



Provisioning with VSPT Wizards

Wizards are utilities included in the Cisco Voice Services Provisioning Tool (VSPT) to help a user rapidly create a new deployment by providing a graphical user interface (GUI) for provisioning specific solutions. A wizard leads the user through the steps of provisioning the Cisco Media Gateway Controller (MGC and external components).

This chapter describes wizards and provides an example of using a wizard to configure a solution. It includes the following sections:

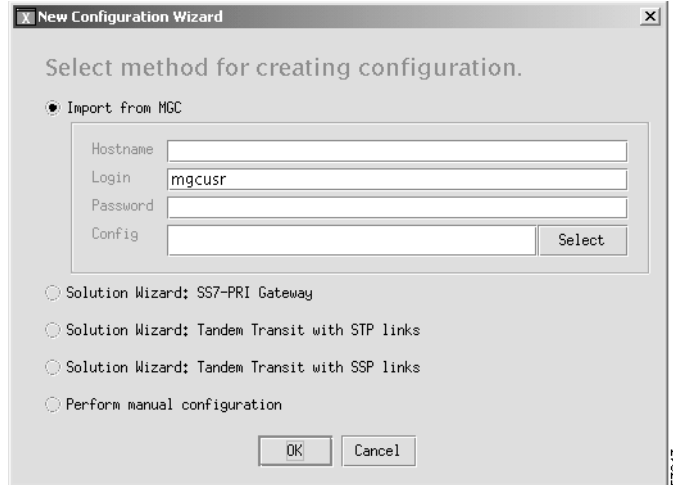
- [Starting a New Provisioning Session, page 2-1](#)
- [Overview of the VSPT Wizards, page 2-3](#)
- [Using the Tandem Transit with STP Solution Wizard, page 2-4](#)

Starting a New Provisioning Session

Use the following procedure to start a new VSPT provisioning session:

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- Step 1** Start and log in to the VSPT.
 - Step 2** Select **File > New**.
 - Step 3** Enter a name for the new configuration you will create, and click **OK**. The screen shown in [Figure 2-1](#) appears.

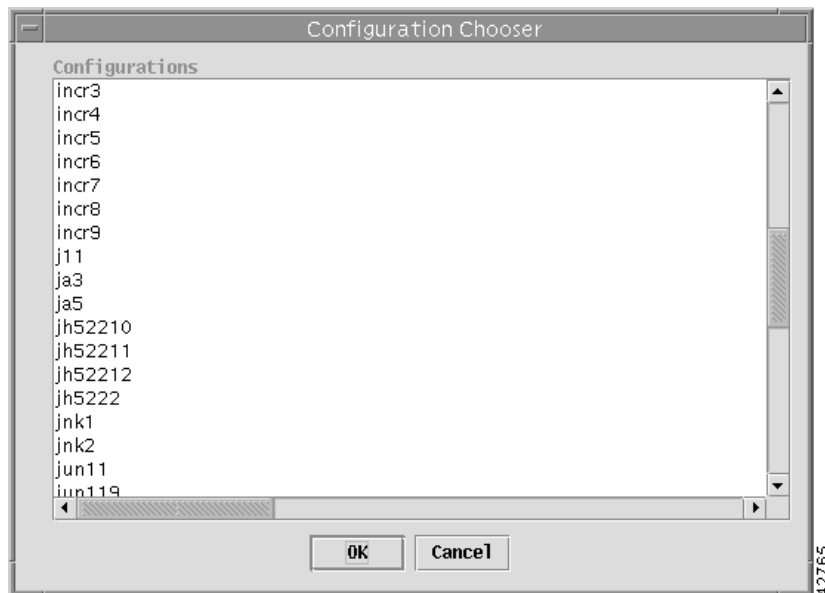
Figure 2-1 Select Method for Creating Configuration



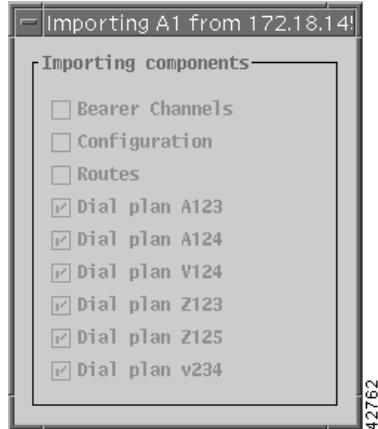
- Step 4** If you want to import an existing configuration, click the **Import from MGC** radio button, and click **Select**; otherwise, click **Perform Manual Configuration** and refer to the *Cisco Media Gateway Controller Software Release 9 Provisioning Guide* for manual provisioning information, or choose the solution wizard to use.

If you import an existing configuration, the screen shown in [Figure 2-2](#) appears.

Figure 2-2 Select Configuration



- Step 5** Select the configuration to import, and click **OK**. The screen shown in [Figure 2-3](#) is displayed, and checkmarks appear in the boxes as the configuration is imported.

Figure 2-3 Importing Configuration

Step 6 The existing configuration will be imported from your Cisco MGC.

Overview of the VSPT Wizards

The VSPT includes the following solution provisioning wizards:

- SS7-PRI Gateway—Offloads modem dial traffic from CLEC switches and either forwards the calls, using SS7, to the destination CLEC switches or translates the calls to ISDN PRI to terminate them on the NAS gateways.
- Tandem Transit with STP Links—Offloads modem dial traffic from CLEC switches and forwards the calls to the Internet Protocol (IP) network through a signal transfer point (STP).
- Tandem Transit with SSP Links—Offloads modem dial traffic from CLEC switches and forwards the calls to the Internet Protocol (IP) network with no intermediate connection to STPs.

Each wizard automatically guides you through many of the steps involved in creating a provisioning configuration for a specific solution. A VSPT wizard:

- Lets you create configuration files across multiple devices, for example, MGCs and Cisco MGX 8850s.
- Helps you avoid common errors when provisioning devices independently, such as ensuring that you correctly match D channels for PRI.
- Lets you avoid having to repeatedly enter duplicate data.
- Creates the MML files and the Cisco MGX 8850 command files used to provision the MGC.

The example in this chapter uses a wizard to provision a tandem transit with STP links solution, but the process is similar for all VSPT wizards. Specific components and steps vary, depending on the solution wizard you are using; for a complete description of solution components, refer to the documentation for that solution.

When you finish the provisioning session, the VSPT wizard saves your configuration as the “active” configuration, and it cannot be modified. To make changes, you must save the configuration with another name and deploy the new provisioning session to make it active.

The number of configurations you can store might be limited by available disk space. Consider deleting old or unwanted configurations, or save them to another machine, if you do not have sufficient disk space.

**Note**

The provisioning procedures described in this chapter follow the sequence for provisioning a “typical” Cisco MGC described in the Cisco *Media Gateway Controller Release 9 Provisioning Guide*.

Using the Tandem Transit with STP Solution Wizard

The VSPT utility, Solution Wizard: Tandem Transit with STP Links, guides you step-by-step through the following procedures:

- [Configuring the Cisco MGC, page 2-4](#)
- [Configuring SS7 Signaling Services, page 2-6](#)
- [Configuring Media Gateway Control Links, page 2-10](#)

When you finish using the VSPT wizard, you must still configure the trunk groups, trunks, and routes. For more information, see the [Configuring Bearer Traffic](#) section of the Cisco *Media Gateway Controller Software Release 9 Provisioning Guide*.

**Tip**

Before you begin provisioning, compile information about the solution components, including their names, IP addresses, and properties. Worksheets designed for collecting this information are provided in the Cisco *Media Gateway Controller Software Release 9 Provisioning Guide*. Complete them before you begin provisioning, and refer to them during provisioning.

Configuring the Cisco MGC

Use the following procedure to provision a Cisco MGC using the Tandem Transit with STP solution wizard:

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- Step 1** Start a new provisioning session, and click **File > New**.
 - Step 2** Click the **Solution Wizard: Tandem Transit with STP** radio button, and click **OK**. A screen similar to the one in [Figure 2-4](#) appears.

Figure 2-4 Specifying Cisco MGC Properties

Step 3 Enter the MGC IP address, for example, 172.31.157.1, in the MGC Hostname field.

Step 4 Enter a login ID and a password.

Step 5 Click **Next**. A screen similar to the one in [Figure 2-5](#) appears.

Figure 2-5 Specifying MGC IP Addresses

Step 6 Enter the network addresses of the MGC (IP_Addr1 and IP_Addr2) in dotted notation, for example, 172.18.145.38.

Step 7 Click **Next**.

- Step 8** If the Cisco MGC has a failover Cisco MGC, click the radio button next to **Has a failover MGC**, and enter the network addresses of the failover Cisco MGC (**IP_Addr1** and **IP_Addr2**) in dotted notation. If there is no failover Cisco MGC, click on the radio button next to **Does not have a failover MGC**. The **IP_Addr 1** and **IP_Addr 2** fields are not valid and are grayed out, as shown in [Figure 2-5](#).
- Step 9** Click **Next**. A screen similar to the one in [Figure 2-6](#) appears, and SS7 signaling service provisioning begins.

Configuring SS7 Signaling Services

Figure 2-6 Specifying a Point Code

The screenshot shows a window titled "New Wizard: Tandem Transit with STP links" with a close button (X) in the top right corner. The main content area is titled "Specify Point Code for MGC" and contains a form with the following fields:

- Name:** OPC-1
- Description:** Originating Point Code
- NetAddr:** 172.244.102.33 (with an "ANSI" button to the right)
- NetIndicator:** National network (2) (dropdown menu)
- OPC Type:** TRUEOPC (dropdown menu)
- True OPC:** <UNSET> (dropdown menu)

At the bottom of the window, there are three buttons: "< Back", "Next >", and "Cancel". A small vertical number "57906" is visible on the right side of the window frame.

Use the following procedure to configure SS7 signaling services:

- Step 1** Enter a name, for example, OPC.
- Step 2** Enter a description, for example, Originating Point Code.
- Step 3** Enter the network address (NetAddr) in dotted notation, for example, 172.16.102.39.
- Step 4** From the NetIndicator drop-down menu, choose the network indicator menu:
- International—Used if the node is an international gateway.
 - Spare—Used in countries where multiple carriers share point codes; in this case, networks are differentiated by this indicator.
 - National—Used if the node routes calls through the national network (default value).
 - Reserved—For national use. Do not use.
- Step 5** From the OPC type indicator, choose either TRUEOPC or CAPOCP.
- Step 6** Leave the True OPC indicator at <UNSET>.
- Step 7** Click **Next**.

- Step 8** Specifying the Number of Adjacent Point Codes
- Step 9** Enter the number of adjacent point codes (APCs) to create, corresponding to the number of Cisco MGX 8850 switches to be provisioned. Click **Next**.
- Step 10** A screen similar to the one in [Figure 2-7](#) appears.

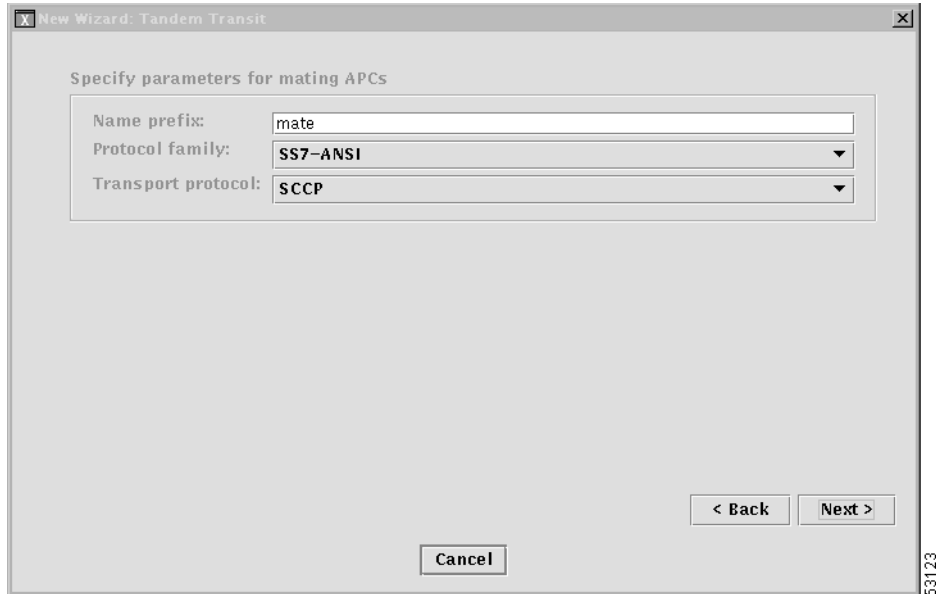
Figure 2-7 Specifying Properties for Each APC

The screenshot shows a window titled "New Wizard: Tandem Transit with STP links". Inside the window, the text "Specify parameters for APC #1" is displayed. Below this text is a form with the following fields and values:

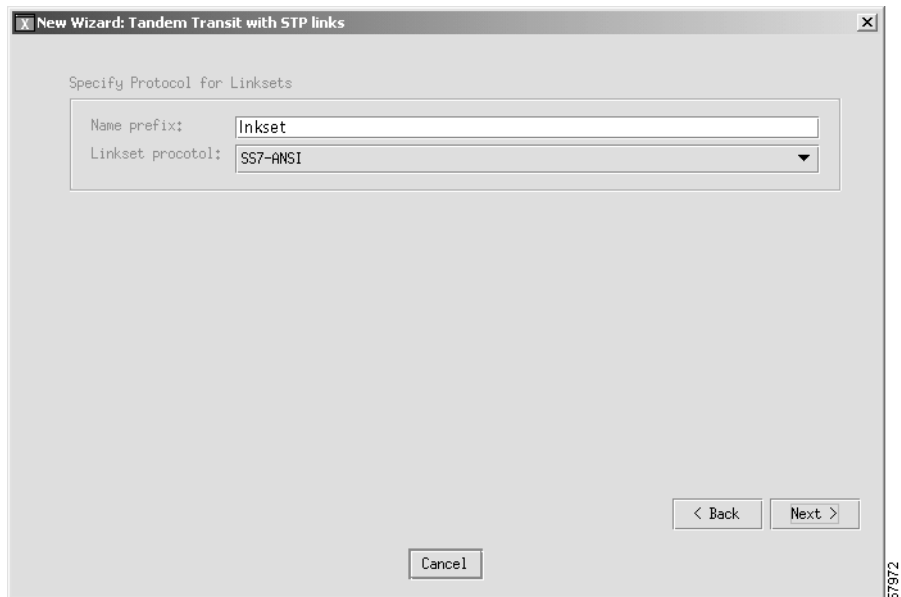
- Name: STP-1
- Description: Point code for STP
- NetAddr: 0.0.0 (with an ANSI button to the right)
- NetIndicator: National network (2) (with a dropdown arrow)

At the bottom of the window, there are three buttons: "< Back", "Next >", and "Cancel".

- Step 11** Enter the APC name.
- Step 12** Enter a description.
- Step 13** Enter the network address (NetAddr) in dotted notation; for example, 2.2.1.
- Step 14** From the NetIndicator drop-down menu, choose the network indicator:
- International—Used if the node is an international gateway.
 - Spare—Used in countries where multiple carriers share point codes; in this case, networks are differentiated by this indicator.
 - National—Used if the node routes calls through the national network (default value).
 - Reserved—For national use. Do not use.
- Step 15** Click **Next**. A screen similar to the one in [Figure 2-7](#) appears for each APC you specified in [Step 9](#).
- Step 16** Repeat [Step 11](#) through [Step 15](#) for each APC screen. After you have configured properties for each APC you specified in [Step 9](#), a screen similar to the one shown in [Figure 2-8](#) appears.

Figure 2-8 Specifying Properties for Mating APCs

- Step 17** Enter the name prefix (default is mate).
- Step 18** Choose the protocol family.
- Step 19** Choose the transport protocol.
- Step 20** Click Next. A screen similar to the one in [Figure 2-9](#) appears.

Figure 2-9 Specifying a Protocol for Linksets

- Step 21** Enter the name prefix (default is lnkset).
- Step 22** From the Linkset protocol drop-down menu, choose the linkset protocol.

Step 23 Click **Next**. A screen similar to the one in [Figure 2-10](#) appears.

Figure 2-10 Specifying Values for C7 IP Inks

New Wizard: Tandem Transit with STP links

Specify Values for C7 IPInks

Name prefix: c7ip

IP addr for SLT 1:

IP addr for SLT 2:

Local port: 7000

< Back Next >

Cancel

57973

Step 24 Enter the name prefix (the default is c7ip).

Step 25 Enter the network addresses (IP addr for SLT 1 and IP addr for SLT 2) in dotted notation; for example, **172.16.145.38**.

Step 26 Enter the local port.

Step 27 Click **Next**. A screen similar to the one in [Figure 2-11](#) appears, and you can begin provisioning media gateway control links.

Configuring Media Gateway Control Links

Figure 2-11 Specifying the Number of Destination Point Codes

Use the following procedure to configure media gateway control links for this solution.

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- Step 1** Enter the number of DPCs to create.
 - Step 2** Click **Next**. A screen similar to the one in [Figure 2-12](#) appears.

Figure 2-12 Specifying Properties for Each DPC

- Step 3** Enter the DPC name.
- Step 4** Enter the network address of the destination network element in dotted notation; for example, 172.16.145.38.
- Step 5** Enter the SS7 path name.
- Step 6** From the MDO drop-down menu, choose the protocol for this signaling service, for example, ANSIS7_STANDARD.
- Step 7** Enter the Customer group ID.
- Step 8** Click **Next**.
- Step 9** Enter the SS7 route name prefix, and click **Next**.
- Step 10** A screen similar to the one in [Figure 2-13](#) appears.

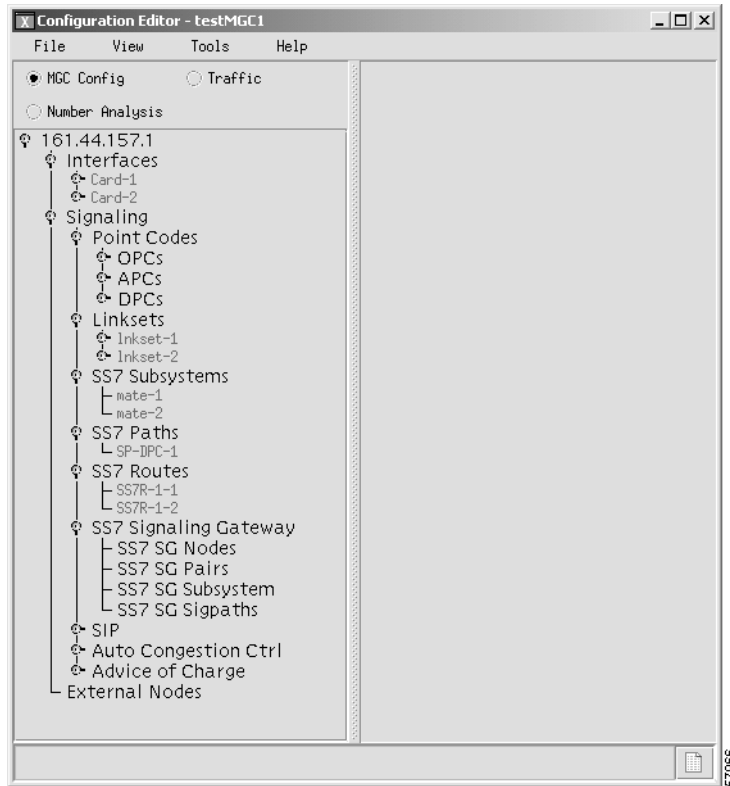
Figure 2-13 Importing VISMs from the MGX 8850 Chassis

- Step 11** Enter the MGX 8850 host name in which the VISM cards are installed.
- Step 12** Enter the login ID for the MGX8850 host.
- Step 13** Enter the password.
- Step 14** Click **Import VISMs**. A list of the imported MGX 8850 switches appears in the lower portion of the screen.
- Step 15** Click **Finish**. You can now provision trunk groups, trunks, and routes for this solution. Refer to the *Cisco Media Gateway Controller Software Release 9 Provisioning Guide*.

Provisioning Session Results

The results of the provisioning session you just completed are visible in the hierarchical tree on the left pane of the main VSPT screen, as shown in [Figure 2-14](#).

Figure 2-14 Expanded Hierarchical Tree Showing Results of Provisioning Session



You can expand the branches to view individual components. To view the provisioning information for a particular system component, click on the component name. Information about the selected component is shown on the right pane of the screen.

**Note**

You cannot use the VSPT wizard to provision trunk groups, trunks, and routes. For more information about provisioning these components using the VSPT, refer to the *Cisco Media Gateway Controller Software Release 9 Provisioning Guide*.