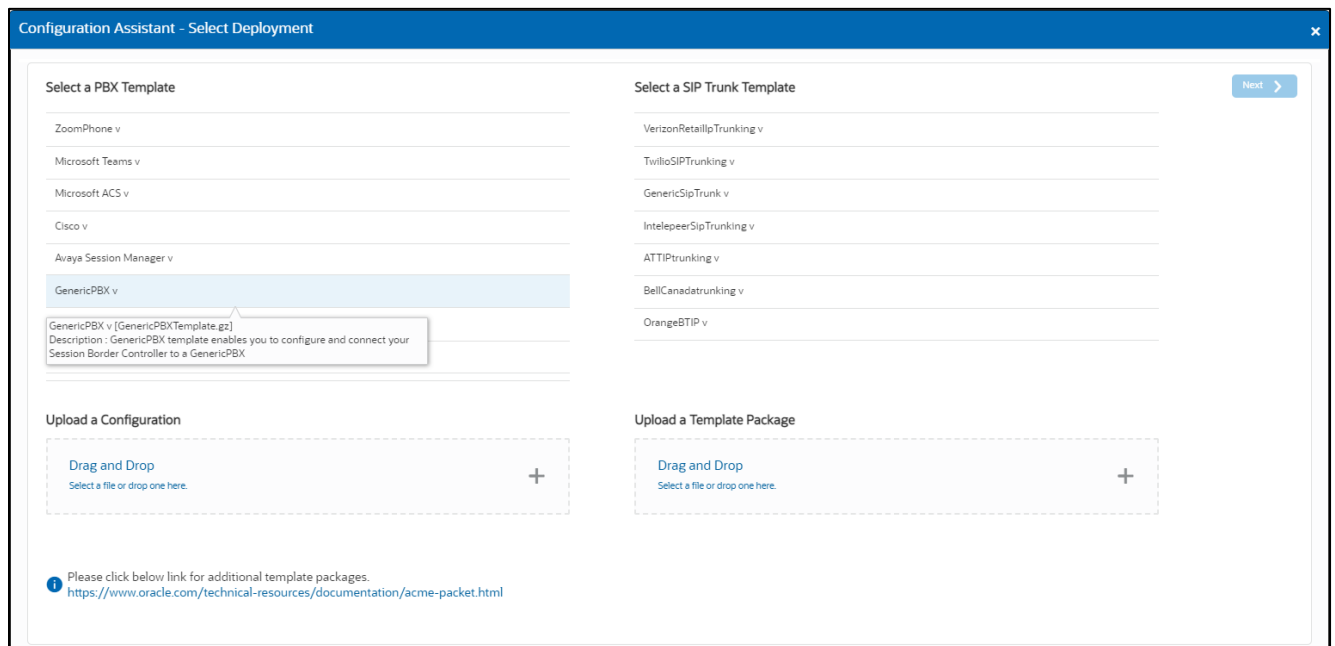
7 Configuration Assistant with New SBC

7.1 Preloaded Template Package

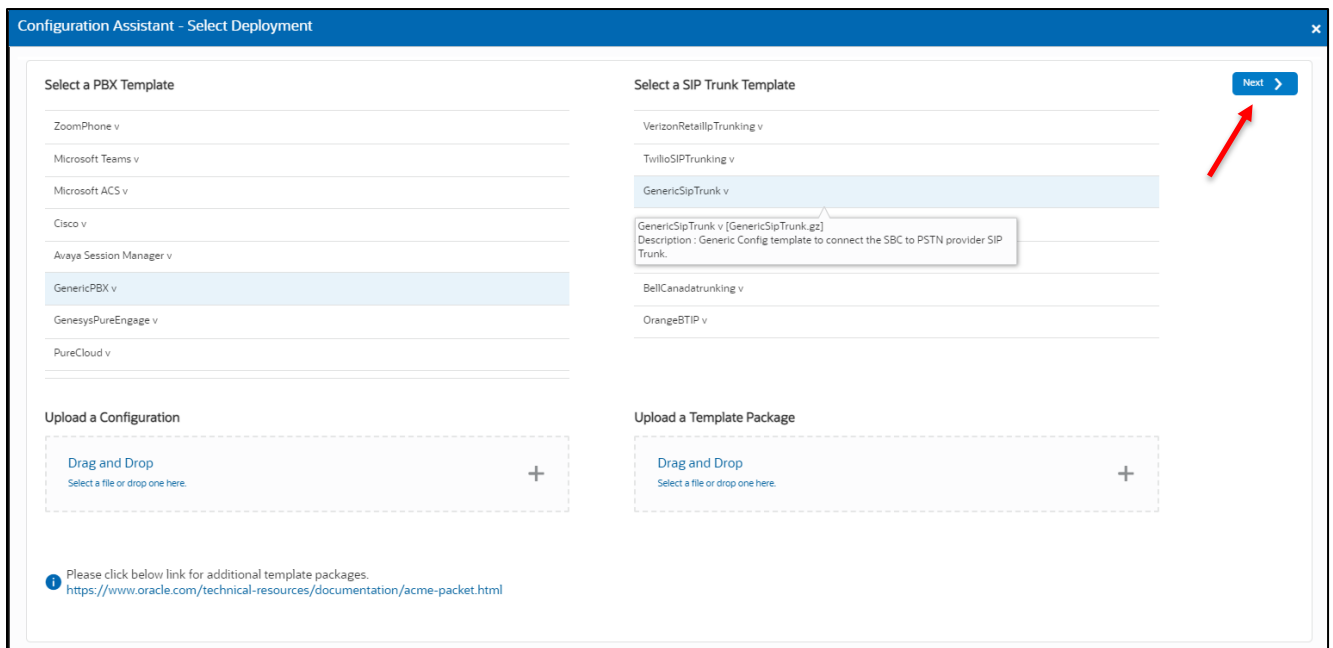
If there is no configuration on the SBC, the configuration assistant will show immediately upon login to the SBC GUI



On the left side of the screen, you will see a list of PBX templates that come preloaded with your Oracle SBC software release. On the right side, a column for SIP Trunk templates. Once you select a PBX template, a list of compatible SIP Trunk templates will appear.

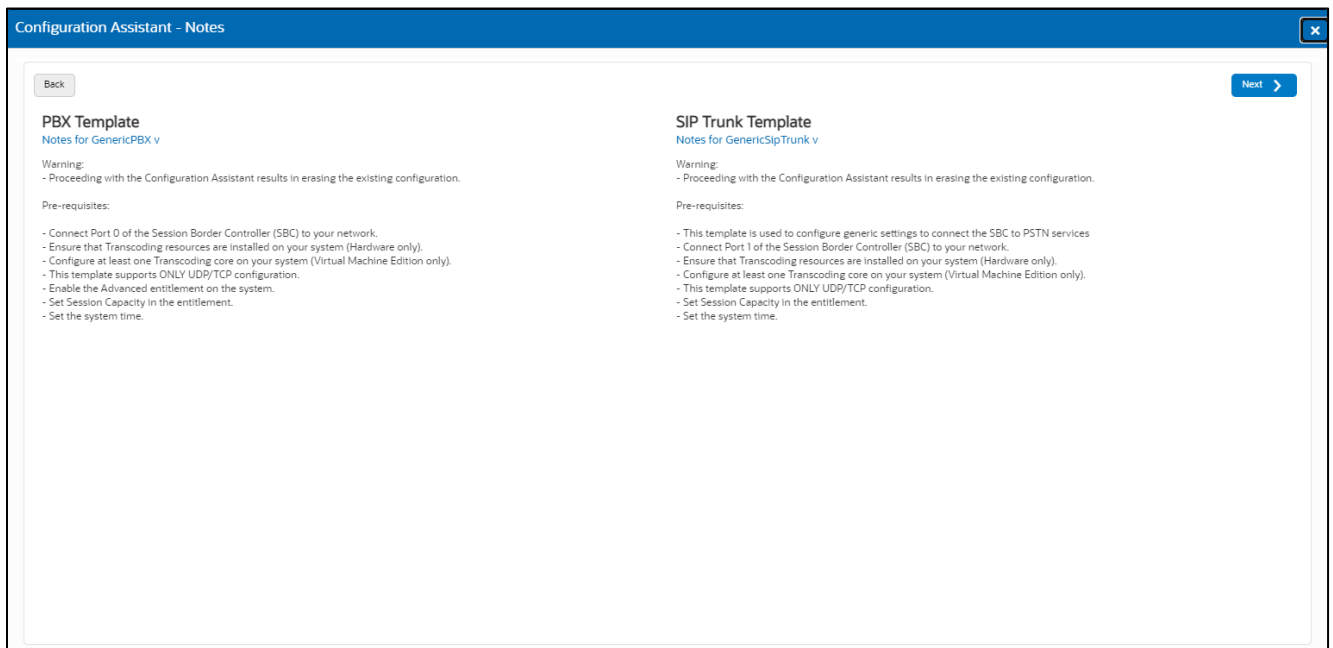


Once both a PBX template and a SIP Trunk template have been selected, click Next which is located in the top right of the screen.



Note: Hover your pointer over each template on the deployment page for a text box with a brief description of that template as shown above

This brings you to the Notes page. Pay close attention to the information here, as this is a list of warnings, pre-requisites and recommendations:



Clicking “Next” on the Notes page triggers the configuration assistant to do a system check. This ensures that all of the system requirements for the platform and sip trunk you have selected have been met before proceeding to configuration pages. If they have not been met, you will be greeted by a page providing the opportunity to setup entitlements, add license keys, etc...before moving on to the configuration. Once all requirements for your selected templates have been satisfied, you can proceed to the configuration pages.

Configuration Assistant - GenericPBX Network

Let's configure the interface that communicates with your GenericPBX

Realm Name Required

Port Number Required

Slot Number Required

Network IP Address Required

Network IP subnet mask Required

Network Gateway IP Address Required

Primary DNS server IP Address Required

Follow the instructions on each page. Any field that is labeled required must contain an entry.

Once you have entered all information in required fields on all pages, select the option to Review in the top right of the screen:

Configuration Assistant - Additional Configuration

Let's configure Session Agent Capabilities

Do you want to enable OPTIONS towards PSTN? No Yes

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

Do you want to enable session translation on toward your PSTN provider? No Yes

The left side of the review page contains all of the entries added on each page, and allows for editing each page individually if necessary.

The right side displays the entire configuration created and when applicable, will also have a CSR tab that contains a certificate that can be signed by a CA authority.

Configuration Assistant - Summary

GenericPBX Network [Edit]

Realm Name	Port Number
Generic	Port 0
Slot Number	Network IP Address
Slot 0	2.2.2.2
Network IP subnet mask	Network Gateway IP Address
255.255.255.0	2.2.2.1
Primary DNS server IP Address	DNS Domain
2.2.2.3	generic.com

GenericPBX Session Agent [Edit]

GenericPBX Session Agent hostname	GenericPBX Session Agent IP Address
192.168.3.5	192.168.3.5
GenericPBX Session Agent Port	Do you have a second Hostname/IP address for your PBX Sip Signaling?
5060	enabled
GenericPBX Session Agent hostname	GenericPBX Session Agent IP Address
192.168.3.6	192.168.3.6
GenericPBX Session Agent Port	Do you want to enable OPTIONS ping towards your PBX?
5060	enabled
Do you want SBC to handle call transfer from your PBX	Do you want to enable session translation towards your PBX?
enabled	disabled

Configuration [Copy]

```

http-server
  name webServerInstance
local-policy
  from-address *
  to-address *
  source-realm Generic
  policy-attribute SAG:PBXGrp
  next-hop realm
  realm pstn.com
local-policy
  from-address *
  to-address *
  source-realm pstn.com
  policy-attribute SAG:PBXGrp
  next-hop realm
  realm Generic
media-manager
network-interface
  name PBXInterface
  ip-address 2.2.2.2
  netmask 255.255.255.0
  gateway 2.2.2.1
  dns-ip-primary 2.2.2.3
  dns-domain generic.com
network-interface
  name PSTNInterface
  ip-address 3.3.3.2
  netmask 255.255.255.0
  gateway 3.3.3.1
  dns-ip-primary 3.3.3.3
  dns-domain siptrunk.com
phy-interface
  
```

Once all the information has been reviewed and accepted, click Apply.

The SBC now presents the Epilogue if applicable: (The Epilogue example is from another Template)

Configuration Assistant - Epilogue

Perform the following actions when the system comes up to complete the deployment :: [Confirm]

Actions to be performed for Microsoft Teams v

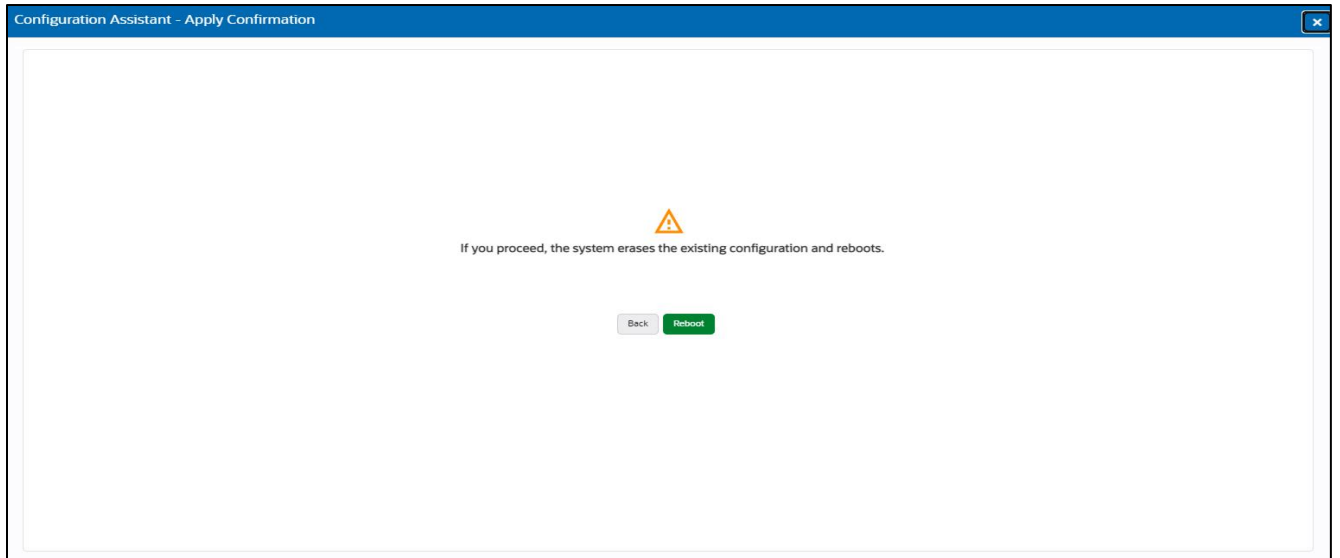
Security:

- If you opted to generate a CSR during the SBC certificate provisioning step, please make sure to import the signed certificate after the reboot.
- If you are going to use the SBC to interwork between SRTP and RTP, please make sure you assign the media security policy named "RTP" to the realm with non secure media.

Actions to be performed for GenericSipTrunk v

No more actions required for this template

Confirm, and then select reboot to apply the new configuration to the SBC.



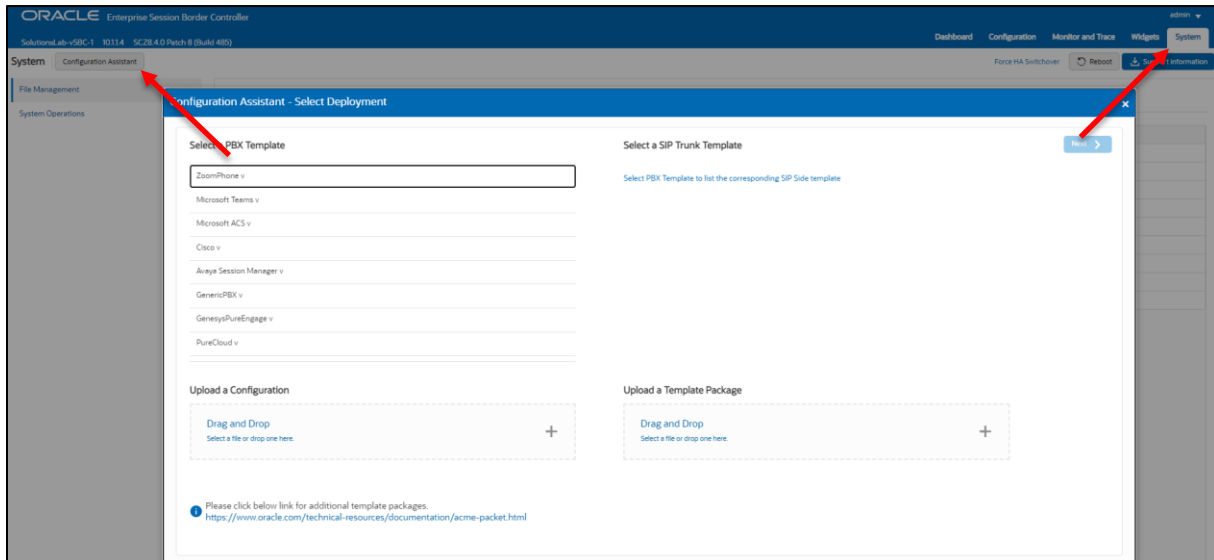
When the SBC comes back online after reboot, the new configuration created by the Configuration Assistant will be applied.

7.2 Configuration Assistant with Existing SBC

7.3 Preloaded Configuration Templates

If you have an existing Oracle SBC you can still access the Configuration Assistant through the Oracle SBC GUI.

GUI Path: System/Configuration Assistant



From here, the steps outlined in this guide for a [New SBC Deployment](#) can be followed to change the configuration of the Oracle SBC.

8 Configuration Assistant with Oracle SBC ACLI

The Oracle SBC Configuration Assistant is also available to service providers and can be accessed through the SBC's ACLI.

You must first establish either a console connection or SSH session with the Oracle SBC.

Next, access "enable" mode.

At the # (hash) prompt run the command

run configuration-assistant

```
SolutionsLab-vSBC-1# run configuration-assistant
-----
Thank you for purchasing the Oracle Enterprise Session Border Controller.
The following Configuration Assistant guides you through the configuration
on
and reboots the system.
-----

Available deployments
 1. ZoomPhone v
 2. Microsoft Teams v
 3. Microsoft ACS v
 4. Cisco v
 5. Avaya Session Manager v
 6. GenericPBX v
 7. GenesysPureEngage v
 8. PureCloud v
 9. Five9 v
10. Pexip v

Enter 1 to choose Pexip v.
Enter 1?' to get description of Pexip v.

Please select a deployment (Enter 'q' to exit): █
```

You will be presented with a list of available PBX templates to choose from.

Enter the number corresponding with a template and press enter:

Next, the Oracle SBC presents a list of compatible Sip Trunk templates. Again, enter the number corresponding with a template and press enter.

```
SolutionsLab-vSBC-1# run configuration-assistant

-----
Thank you for purchasing the Oracle Enterprise Session Border Controller.
The following Configuration Assistant guides you through the initial configuration
and reboots the system.
-----

Available deployments
 1. ZoomPhone v
 2. Microsoft Teams v
 3. Microsoft ACS v
 4. Cisco v
 5. Avaya Session Manager v
 6. GenericPBX v
 7. GenesysPureEngage v
 8. PureCloud v
 9. Five9 v
10. Pexip v

Enter 1 to choose Pexip v.
Enter 1?' to get description of Pexip v.

Please select a deployment (Enter 'q' to exit): 6
 1. VerizonRetailIpTrunking v
 2. TwilioSIPTrunking v
 3. GenericSipTrunk v
 4. IntelepeerSipTrunking v
 5. ATTIPtrunking v
 6. BellCanadatrunking v
 7. OrangeBTIP v

Enter 1 to choose OrangeBTIP v.
Enter 1?' to get description of OrangeBTIP v.

Please select a deployment (Enter 'q' to exit): █
```

After selecting both templates, pay close attention to the information that appears, as this is a list of warnings, pre-requisites and recommendations. This also triggers the configuration assistant to do a system check. This ensures that all of the system requirements for the platform and sip trunk you have selected have been met before proceeding to configuration. If they have not been met, you will be greeted with the opportunity to setup entitlements, add license keys, etc...before moving on to the configuration. Once all requirements for your selected templates have been satisfied, you can proceed to the configuration options.

```

Enter 1 to choose OrangeBTIP v.
Enter 1?' to get description of OrangeBTIP v.

Please select a deployment (Enter 'q' to exit): 3

'-' = Previous; '?' = Help; '.' = Clear; 'q' = Exit

The * indicates a required field.

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

Pre-requisites:

- Connect Port 0 of the Session Border Controller (SBC) to your network.
- Ensure that Transcoding resources are installed on your system (Hardware only).
- Configure at least one Transcoding core on your system (Virtual Machine Edition only).
- This template supports ONLY UDP/TCP configuration.
- Enable the Advanced entitlement on the system.
- Set Session Capacity in the entitlement.
- Set the system time.

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

Pre-requisites:

- This template is used to configure generic settings to connect the SBC to PSTN services
- Connect Port 1 of the Session Border Controller (SBC) to your network.
- Ensure that Transcoding resources are installed on your system (Hardware only).
- Configure at least one Transcoding core on your system (Virtual Machine Edition only).
- This template supports ONLY UDP/TCP configuration.
- Set Session Capacity in the entitlement.
- Set the system time.

GenericPBX Network
Realm Name* : █

```

Follow the instructions for each field presented in the Configuration section.

Once you have entered all of the required information in each field, the Configuration Assistant displays a summary view of the information entered.

```

-- Summary view -----
GenericPBX Network
  1: Realm Name*           : Generic
  2: Port Number*         : Port 0
  3: Slot Number*        : Slot 0
  4: Network IP Address*  : 2.2.2.2
  5: Network IP subnet mask* : 255.255.255.0
  6: Network Gateway IP Address* : 2.2.2.1
  7: Primary DNS server IP Address : 2.2.2.3
  8: DNS Domain           : generic.com

GenericPBX Session Agent
  9: GenericPBX Session Agent hostname* : 2.2.2.4
 10: GenericPBX Session Agent IP Address : 2.2.2.4
 11: GenericPBX Session Agent Port*     : 5060
 12: Do you have a second Hostname/IP address for
     your PBX Sip Signaling?             : no
 13: Do you want to enable OPTIONS ping towards
     your PBX                             : no
 14: Do you want SBC to handle call transfer from
     your PBX                             : no
 15: Do you want to enable session translation
     towards your PBX?                   : no

Transcoding
 16: Do you want to enable transcoding on the
     SBC?                                 : no

PSTN Network
 17: Realm Name*           : pstn
 18: Port Number*         : Port 0
 19: Slot Number*        : Slot 1
 20: Network IP address*  : 3.3.3.2
 21: Network IP subnet mask* : 255.255.255.0
 22: Network Gateway IP Address* : 3.3.3.1

```

At the bottom of the summary view, the following options available to proceed:

```
Enter 1 - 32 to modify, 'd' to display summary, 's' to save, 'q' to exit, 'g' to display generated-config. [s]:
```

To complete the process, and apply the configuration, enter S for save, at which point the SBC will ask you to reboot.

```
Enter 1 - 32 to modify, 'd' to display summary, 's' to save, 'q' to exit, 'g' to display generated-config. [s]: s
Saving changes and quitting configuration assistant. System will prompt for a reboot. Are you sure? [y/n]?: y
----Configuration saved.----
-----
WARNING: you are about to reboot this ESBC!
```

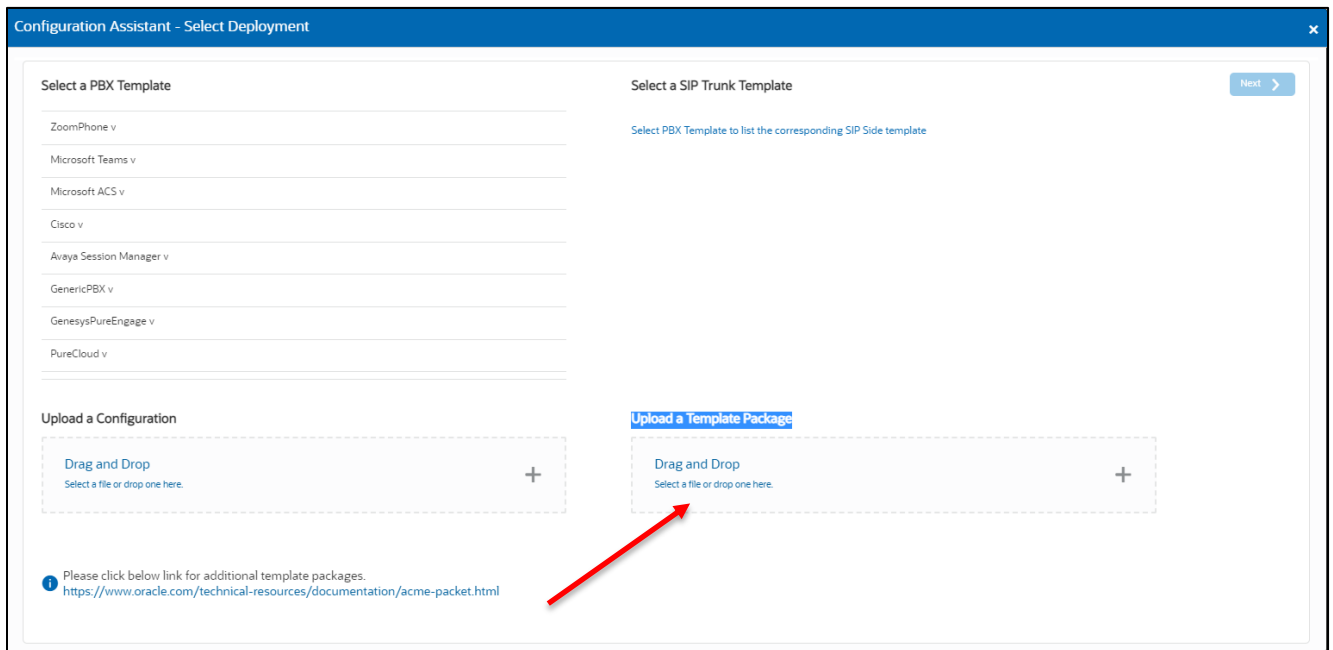
When the SBC comes back online after reboot, the new configuration created by the Configuration Assistant will be applied.

9 New Template Packages

Oracle Communications will continue to add new pbx and sip trunk templates as they are created and tested. The latest template packages are available for download in the [Configuration Assistant](#) section of the [Oracle Solutions Documentation](#) page.

Once a new package is downloaded, you can upload it to the Oracle SBC by dragging and dropping the tar.gz file to the “Upload a Template Package” section of the GUI.

For service providers, the package can be transferred to the Oracle SBC via SFTP. The file must be placed in the /code/configAssistant directory.



10 Available Templates

The current template package available for download contains the following pbx and sip trunk templates:

PBX Templates	SIP Trunk Templates
Zoom Phone	Verizon Retail IP Trunking
Microsoft Teams Phone System Direct Routing	Twilio Elastic Sip Trunking
Microsoft Azure Communications Services	Generic Sip Trunk
Cisco Unified Communications Manager	Intelepeer Sip Trunking
Avaya Aura	ATT IPFlex SIP Trunk
Generic PBX	Bell Canada Sip Trunking
Genesys Pure Engage	Orange Telecom BTIP
Genesys Pure Cloud	
Five9 Cloud Contact Center	
Pexip Enterprise Communications	
Google Voice SipLink	
Cisco Webex Calling	

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Integrated Cloud Applications & Platform Services

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