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Using Tcl

Comware V7 provides a built-in tool command language (Tcl) interpreter. From user view, you can use the **tclsh** command to enter Tcl configuration view to execute the following commands:

- All Tcl 8.5 commands.
- Comware commands.

The Tcl configuration view is equivalent to the user view. You can use Comware commands in Tcl configuration view in the same way they are used in user view. For example, you can perform the following tasks:

- Use the **system-view** command to enter system view to configure features.
- Use the **quit** command to return to the upper-level view.

Using Tcl to configure the device

When you use Tcl to configure the device, follow these guidelines and restrictions:

- You can apply Tcl environment variables to Comware commands.
- No online help information is provided for Tcl commands.
- You cannot press **Tab** to complete an abbreviated Tcl command.
- Make sure the Tcl commands can be executed correctly. If a problem occurs when the Tcl commands are being executed, you can terminate the process by closing the connection if you logged in through Telnet or SSH. If you logged in from the console port, you must restart the device. As a best practice, log in through Telnet or SSH.

To use Tcl to configure the device:

Task	Command	Remarks
Enter Tcl configuration view from user view.	tclsh	N/A
Execute a Tcl command.	<i>Tcl command</i>	You can use a Comware command to enter a subview under Tcl configuration view to configure the device.
Return from a subview under Tcl configuration view to the upper-level view.	quit	N/A
Return from a subview under Tcl configuration view to Tcl configuration view.	Press Ctrl+Z .	N/A
Return from Tcl configuration view to user view.	<ul style="list-style-type: none">• tclquit• quit	The tclquit command is available only in Tcl configuration view.

Executing Comware commands in Tcl configuration view

Follow these restrictions and guidelines when you execute Comware commands in Tcl configuration view:

- For Comware commands, you can enter **?** to obtain online help or press **Tab** to complete an abbreviated command. For more information, see "Using the CLI."
- The **cli** command is a Tcl command, so you cannot enter **?** to obtain online help or press **Tab** to complete an abbreviated command.
- Successfully executed Comware commands are saved to command history buffers. You can use the upper arrow or lower arrow key to obtain executed commands.
- To execute multiple Comware commands in one operation:
 - Enter multiple Comware commands separated by semi-colons to execute the commands in the order they are entered. For example, **ospf 100; area 0**.
 - Specify multiple Comware commands for the **cli** command, quote them, and separate them by a space and a semicolon. For example, **cli "ospf 100 ; area 0"**.
 - Specify one Comware command for each **cli** command and separate them by a space and a semicolon. For example, **cli ospf 100 ; cli area 0**.

To execute Comware commands in Tcl configuration view:

Step	Command	Remarks
1. Enter Tcl configuration view	tclsh	N/A
2. Execute Comware commands directly.	<i>Command</i>	Use either method.
3. Execute Comware commands by using the cli command.	cli command	If you execute a Comware command directly, a Tcl command is executed when the Tcl command conflicts with the Comware command. If you execute a Comware command by using the cli command, the Comware command is executed when it conflicts with a Tcl command.