



Managing with the Configuration Desktop

These sections describe how to manage with the Configuration Desktop:

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Overview of the Configuration Desktop

The Configuration Desktop applications allow you to configure the Cisco routers within your network. The Configuration Desktop is opened for one logical router (LR) chosen in the Craft Works Interface (CWI) Desktop, and multiple Configuration Desktops for different LRs can be opened concurrently. For detailed information on the Configuration Desktop applications, see the *Cisco Craft Works Interface Configuration Applications Reference Guide*.

[Table 2-1](#) lists the different options to configure an LR using the Configuration Desktop.

Table 2-1 Options to Configure a Logical Router

| Type | Description |
|-------------------------------|--|
| GUI ¹ applications | Configures specific components of an LR using a user-friendly interface. See the “ Managing with Text Editor ” section on page 2-101 and the “ Common Activities in Configuration Desktop Applications ” section on page 2-107 for information on the GUI applications in the Configuration Desktop. |

Table 2-1 Options to Configure a Logical Router (continued)

| Type | Description |
|------------------------------|---|
| Configuration Editor | Configures an LR using CLI ² commands, functions, and features. When the Configuration Editor is opened, it contains a copy of the running configuration on the LR. This copy of the running configuration becomes the target configuration, which you can edit using CLI commands and functions. See Chapter 3, “Configuring with the Configuration Editor,” for information on the Configuration Editor. Note You must launch the Configuration Editor from the CWI Desktop. |
| Replace Configuration Editor | Loads or creates a configuration using CLI commands, functions, and features. The content of the Replace Configuration Editor must either be committed (become the running configuration) or be saved locally. See Chapter 4, “Configuring with the Replace Configuration Editor,” for information on the Replace Configuration Editor. |

1. GUI = graphical user interface
2. CLI = command-line interface

[Table 2-2](#) lists the GUI applications for the Configuration Desktop. You can concurrently access multiple applications within the Configuration Desktop.

Table 2-2 Configuration Desktop Applications

| Name | Description |
|-------------------------------------|---|
| Administration Configuration | |
| AAA ¹ | Manages TACAC servers. |
| Alarm Administration | Specifies event (alarm) log and correlation rule parameters. |
| User Administration | Manages users, user groups, and task groups. |
| Applications Configuration | |
| IEP ² | Creates and configures an IEP. |
| MPLS-TE ³ | Configures MPLS-TE on the router. |
| Interfaces Configuration | |
| Common | Displays and sets attributes common to all available interfaces. |
| Ethernet | Displays and sets the attributes specific to the available Ethernet interfaces. |
| PoS ⁴ | Display and set the attributes specific to the available PoS interfaces. |
| Controllers Configuration | |
| SONET | Displays and sets the attributes specific to SONET on a router port using Layer 1 SONET transport technology. |
| Policy Configuration | |
| Access Control Lists | Displays, creates, and edits ACLs ⁵ and ACEs ⁶ . |
| Packet Filter | Displays and chooses the inbound and outbound ACLs that apply to each interface. |
| QoS ⁷ | Displays and edits class maps, policy maps, and service policies. |

Table 2-2 Configuration Desktop Applications (continued)

| Name | Description |
|--------------------------------|---|
| Routing Policy | Displays, creates, and edits prefix lists and redistributes route information from one routing protocol to another. |
| Protocols Configuration | |
| BGP ⁸ | Displays, edits, and configures BGP parameters. |
| IS-IS ⁹ | Displays, edits, and configures an IS-IS routing protocol on process, address, family (topology), and interface levels. |
| LDP ¹⁰ | Displays, edits, and configures LDP globally and enables or disables LDP for each interface or neighbor. |
| OSPF ¹¹ | Displays, edits, and configures OSPF processes, areas, and interfaces. |
| RSVP ¹² | Displays, edits, and configures RSVP configurations for available interfaces. |

1. AAA = authentication, authorization, and accounting
2. IEP = IP explicit path
3. MPLS-TE = Multiprotocol Label Switching traffic engineering
4. PoS = Packet-over-SONET
5. ACL = access control list
6. ACE = access control entries
7. QoS = quality of service
8. BGP = Border Gateway Protocol
9. IS-IS = Intermediate System-to-Intermediate System
10. LDP = Label Distribution Protocol
11. OSPF = Open Shortest Path First
12. RSVP = Resource Reservation Protocol

Launching the CWI Configuration Desktop

You can use the CWI Configuration Desktop to interactively display and manage the configuration. The Configuration Desktop is the main point of access to all configuration applications.

To launch the Configuration Desktop from the main CWI desktop, perform the following steps:

-
- Step 1** Choose the logical router in the root node in the Physical View. Or press **Ctrl** and click the desired objects in the Inventory Tree to choose random multiple objects.
- Step 2** Invoke the Configuration Desktop. Choose one of the following options:
- a. Choose **Tools > Configuration Desktop**.
 - b. Right-click the logical router node in the Physical View and choose **Configuration Desktop**.

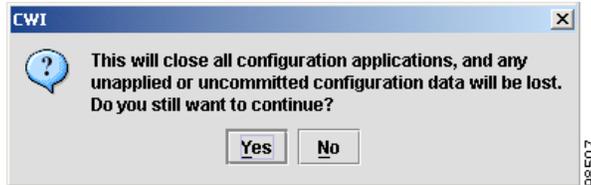
The Configuration Desktop window is displayed (see [Figure 2-2](#)). You can select one of the configuration applications.

Closing the Configuration Desktop

To close the Configuration Desktop, perform the following steps:

-
- Step 1** Choose **File > Exit**. Or click the Close button on the application title bar. A CWI dialog box appears (see [Figure 2-1](#)).

Figure 2-1 CWI Dialog Box



- Step 2** Click **Yes** to close the Configuration Desktop. The Configuration Desktop closes.
-

Navigating the Configuration Desktop

The Configuration Desktop is designed with common features in all Configuration Desktop applications. These features provide an easy to use and consistent user interface.

The Configuration Desktop provides various applications that allow you to monitor and configure a router. All configuration activities originate from the Configuration Desktop. One Configuration Desktop can be opened for one LR.

The line card type and interface selected in the Inventory Tree when the Configuration Desktop is opened determines which configuration applications are available.

These sections describe how to navigate the Configuration Desktop:

- [Configuration Desktop Window, page 2-83](#)
- [Configuration Applications Tree, page 2-84](#)
- [Configuration Applications Pane, page 2-88](#)
- [Launch Context Pane, page 2-89](#)
- [Configuration Desktop Menu Bar, page 2-90](#)
- [Configuration Desktop Toolbar, page 2-92](#)
- [Application Toolbar, page 2-94](#)
- [Configuration Desktop Application Buttons, page 2-96](#)
- [Configuration Desktop Status Bar, page 2-96](#)
- [Configuration Change Handling, page 2-96](#)
- [Validating the Required Fields, page 2-98](#)
- [Error Handling, page 2-99](#)

Configuration Desktop Window

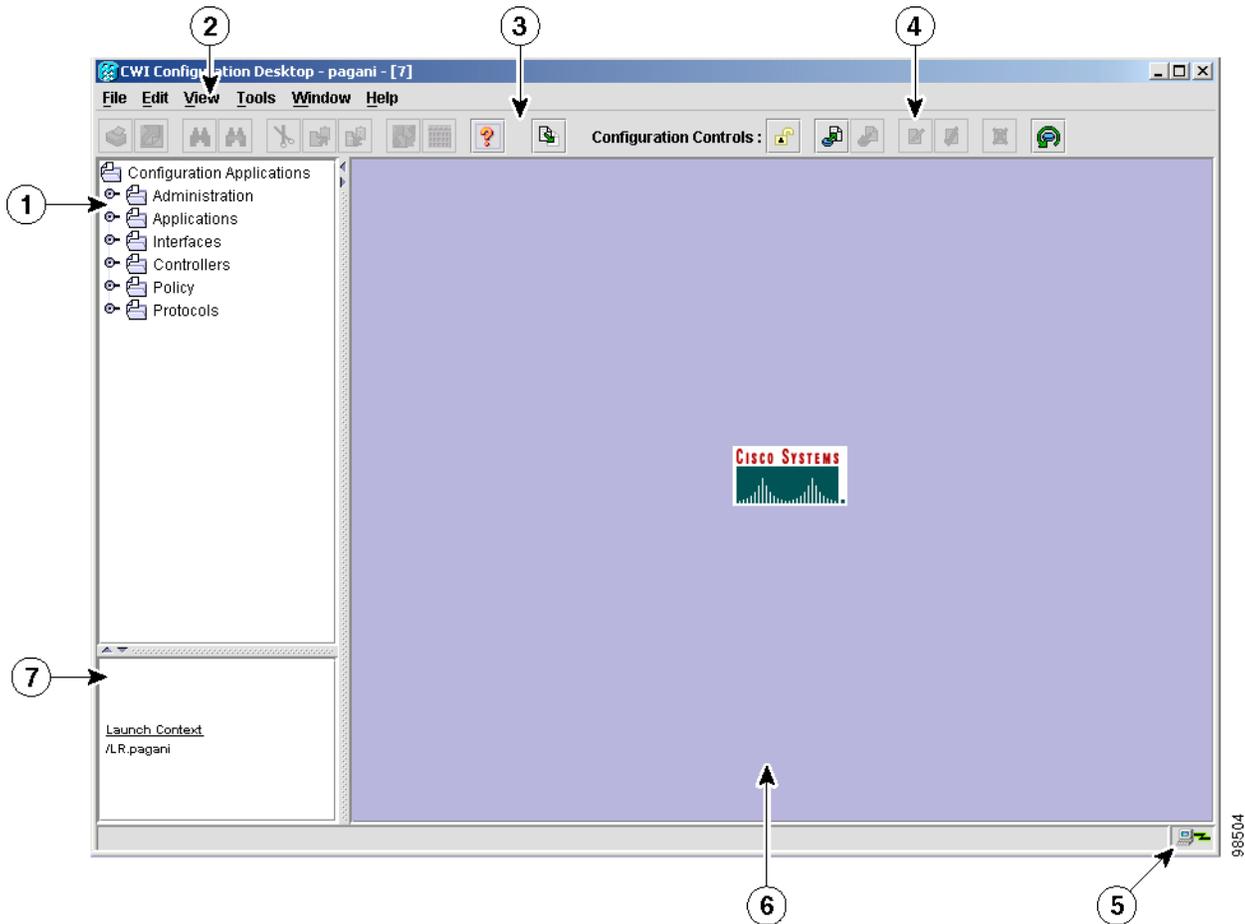
The Configuration Desktop window (see [Figure 2-2](#)) is used to start all the configuration applications. You can also perform all configuration activities on the router network.

[Table 2-3](#) lists the primary panes in the Configuration Desktop.

Table 2-3 Primary Panes

| Pane | Description |
|---------------------------------|--|
| Configuration Applications tree | Displays all applications available in the Configuration Desktop. See the “Configuration Applications Tree” section on page 2-84 for more information. |
| Configuration Applications pane | Displays all active configuration applications. See the “Configuration Applications Pane” section on page 2-88 for more information. |
| Launch Context pane | Displays the objects that were chosen when the Configuration Desktop was opened from the CWI Desktop. For interfaces, only the objects listed in the Launch Context pane are available for configuration. See the “Launch Context Pane” section on page 2-89 for more information. |

Figure 2-2 Configuration Desktop

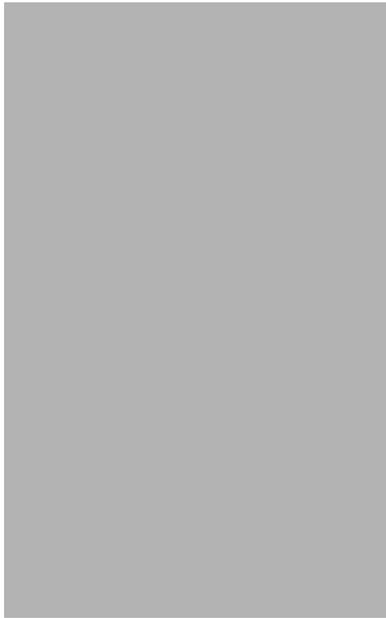


| | | | |
|---|--|---|----------------------------------|
| 1 | Configuration Applications Tree | 5 | Configuration Desktop status bar |
| 2 | Configuration Desktop menu bar | 6 | Configuration Applications pane |
| 3 | Configuration Desktop toolbar (Standard toolbar icons) | 7 | Launch Context pane |
| 4 | Configuration Desktop toolbar (Configuration Controls toolbar icons) | — | — |

Configuration Applications Tree

The Configuration Applications Tree is the primary interface to all configuration applications in the CWI. You can navigate the configuration applications and dynamically display the status of the applications. The icon for each application in the tree indicates the state of the application (see [Figure 2-3](#)).

Right-click an application icon in the Applications Tree. A popup menu allows you to start the chosen application or double-click the application to open it.

Figure 2-3 Configuration Applications Tree Symbols

| | | | |
|----------|---------------------------|----------|----------------------|
| 1 | Not Permitted | 4 | Disabled |
| 2 | Unchanged Configuration | 5 | Incompatible Version |
| 3 | Uncommitted Configuration | — | — |

When there is an uncommitted configuration on the router, right-click the Configuration Applications icon in the Configuration Applications Tree. A popup menu allows you to display uncommitted configuration (also known as the *target configuration*) settings in a window in CLI format. The Configuration Applications icon changes from a folder to a folder with paper and a pencil when there is an uncommitted configuration in the Configuration Desktop.

[Table 2-4](#) describes the Configuration Applications tree symbols.

Table 2-4 Symbols for the Configuration Applications Tree

| Name | Description |
|---|--|
| Not Permitted symbol (no entry symbol on a page) | Indicates that the application is not available. This symbol indicates that you do not have permission to start the application. |
| Unchanged Configuration symbol (blank page) | Indicates that the application is available and there is no uncommitted configuration for the application. |
| Disabled symbol (dimmed page or not available) | Indicates that the application has already been disabled. |

Table 2-4 Symbols for the Configuration Applications Tree (continued)

| Name | Description |
|---|---|
| Uncommitted Configuration symbol (paper and pencil) | Indicates that the application contains configuration changes that have not been committed and are in the target configuration. |
| Incompatible Version symbol (a large red V) | Indicates that the application is not available and there is a version mismatch between the software on the router and the CWI graphical configuration (mismatches are not relevant to the Configuration Editor or CWI Telnet Plus configurations). |

User Permissions

User permissions for each configuration application are displayed in tooltips. Permissions are based on assigned task IDs. Task IDs are assigned to users by associating each user with one or more user groups. Every user group is associated with one or more task groups; in turn, every task group is defined by a set of task IDs and a set of permissions associated with each task ID. Consequently, a user's association with a particular user group links that user to a particular set of task IDs and permissions associated with each of those task IDs. The permissions associated with a task ID that a user is linked to dictate what kind of operation the user can perform on a particular command that requires the same task ID. For example, if a user has only read permissions for a particular task ID, then the user can only view the commands and output and not change any configuration.



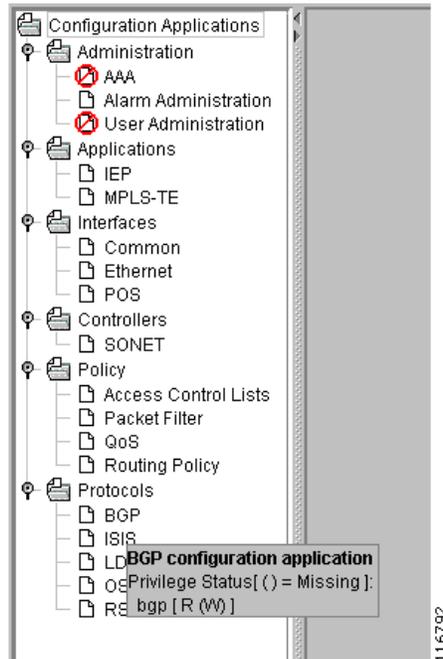
Note

Task IDs grant permission to perform certain tasks; task IDs do not deny permission to perform tasks.

When the pointer is placed on an application icon in the Configuration Applications tree, the tooltip containing the task ID permissions appears (see [Figure 2-4](#)).

Each line after the Privilege Status line represents an AAA task ID that is required for complete read and write access to the selected configuration application. For information on task IDs, see the *Cisco IOS XR Getting Started Guide*.

Figure 2-4 Configuration Applications Permissions



The task ID permissions are read, write, execute, and notify. When you launch an application, you can configure all parameters in the application that are associated with the task IDs for which you are assigned read and write permissions. If there are task IDs for which you are not assigned write permissions, you will not be able to configure any parameters that are associated with those task IDs (you have read-only access). An error message is displayed when you attempt to apply configuration changes to a parameter that you do not have write permissions assigned.

**Note**

If you do not have write permissions for all the task IDs for a configuration application, you can still launch the application with read-only access.

Table 2-5 provides descriptions of the permission syntax used in the tooltips.

Table 2-5 Task ID Permission in Tooltips

| Syntax | Description |
|-------------------------------------|---|
| Privilege Status [() = Missing]: | Any permission key listed inside the ‘()’ is a permission that is required to have complete access to the selected configuration application. For example, bgp [R (W)] indicates that the bgp taskID with read and write permissions is required for full (read and write) access to the application. The example indicates only read permissions for bgp taskID. |
| [(R) (W)] | Read and write permissions are required, but you do not have either of the permissions. |
| [R W] | Read and write permissions are required, and you have both permissions. |

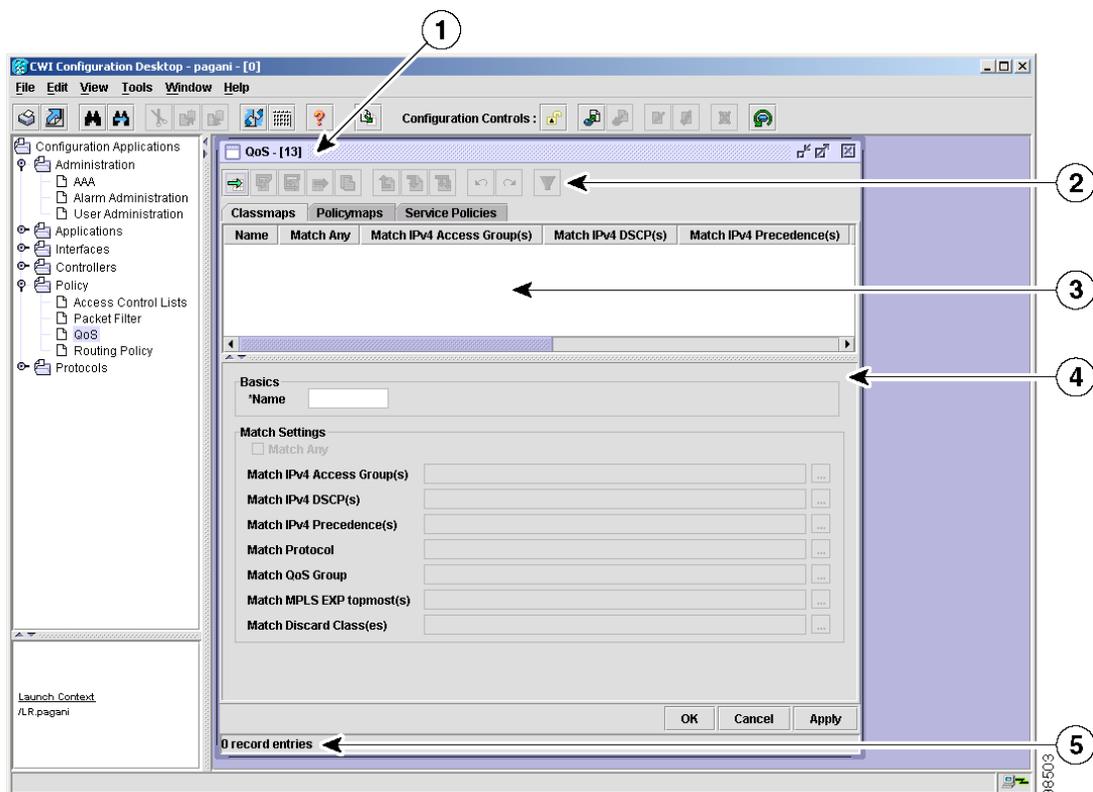
Table 2-5 Task ID Permission in Tooltips (continued)

| Syntax | Description |
|-----------|--|
| [(R) W] | Read and write permissions are required, and you have write permissions. |
| [R (W)] | Read and write permissions are required, and you have read permissions. |

Configuration Applications Pane

The Configuration Applications pane is the area of the Configuration Desktop that contains the active configuration applications used to configure the router. Multiple applications can be opened concurrently in the Configuration Applications pane.

An example of an application in the Configuration Applications pane is displayed (see [Figure 2-5](#)).

Figure 2-5 Example of an Application Window

| | | | |
|---|-----------------------|---|------------------------|
| 1 | Application title bar | 4 | Application pane |
| 2 | Application tool bar | 5 | Application status bar |
| 3 | Application table | — | — |

Several components in the applications are similar. The similarities in the applications provide a consistent user interface, as listed in [Table 2-6](#).

See the [“Managing with Text Editor” section on page 2-101](#) for detailed information on similar components in the configuration applications.

Table 2-6 Components for the Applications Pane

| Component | Description |
|------------------------|---|
| Application title bar | Contains the name of the application. The application title bar also provides Minimize, Maximum, and Close buttons to control the application window. |
| Application toolbar | Provides quick access to commonly used functions. Several of the applications do not contain all the tools shown (see Figure 2-6). The following applications contain all the tools except Add, Clone, Clone Special, and Delete: <ul style="list-style-type: none"> • Common • Ethernet • PoS • SONET • Packet Filter See the “Validating the Required Fields” section on page 2-98 . |
| Application status bar | Displays the status of the application. |
| Application pane | Displays the details for the record selected in the application table. The Application pane contains attributes for one or more records. When one or more records is chosen in the Application table, the attributes are displayed in the Application pane. The Application pane can contain multiple tabs, which allows the application to combine multiple functions within a single configuration application. Tooltips provide information such as default value, accepted range, and a description of the field for each input field in the Application pane. See the “Managing with Text Editor” section on page 2-101 for information on validating fields in the Application pane. |
| Application table | Displays all the records for the application in table format. When a record in the Application table is chosen, the record details appear in the Application pane. See the “Managing with Text Editor” section on page 2-101 for information on validating cells in the application table. |

Launch Context Pane

The Launch Context pane displays the objects that were chosen when the Configuration Desktop was opened from the CWI Desktop. When you have multiple Configuration Desktop windows open, you can view the objects that can be configured in that instance of the Configuration Desktop. Only the objects listed in the Launch Context pane are available for configuration in the active Configuration Desktop.

Configuration Desktop Menu Bar

The Configuration Desktop menu bar (see [Table 2-7](#)) provides a list of options (see [Table 2-8](#)) available based on the chosen object and active application. The options are administrative, editing, and viewing tasks; starting applications; and arranging windows. The Configuration Desktop menu bar is located under the CWI Desktop title bar (see [Figure 2-2](#)).

Table 2-7 Configuration Desktop Menu

| Menu Bar | Task |
|----------|---|
| File | Prints and exports configuration application data or text, and exits the Configuration Desktop. |
| Edit | Cuts, copies, and pastes CWI application data or text, searches for data or text in a configuration application, and specifies configuration application preferences. |
| View | Shows and hides the CWI Desktop toolbar and status bar. |
| Tools | Opens the configuration applications used to configure a router. |
| Window | Closes configuration applications, cascades or minimizes open configuration applications in the Application pane, and chooses the active configuration application. |
| Help | Displays the online help. |

Table 2-8 Configuration Desktop Menu Bar Options

| Menu-Bar Options | Task |
|------------------|--|
| File | |
| Print | Prints data from the currently active application in tabular format. See the “Setting Preferences” section on page 1-71 . |
| Export | Exports the chosen report to a text (comma-separated or tab-separated) or HTML file. See the “Exporting Table Data” section on page 1-69 . |
| Exit | Closes the Configuration Desktop. See the “Closing the Configuration Desktop” section on page 2-82 . |
| Edit | |
| Cut | Removes the currently chosen data or text and moves it to the Clipboard (supported in the Configuration Editor, Replace Configuration Editor, and Text Editor applications). See the “Cutting, Copying, and Pasting Text in the Configuration Editor” section on page 3-133 , the “Cutting, Copying, and Pasting Text in the Replace Configuration Editor” section on page 4-142 , and the “Cutting, Copying, and Pasting Text in the Text Editor” section on page 2-106 . |
| Copy | Copies the currently chosen data or text and moves it to the Clipboard (supported in the Configuration Editor, Replace Configuration Editor, and Text Editor applications). See the “Cutting, Copying, and Pasting Text in the Configuration Editor” section on page 3-133 , the “Cutting, Copying, and Pasting Text in the Replace Configuration Editor” section on page 4-142 , and the “Cutting, Copying, and Pasting Text in the Text Editor” section on page 2-106 . |

Table 2-8 Configuration Desktop Menu Bar Options (continued)

| Menu-Bar Options | Task |
|------------------|--|
| Paste | Pastes the data or text from the Clipboard into the currently chosen field (supported in the Configuration Editor, Replace Configuration Editor, and Text Editor applications). See the “Cutting, Copying, and Pasting Text in the Configuration Editor” section on page 3-133, the “Cutting, Copying, and Pasting Text in the Replace Configuration Editor” section on page 4-142, and the “Cutting, Copying, and Pasting Text in the Text Editor” section on page 2-106. |
| Find | Opens the Find dialog box allowing you to search the active window for specific text. See the “Setting Preferences” section on page 1-71. |
| Find Next | Finds the next instance of the specific text in the active window. See the “Setting Preferences” section on page 1-71. |
| Preferences | Opens the Table Preferences dialog box allowing you to choose the columns to be displayed in the active application table. See the “Setting Preferences” section on page 1-71. |
| View | |
| Show Tool Bar | Displays and hides the Configuration Desktop toolbar by activating and deactivating the Show Tool Bar check box. |
| Show Status Bar | Displays and hides the Configuration Desktop status bar by activating and deactivating the Show Status Bar check box. |
| Tools | |
| Administration | Displays, configures, and manages user access, permissions, and alarms for the following administration applications: <ul style="list-style-type: none"> • AAA • Alarm Administration • User Administration |
| Applications | Displays, configures, and manages traffic tunnels and explicit IP paths for the following applications: <ul style="list-style-type: none"> • IEP • MPLS-TE |
| Interfaces | Displays, configures, and manages Ethernet, PoS, and common interfaces for the following Interfaces applications: <ul style="list-style-type: none"> • Common • Ethernet • PoS |
| Controllers | Displays, configures, and manages SONET interfaces. The Controllers application is SONET. |

Table 2-8 Configuration Desktop Menu Bar Options (continued)

| Menu-Bar Options | Task |
|----------------------|--|
| Policy | Displays, configures, and manages system-wide policy-related rules for the following Policy applications: <ul style="list-style-type: none"> • Access Control Lists • Packet Filter • QoS • Routing Policy |
| Protocols | Manages, creates, displays, and edits protocol data and settings on the router for the following Protocol applications: <ul style="list-style-type: none"> • BGP • IS-IS • LDP • OSPF • RSVP |
| Window | |
| Close | Closes the active application in the Configuration Applications pane. |
| Close All | Closes all the applications in the Configuration Applications pane. |
| Cascade | Arranges all the applications in the Configuration Application pane in an overlapping pattern in which each application title bar is visible. |
| Minimize All | Minimizes all the application windows in the Configuration Applications pane. Double-click the minimized application in the Configuration Applications pane to maximize the applications. |
| List of Open Windows | Displays up to ten open application windows. The windows are displayed in the chronological order in which they were opened. Choosing a window from the menu makes it the active window in the Configuration Applications pane. |
| Windows | Opens a CWI Windows List dialog box that displays a list of open application windows. Choosing a window from the dialog box makes it the active window in the Configuration Applications pane. |
| Help | |
| Help Desktop | Opens the CWI Online Help. For information on online help, see the <i>Cisco Craft Works Interface Quick Start Guide</i> . |

Configuration Desktop Toolbar

The Configuration Desktop toolbar contains icons, referred to as tools, that provide quick access to common tasks used in all the configuration applications, allows you to open the Replace Configuration Editor, and controls the committing of a target configuration to the running configuration.

You can click the tool to choose the task. When the pointer is positioned over the tool, a tooltip appears describing the function of the tool.

A tool can be enabled or disabled, depending on where you are in the Configuration Desktop window. A tool appears dimmed when it is not available.

The Configuration Desktop toolbar contains standard tools and Configuration Controls tools (see [Figure 2-2](#)). All standard tools except Refresh are also available in the Configuration Desktop menu. The Configuration Controls tools are available only in the toolbar.

[Table 2-9](#) describes the Configuration Desktop toolbar icons.

Table 2-9 Configuration Desktop Toolbar Icons

| Icon | Description |
|---------------|--|
| Print | Prints data from the currently active application in tabular format. See the “Setting Preferences” section on page 1-71. |
| Export | Exports the chosen report to a text (comma-separated or tab-separated) or HTML file. See the “Exporting Table Data” section on page 1-69. |
| Find | Opens the Find dialog box allowing you to search the active window for specific text. See the “Setting Preferences” section on page 1-71. |
| Find Next | Finds the next instance of the specific text in the active window. See the “Setting Preferences” section on page 1-71. |
| Cut | Removes the currently chosen data or text and moves it to the Clipboard (supported in the Configuration Editor, Replace Configuration Editor, and Text Editor applications). See the “Cutting, Copying, and Pasting Text in the Configuration Editor” section on page 3-133, the “Cutting, Copying, and Pasting Text in the Replace Configuration Editor” section on page 4-142, and the “Cutting, Copying, and Pasting Text in the Text Editor” section on page 2-106. |
| Copy | Copies the currently chosen data or text and moves it to the Clipboard (supported in the Configuration Editor, Replace Configuration Editor, and Text Editor applications). See the “Cutting, Copying, and Pasting Text in the Configuration Editor” section on page 3-133, the “Cutting, Copying, and Pasting Text in the Replace Configuration Editor” section on page 4-142, and the “Cutting, Copying, and Pasting Text in the Text Editor” section on page 2-106. |
| Paste | Pastes the data or text from the Clipboard into the currently chosen field (supported in the Configuration Editor, Replace Configuration Editor, and Text Editor applications). See the “Cutting, Copying, and Pasting Text in the Configuration Editor” section on page 3-133, the “Cutting, Copying, and Pasting Text in the Replace Configuration Editor” section on page 4-142, and the “Cutting, Copying, and Pasting Text in the Text Editor” section on page 2-106. |
| Refresh | Refreshes the content in the active window in the Configuration Applications pane. See the “Refreshing Content” section on page 1-77. |
| Preferences | Opens the Table Preferences dialog box allowing you to choose the columns to be displayed in the active application table. See the “Setting Preferences” section on page 1-71. |
| Help Contents | Opens the CWI Online Help for the currently active application. For information on online help, see the <i>Cisco Craft Works Interface Quick Start Guide</i> . |

Table 2-9 Configuration Desktop Toolbar Icons (continued)

| Icon | Description |
|--------------------------------|---|
| Replace Configuration Editor | Opens the Replace Configuration Editor. See Chapter 4, “Configuring with the Replace Configuration Editor,” for information on the Replace Configuration Editor. |
| View Uncommitted Configuration | Displays all the configuration changes that still need to be committed in CLI ¹ format. For a procedure on how to display an uncommitted configuration, see the <i>Cisco Craft Works Interface Configuration Guide</i> . |

1. CLI = command-line interface

Configuration Controls Toolbar Icons

The configuration control tools are used to manage the configuration on the router. You can lock and unlock the running configuration on the router, load, save, clear, commit, or roll back a configuration. See the “[Common Activities in Configuration Desktop Applications](#)” section on page 2-107 for procedures.

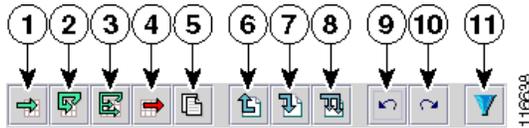
The Configuration Desktop toolbar contains the configuration control tools as described in [Table 2-10](#).

Table 2-10 Definitions for the Configuration Controls

| Icon | Definition |
|-------------|---|
| Lock/Unlock | Locks the running configuration on the router to prevent other users from committing a configuration while you are making changes. The status of the Lock/Unlock button indicates the current status. |
| Load | Allows you to enter the path and name of a configuration file to load. The Load button allows you to load a target configuration buffer that was previously saved on the router into the current target configuration. The loaded configuration merges with the current target configuration, with the items in the saved target buffer taking precedence over any items already in the target configuration. All active configuration applications are closed. |
| Save | Saves uncommitted configuration changes to a specified location on the router. |
| Commit | Commits the target configuration to the running configuration running on the router. The Commit button is enabled only after the parameters set in the configuration applications have been applied. Any errors resulting from a commit command are displayed in a read-only text window in CLI format. |
| Clear | Clears the target configuration and closes all active configuration applications. |
| Rollback | Contains a list of available rollback checkpoints saved on the router. A checkpoint is a previous commit operation. You can choose the checkpoint to which to roll back the running configuration. The checkpoints provide the usernames, date, and time of the commit operation. |

Application Toolbar

The Application toolbar contains icons, referred to as tools, which represent commonly used tasks in the configuration application. You can click a tool to choose a task. When the pointer is positioned over the tool, a tooltip appears describing the function of the tool.

Figure 2-6 Application Toolbar

| | | | |
|---|---------------|----|-------------------|
| 1 | Add Record | 7 | Row Paste |
| 2 | Clone Record | 8 | Row Paste Special |
| 3 | Clone Special | 9 | Undo Copy |
| 4 | Delete Record | 10 | Redo Copy |
| 5 | Set Defaults | 11 | Filter Table |
| 6 | Row Copy | — | — |

Table 2-11 describes the tools for the Application toolbar.

Table 2-11 Application Toolbar Definitions

| Icon | Description |
|----------------------|--|
| Add | Adds a blank record to the Application table. See the “Adding Records” section on page 2-109. |
| Clone Record | Creates a new row (object) using the attributes of the chosen row. At a minimum, the key fields must be modified. See the “Cloning Records” section on page 2-110. |
| Clone Special Record | Creates a specified number of new rows (objects) using the attributes of the chosen row. The key field values can be copied, initialized to empty, or automatically generated, according to the selected algorithm. See the “Cloning Records” section on page 2-110. |
| Delete Record | Deletes the chosen record in the Application table. Multiple record selection is supported. See the “Deleting Records” section on page 2-111. |
| Set Default | Sets default values for either a chosen field in a record or for a complete record. |
| Row Copy | Copies the chosen record in the Application table to the Clipboard. Only one record can be copied to the Clipboard at a time. See the “Copying a Row” section on page 2-113. |
| Row Paste | Copies the record in the Clipboard into the chosen row of the Application table. See the “Pasting a Row” section on page 2-113. |
| Row Paste Special | Copies chosen fields from the record in the Clipboard into the chosen row of the Application table. See the “Pasting a Row” section on page 2-113. |
| Undo Copy | Undoes the last task in the Configuration Desktop. The tool is available only when the last task can be undone. See the “Undoing and Redoing the Last Task” section on page 2-114. |
| Redo Copy | Redoes a task that was undone using the Undo tool. See the “Undoing and Redoing the Last Task” section on page 2-114. |
| Filter Table | Opens the Filter dialog box, which allows you to filter the records in the Application table. See the “Filtering Records” section on page 1-68. |

Configuration Desktop Application Buttons

The Configuration Desktop application buttons allow you to control the applying or canceling of changes in the active application. You can apply configuration information to the target configuration and keep the application open or close the application, or close the application without applying any changes or additions made to the configuration.

Table 2-12 describes the Configuration Desktop application buttons that are used in all Application panes.

Table 2-12 Configuration Desktop Application Buttons

| Button | Description |
|--------|---|
| OK | Validates the fields in the application, then applies the changes to the target configuration. When the changes have been applied to the router, the application closes. An error is displayed if the changes cannot be applied, and the application does not close. |
| Cancel | Closes the application without applying any changes or additions made since the application was opened or since the Apply button was last clicked. A Proceed dialog box (see Figure 2-17) is displayed to ensure that you want to close the application without saving changes. |
| Apply | Validates the fields in the application, then applies the changes to the target configuration. The application remains open when Apply is chosen, which allows you to continue using the application. |

Configuration Desktop Status Bar

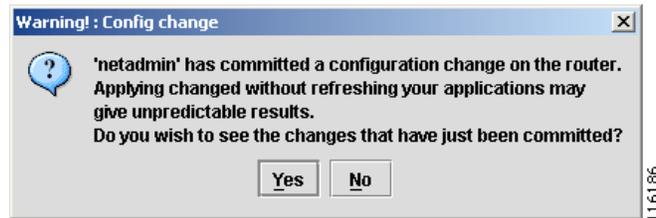
The Configuration Desktop status bar provides information on the status of the Configuration Desktop. The NE Connectivity Status icon is on the right side of the status bar (see Figure 2-2). The left side of the status bar may contain a progress message when the application is processing a task.

The NE Connectivity Status icon shows the connection status between the CWI and the management agent on the router. The icon shows a green connection line if the CWI is connected to the management agent and a red connection line if the CWI has a broken connection with the management agent.

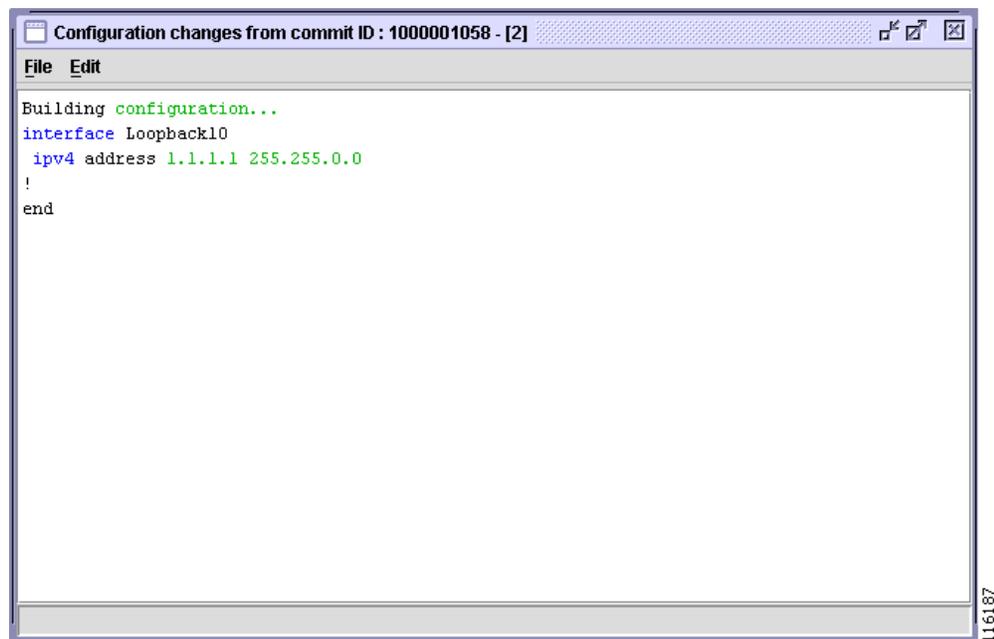
Configuration Change Handling

Configuration change handling allows you to be notified of a change to the configuration of a router and allows you to view the new configuration. See the “Managing with Text Editor” section on page 2-101 for information on Text Editor features and procedures.

If another user commits a configuration on the router you are logged in to, a dialog box informs you of the change (see Figure 2-7).

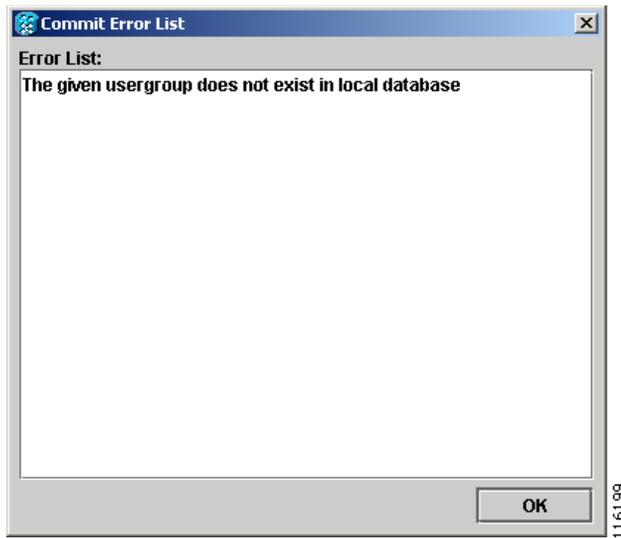
Figure 2-7 Configuration Change Dialog Box

If you click **Yes**, the Text Editor displays the configuration committed by the user (see [Figure 2-8](#)).

Figure 2-8 Configuration Changes from Commit Text Editor

The committed configuration is displayed in a new window (see [Figure 2-9](#)).

Figure 2-9 Configuration Changes from Commit Text Editor



Note

The managed router must be configured to send notifications to a specified client for configuration change notifications to be enabled. See the “Setting the Minimum Router Configuration” section in the *Cisco Craft Works Interface Quick Start Guide* for information on configuring the router to send notifications to a specified client.



Note

The Telnet/SSH server must be enabled before you can manage a router using certain CWI features. These features include the Telnet/SSH application, the Troubleshooter application, setting character displays in the Rack View application, and viewing committed configuration changes using the Configuration Change dialog box. See the *Cisco IOS XR Getting Started Guide* for information on enabling the Telnet/SSH server.

Validating the Required Fields

All required fields in the application pane or table contain data. In the Application pane, required fields are indicated with an asterisk (*) in front of the field name. These fields must have values entered before the OK or Apply button is clicked in the application; otherwise, a dialog box is displayed indicating that the required fields need values entered.

Field validation ensures that the data entered into the fields in the application pane or table is valid. [Table 2-13](#) lists the types of field validation in the configuration applications.

Table 2-13 Types of Field Validation

| Type | Description |
|----------------|--|
| Field value | If the value entered in the Application pane or Application table is invalid, when Tab is pressed or the pointer is moved to another field (the field loses focus), an error dialog box appears indicating that the field contains invalid data. |
| Required value | If a required value is missing from an Application pane or Application table and OK or Apply is clicked in the configuration application, a Client Side Error List dialog box appears listing the errors in the application. See the “Error Handling” section on page 2-99 for information on the Client Side Error List dialog box. |
| Default value | If a value is entered that is within the allowed range but is not the default value, the field is highlighted green. |
| Value range | If a value is entered that is not within the allowed range, an Error dialog box appears. |
| Entry format | If an entry does not conform to the required format, an Error dialog box appears. |

Error Handling

Error handling checks that the data entered into fields in the configuration application is valid. The data is first checked on the client side and, if there are no errors, the data is checked on the server side.

These sections describe the types of error handling provided by the CWI and router:

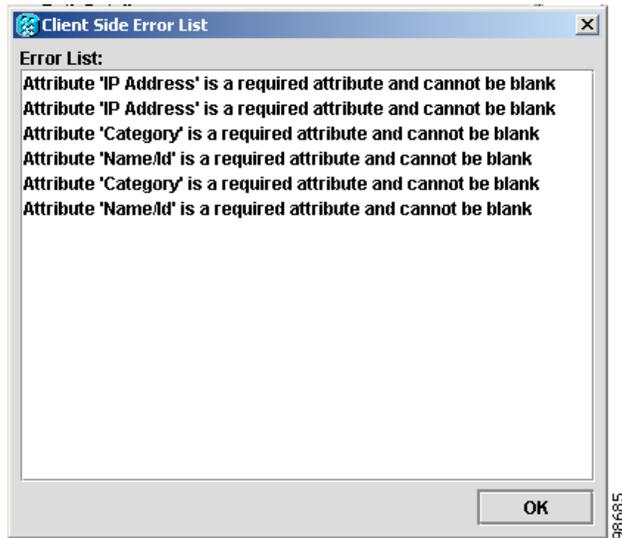
- [Client-Side Error Handling, page 2-99](#)
- [Server-Side Error Handling, page 2-100](#)

Client-Side Error Handling

Client-side error handling validates user input before sending the new input to the target configuration.

Client-side error handling is initiated when you click the OK or Apply button in the Application pane. The validation includes checks for missing required fields, duplicate keys, field validation, and value validation.

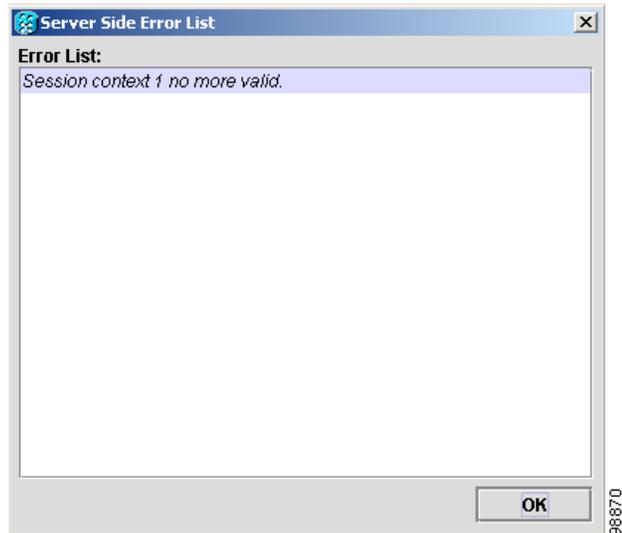
Any errors detected during validation appear in a Client Side Error List dialog box (see [Figure 2-10](#)). When an item in the Client Side List dialog box is chosen, the item changes to italicized and the appropriate row in the Application table becomes active, allowing you to make the required changes.

Figure 2-10 Client Side Error List Dialog Box

Server-Side Error Handling

Server-side error handling checks the target configuration sent to the router. Error handling includes checks for connection and configuration errors. You can initiate server-side error handling from the following methods:

- After the client-side error handling is completed, you can click the OK or Apply button in the Application pane. See the “[Configuration Desktop Application Buttons](#)” section on page 2-96 for information on the OK and Apply buttons. If there are errors, they appear in a Server-Side Error List dialog box with recommendations on how to resolve the errors (see [Figure 2-11](#)).

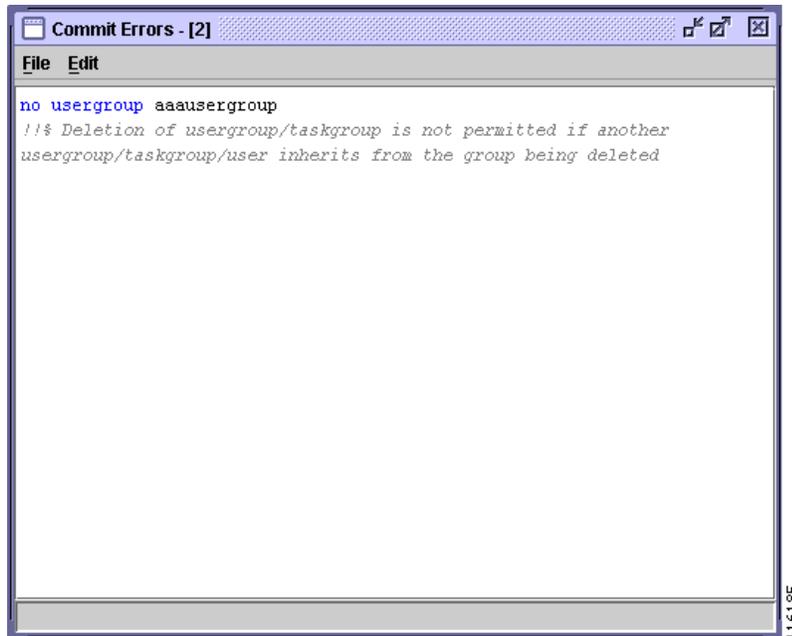
Figure 2-11 Server Side Error List Dialog Box

- When a configuration commit is requested, you can click the Commit icon on the Configuration Desktop toolbar (see [Figure 2-2](#)).
 - If the configuration was set using the configuration applications and there are errors, a Commit Error List dialog box appears with a list of the errors and recommendations on how to resolve the errors (see [Figure 2-9](#)). The commit has failed.
 - If the configuration was set using the Configuration Editor and there are errors, the errors appear in a Commit Errors text editor in CLI format (see [Figure 2-12](#)). See the “[Managing with Text Editor](#)” section on page 2-101 for information on the Text Editor. The commit has failed.



Note If a commit fails, the target configuration is not affected (the target configuration buffer is not cleared), allowing you to modify the target configuration then recommit it.

Figure 2-12 Commit Errors in CLI Format



Managing with Text Editor

A general Text Editor application is available in the Configuration Desktop and displays configuration information in CLI format (see [Figure 2-13](#)).

These sections describe how to manage the Text Editor:

- [Text Editor Overview, page 2-102](#)
- [Text Editor Menu Bar Options, page 2-103](#)
- [Launching the Text Editor, page 2-103](#)
- [Loading a Configuration in the Text Editor, page 2-104](#)
- [Undoing and Redoing the Last Task in the Text Editor, page 2-105](#)

- [Printing the Contents of the Text Editor, page 2-105](#)
- [Saving the Content of the Text Editor, page 2-106](#)
- [Cutting, Copying, and Pasting Text in the Text Editor, page 2-106](#)

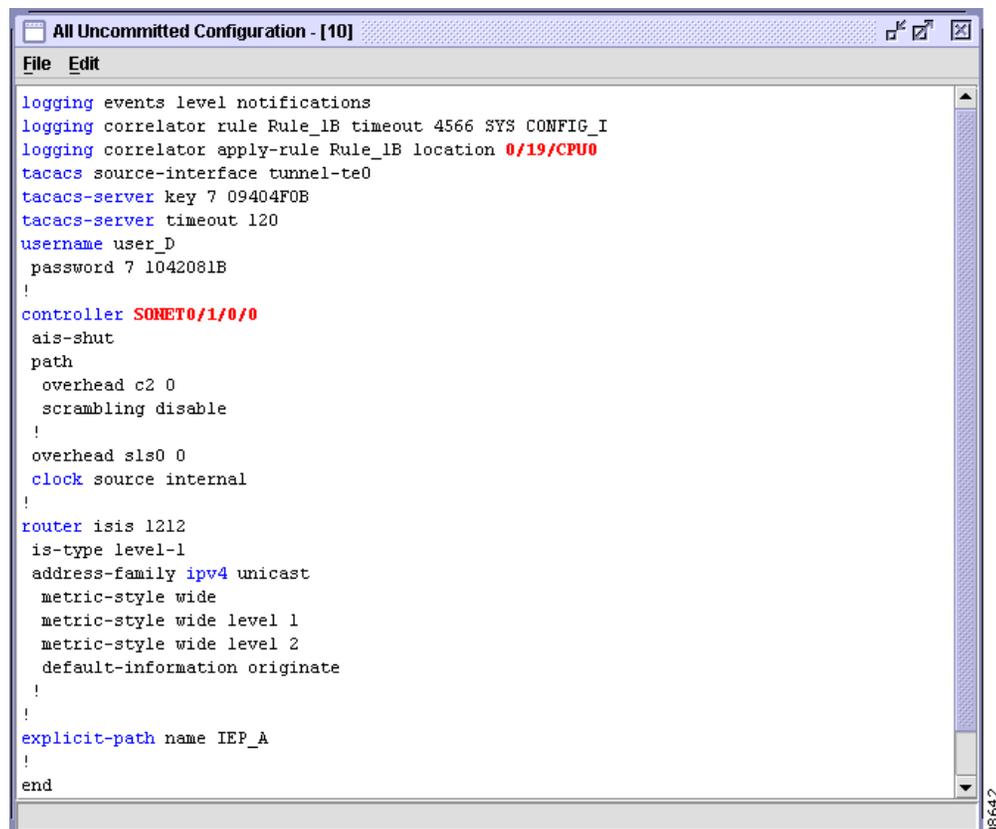
Text Editor Overview

The general Text Editor application (see [Figure 2-13](#)) provides features that are common in all text editors in the CWI. You can perform the following common functions:

- Use CLI keyword highlighting
- Load the saved text
- Save the contents of the Text Editor
- Print the contents of the Text Editor
- Cut, copy, and paste in the Text Editor
- Copy text into the Text Editor
- Undo and redo the last task

The Configuration Editor and Replace Configuration Editor are similar to the general Text Editor application.

Figure 2-13 Text Editor



Related Topics

- [Chapter 3, “Configuring with the Configuration Editor”](#)
- [Chapter 4, “Configuring with the Replace Configuration Editor”](#)

Text Editor Menu Bar Options

The Text Editor menu bar provides a list of options available in the Text Editor as listed in [Table 2-14](#).

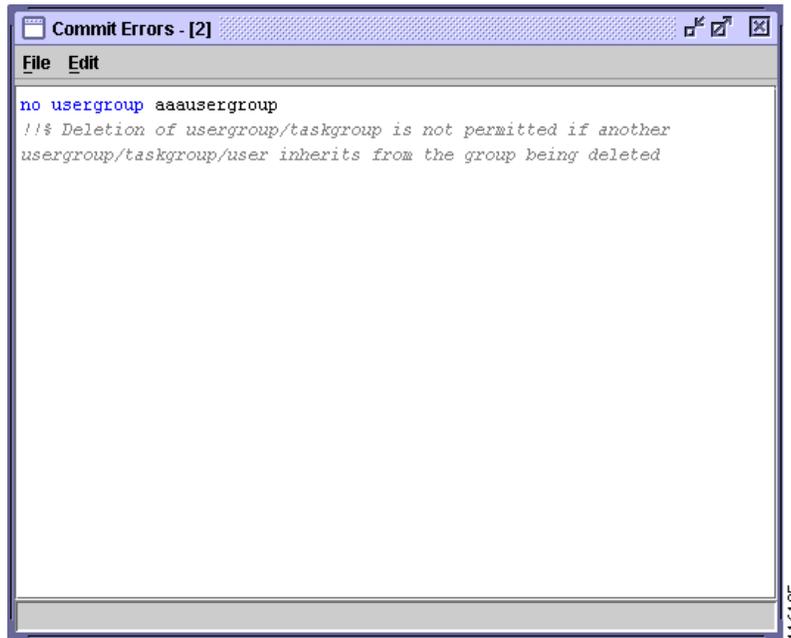
Table 2-14 Text Editor Menu Bar Options

| Menu-Bar Option | Task |
|-----------------|---|
| File | |
| Load | Loads a chosen configuration into the Text Editor (available when the Text Editor is opened using the Configuration Applications icon in the Configuration Applications Tree). See the “Loading a Configuration in the Text Editor” section on page 2-104. |
| Save | Saves the contents of the Text Editor to a text file (*.txt). The first time the Save option is chosen, a filename and location must be entered. For each subsequent time, the content is automatically saved to the file and location provided the first time the Save option was used. For a procedure, see the “Saving the Content of the Text Editor” section on page 2-106. |
| Save As | Saves the contents of the Text Editor to a text file (*.txt). You can enter a new filename and location each time the Save As option is chosen. For a procedure, see the “Saving the Content of the Text Editor” section on page 2-106. |
| Edit | |
| Undo | Undoes the last task in the Text Editor. See the “Undoing and Redoing the Last Task in the Text Editor” section on page 2-105. |
| Redo | Allows you to redo a task that was undone using the Undo tool. See the “Undoing and Redoing the Last Task in the Text Editor” section on page 2-105. |

Launching the Text Editor

To launch the Text Editor, choose one of the following options:

- Click the Configuration Applications icon in the Configuration Applications Tree. The Text Editor opens and displays the uncommitted target configuration. For a procedure on how to display an uncommitted configuration using the Text Editor, see the *Cisco Craft Works Interface Configuration Guide*, Chapter 2, *Managing Router Configuration with CWI*.
- When there is an automatic configuration change notification from another user logged in to the same router, see the [“Configuration Change Handling”](#) section on page 2-96.
- When the Configuration Editor or Replace Configuration Editor is used to configure the router and there is a commit failure, a Commit Errors text editor appears with the errored target configuration displayed (see [Figure 2-14](#)). See [Chapter 3, “Configuring with the Configuration Editor,”](#) for information on configuring the router using the Configuration Editor.

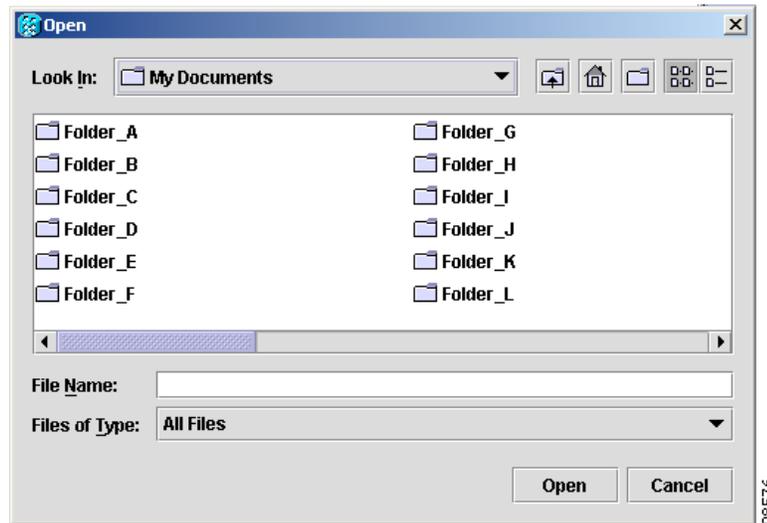
Figure 2-14 Commit Errors Text Editor

Loading a Configuration in the Text Editor

To load a file in the Text Editor from a previously saved text file to load into the Text Editor, perform the following steps:

-
- Step 1** Choose the Text Editor in the Configuration Applications pane.
 - Step 2** Choose **File > Load**. The Open dialog box appears (see [Figure 2-15](#)).

Figure 2-15 Open Dialog Box (Text Editor)



- Step 3** Enter a filename in the File Name field.
- Step 4** Click **Open**. The chosen file is loaded into the Text Editor.

Undoing and Redoing the Last Task in the Text Editor

To undo or redo the last task in the Text Editor, perform the following steps:

- Step 1** Choose the Text Editor in the Configuration Applications pane.
- Step 2** Choose **Edit > Undo**. Or press **Ctrl-Z**. If the last task in the Text Editor is undone, the Redo menu option can be chosen.
- Step 3** Choose **Edit > Redo**. Or press **Ctrl-Shift-Z** to redo the task removed from the Text Editor using the Undo menu option. The task is redone into the Text Editor.

Printing the Contents of the Text Editor

To print the contents of the Text Editor, perform the following steps:

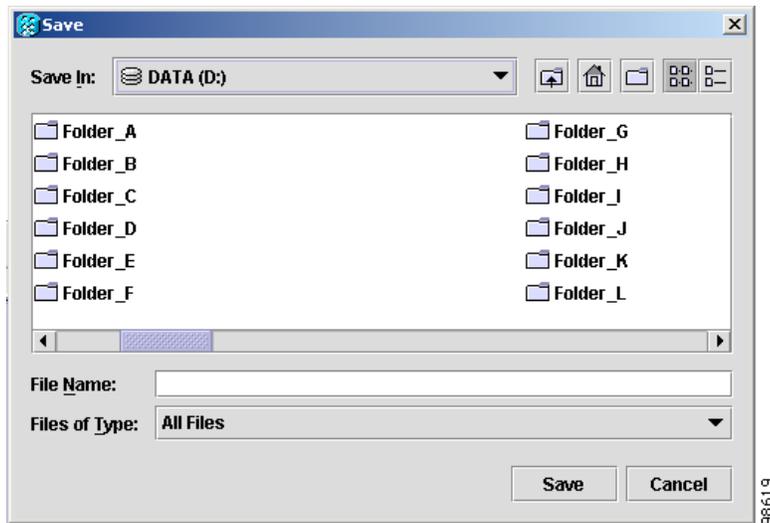
- Step 1** Choose the Text Editor in the Configuration Applications pane.
- Step 2** To open the Print dialog box, choose one of the following options:
- Click the **Print** icon (see [Figure 2-2](#)) in the Configuration Desktop.
 - Choose **File > Print**.
- Step 3** Click **OK**. The Text Editor content is printed.

Saving the Content of the Text Editor

To save the content of the Text Editor, perform the following steps:

-
- Step 1** Choose the Text Editor in the Configuration Applications pane.
 - Step 2** Choose **File > Save** or **File > Save As**. For a definition of the Save option and the Save As option, see [Table 2-14](#). The Save dialog box is displayed (see [Figure 2-16](#)).

Figure 2-16 Save Dialog Box (Text Editor)



- Step 3** Enter a filename in the File Name field.
 - Step 4** Choose a location from the Save In drop-down arrow.
 - Step 5** Click **Save**. The content is saved.
-

Cutting, Copying, and Pasting Text in the Text Editor

You can copy or cut text from the Text Editor to the Clipboard, and paste Clipboard contents into the Text Editor.

To cut text in the Text Editor, perform the following steps:

-
- Step 1** Choose the Text Editor in the Configuration Applications pane.
 - Step 2** Select the text to cut in the Text Editor application.

- Step 3** Choose one of the following options:
- Click the **Cut** icon (see [Figure 2-2](#)).
 - Press **Ctrl-X**.

The text is copied to the Clipboard and is removed from the Text Editor.

Procedure

To copy text, perform the following steps:

- Step 1** Choose the Text Editor in the Configuration Applications pane.
- Step 2** Select the text to copy in the Text Editor application.
- Step 3** Choose one of the following options:
- Click the **Copy** icon (see [Figure 2-2](#)).
 - Press **Ctrl-C**.

The text is copied to the Clipboard.

Procedure

To paste text, perform the following steps:

- Step 1** Choose the Text Editor in the Configuration Applications pane.
- Step 2** Select the location where you want the copied text in the Text Editor application.
- Step 3** Choose one of the following options:
- Click the **Paste** icon (see [Figure 2-2](#)).
 - Press **Ctrl-V**.

The text is copied in to the specified location in the Text Editor application.

Common Activities in Configuration Desktop Applications

These sections provide procedures common in the Configuration Desktop:

- [Starting Applications, page 2-108](#)
- [Closing Applications, page 2-108](#)
- [Managing Records, page 2-109](#)
- [Loading Tables \(by Request\), page 2-116](#)
- [Choosing Tabs, page 2-117](#)
- [Configuration Controls Tasks, page 2-118](#)

Procedures that are specific to an application are provided with the application descriptions. See the *Cisco Craft Works Interface Configuration Applications Reference Guide* for application descriptions.

See the “[Common Activities in the CWI Desktop Applications](#)” section on page 1-64 for activities that are common in the CWI Desktop and the Configuration Desktop.

Related Topics

- [Sorting Columns](#), page 1-67
- [Moving Columns](#), page 1-67
- [Filtering Records](#), page 1-68
- [Removing Record Filtering](#), page 1-68
- [Finding Text in the Application Table](#), page 1-69
- [Exporting Table Data](#), page 1-69
- [Printing Data](#), page 1-71
- [Setting Preferences](#), page 1-71
- [Cascading Applications](#), page 1-74
- [Minimizing Applications](#), page 1-74
- [Maximizing Applications](#), page 1-74
- [Choosing Applications in the CWI Application Pane](#), page 1-74

Starting Applications

To start applications in the Configuration Desktop, choose one of the following options:



Note

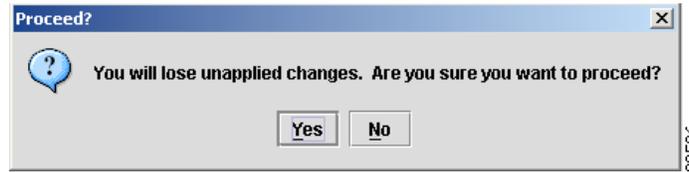
All applications, with the exception of the Replace Configuration Editor, can be opened from the Configuration Desktop menu and the Configuration Applications tree.

- Choose an application to start from the Configuration Desktop menu. The chosen application is opened in the Configuration Applications pane (see [Figure 2-5](#)).
- Double-click an object from the Configuration Applications tree. The chosen application is opened in the Configuration Applications pane (see [Figure 2-5](#)).
- Click the **Replace Configuration Editor** icon to start the application from the Configuration Desktop toolbar. Click the **View Uncommitted Config** icon to display an uncommitted configuration from the Configuration Desktop toolbar. For more information, see the *Cisco Craft Works Interface Configuration Guide*.

Closing Applications

To close applications in the Configuration Applications pane, choose one of the following options:

- Choose **Window > Close** to close an application.
- Click the Close button on the application title bar to close the active application.
- Choose **Window > Close All** to open the Proceed dialog box (see [Figure 2-17](#)). Click **Yes** to close all applications.

Figure 2-17 Proceed Dialog Box

For definitions of the Close option and Close All option, see [Table 2-8](#).

Managing Records

All configuration applications contain tables with records specific to the application.

These sections describe how to manage records in a table:

- [Adding Records](#), page 2-109
- [Cloning Records](#), page 2-110
- [Deleting Records](#), page 2-111
- [Setting Defaults](#), page 2-112
- [Copying a Row](#), page 2-113
- [Pasting a Row](#), page 2-113
- [Undoing and Redoing the Last Task](#), page 2-114
- [Moving Records](#), page 2-114
- [Editing Records](#), page 2-115

Adding Records

When adding records, the new record is added after the chosen record in the table, or, if no record is chosen, the new record is added at the end of the table.

To add records in an Application table, perform the following steps:

-
- Step 1** Choose an application that supports adding records in the Configuration Applications tree. Choose one of the following options:
- Double-click an application from the folder.
 - Right-click an application from the folder and choose **Launch**.
 - Choose the application from the Tools menu.
- Step 2** Click the **Add Record** tool (see [Figure 2-6](#)). An empty record is added to the Application table.
-

Cloning Records

Records can be cloned in an Application table. There are two types of cloning: Clone and Clone Special. There must be at least one record in the application table to enable the Clone Record.

The Clone Record feature duplicates a record and adds the record after the cloned record in the Application table.

To clone a record using Clone Record, perform the following steps:

-
- Step 1** Choose an application that supports cloning records in the Configuration Applications tree. Choose one of the following options:
- Double-click an application from the folder.
 - Right-click an application from the folder and choose **Launch**.
 - Choose the application from the Tools menu.
- Step 2** Choose a record to clone in the Application table.
- Step 3** Click the **Clone Record** icon (see [Figure 2-6](#)). A cloned record is added to the Application table below the record chosen in Step 2.
-

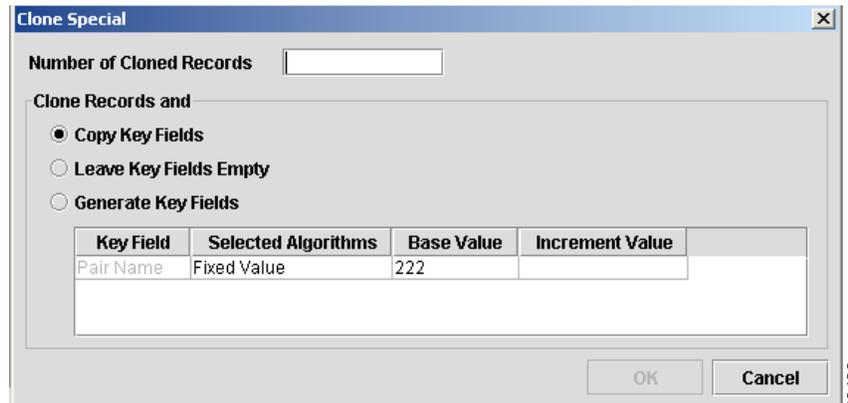
Procedure

The Clone Special Record allows you to choose the number of records and the fields to clone. The new records are added after the cloned record in the table.

To clone a record using Clone Special Record, perform the following steps:

-
- Step 1** Choose an application that supports cloning records in the Configuration Applications tree. Choose one of the following options:
- Double-click an application from the folder.
 - Right-click an application from the folder and choose **Launch**.
 - Choose the application from the Tools menu.
- Step 2** Choose a row to clone in the Application table.
- Step 3** Click the **Clone Special Record** icon (see [Figure 2-6](#)) to open the Clone Special dialog box (see [Figure 2-18](#)).

Figure 2-18 Clone Special Dialog Box



- Step 4** Enter the number of records to clone in the Number of Cloned Records field. The maximum number of cloned records is the current application size subtracted from the maximum number of records in the table.
- Step 5** Choose one of the following options:
- Click the **Copy Key Fields** radio button to copy the key fields.
 - Click the **Leave Key Fields Empty** radio button to leave the key fields empty.
 - Click the **Generate Key Fields** radio button to modify the key fields. For each Key Field, it is optional to modify any of the following fields:
 - From the Selected Algorithms column, click the drop-down arrow and choose an algorithm.
 - Double-click the Base Value field and enter a new base value.
 - Double-click the Increment Value and enter an increment value.
- Step 6** Click **OK**. The cloned records are added to the Application table below the record chosen in [Step 2](#).

Deleting Records

You can delete the chosen record or multiple records in the Application table. There must be at least one record in the application table to enable the Delete Record icon.

To delete records, perform the following steps:

- Step 1** Choose an application that supports deleting records in the Configuration Applications tree. Choose one of the following options:
- Double-click an application from the folder.
 - Right-click an application from the folder and choose **Launch**.
 - Choose the application from the Tools menu.
- Step 2** Choose the records to delete in the Application table from the following options:
- Click a record to choose one record in the Application table.
 - Press **Ctrl** and click the desired records to choose random multiple records in the Application table.

- Press **Shift** and click the first desired record in the Application table. For serial multiple records, choose the last desired record.
- Step 3** Click the **Delete Record** icon. The chosen record or multiple records are deleted from the Application table.
-

Setting Defaults

You can set the defaults values for the chosen record in the Application pane. Setting defaults applies to fields that have default values. Fields with default values are highlighted in green when the value is changed to a value that is not the default.

To set defaults, perform the following steps:

- Step 1** Choose an application that supports setting defaults in the Configuration Applications tree. Choose one of the following options:
- Double-click an application from the folder.
 - Right-click an application from the folder and choose **Launch**.
 - Choose the application from the Tools menu.
- Step 2** Choose a record from the Application table.
- Step 3** Select the field you want to reset to the default value in the Application pane. If you want to reset all fields in the record, select any field.
- Step 4** Click the **Set Default(s)** icon (see [Figure 2-6](#)) to open the Default dialog box (see [Figure 2-19](#)).

Figure 2-19 Default Dialog Box



- Step 5** Choose one of the following options to set the defaults:
- Click **All** to reset all fields in the active record to the default values.
 - Click **Field with focus** to reset only the chosen field to the default value.

The default is applied to the records or the chosen field in the record.

Copying a Row

You can copy the chosen row to the Clipboard. Only one record can be copied at a time. There must be at least one record in the application table to enable the Copy Record icon.

To copy a row, perform the following steps:

-
- Step 1** Choose an application that supports copying records in the Configuration Applications tree. Choose one of the following options:
- Double-click an application from the folder.
 - Right-click an application from the folder and choose **Launch**.
 - Choose the application from the Tools menu.
- Step 2** Choose a record in the Application table.
- Step 3** Click the **Row Copy** icon (see [Figure 2-6](#)). The record is copied to the Clipboard, and the Row Paste and Row Paste Special icons become available.
-

Pasting a Row

You can paste a copied row into the Application table. There are two types of pasting: Row Paste and Row Paste Special. There must be a record on the Clipboard for the Clone Record feature to be enabled. See the “[Copying a Row](#)” section on page 2-113 for information on copying a record to the Clipboard. See the [Application Toolbar](#), page 2-94 for definitions.

**Note**

Row Paste and Row Paste Special tools do not overwrite key fields. Both tools are available only after the Row Copy tool has been clicked.

To paste a row using Row Paste, perform the following steps:

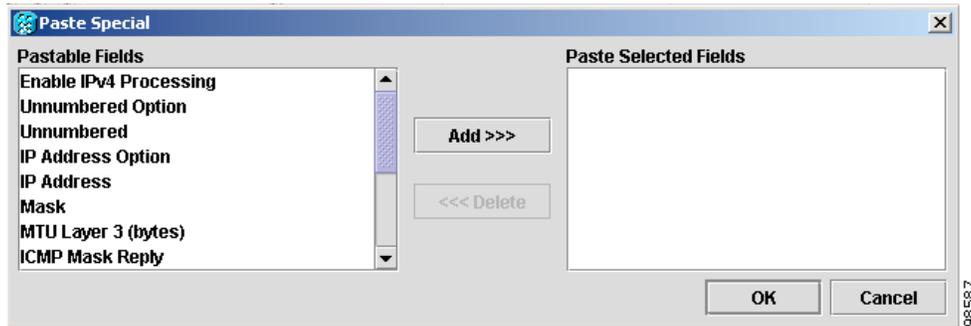
-
- Step 1** Ensure that the Row Paste tool is available.
- Step 2** Choose a row with values entered in the fields or a new empty row in the Application table.
- Step 3** Click the **Row Paste** icon (see [Figure 2-6](#)). The record is copied in the Application table.
-

Procedure

To paste a row using Row Paste Special, perform the following steps:

-
- Step 1** Ensure that the Row Paste Special tool is available.
- Step 2** Choose a row with values entered in the fields or a new empty row in the Application table.
- Step 3** Click the **Row Paste Special** icon (see [Figure 2-6](#)) to open the Paste Special dialog box (see [Figure 2-20](#)).

Figure 2-20 Paste Special Dialog Box



The Pastable Fields pane contains all the fields that can be copied into a new record in the Application table.

- Step 4** Select the fields to paste in a new record in the application table from the following options:
- Select an item to choose one field in the Pastable Fields pane.
 - Press **Ctrl** and click the desired items to choose random multiple fields in the Pastable Fields pane.
 - Press **Shift** and click the first desired item, then choose the last desired item to choose serial multiple fields in the Pastable Fields pane.

The chosen fields in the Pastable Fields pane are highlighted.

- Step 5** Click **Add**. The chosen fields are moved to the Paste Selected Fields pane.

- Step 6** Click **OK**. The chosen fields are pasted into a new record in the Application table.

Undoing and Redoing the Last Task

You can undo the last task performed in the active application. Click the **Undo Copy** icon (see [Figure 2-6](#)) to undo the last task. Once the undo task has been performed, the Redo Copy icon becomes available allowing you to redo the task. Click the **Redo** icon (see [Figure 2-6](#)) to redo the task.

Moving Records

You can move records up or down and in sequence in the Application table. The following applications support moving records because these applications run matching operations sequentially through the records:

- ACL
- Routing Policy
- QoS
- AAA

To move records, perform the following steps:

-
- Step 1** Choose an application that supports moving records in the Configuration Applications tree. Choose one of the following options:
- Double-click an application from the folder.
 - Right-click an application from the folder and choose **Launch**.
 - Choose the application from the Tools menu.
- Step 2** Choose a record in the Application table.
- Step 3** Click the blue scroll arrows on the left side of the Application table.

Each time you click the blue scroll arrow, the chosen record moves up or down one row in the Application table. If the record contains a sequence number, the sequence number is automatically modified based on location in the table relative to other records in the same list.

Editing Records

You can edit rows in an Application table along with editing single and multiple records.

To edit a single record, perform the following steps:

-
- Step 1** Choose an application that supports editing records in the Configuration Applications tree. Choose one of the following options:
- Double-click an application from the folder.
 - Right-click an application from the folder and choose **Launch**.
 - Choose the application from the Tools menu.
- Step 2** Choose a record in the Application table. The Application pane displays the data for the chosen record.
- Step 3** Edit the desired fields in the Application pane. Each field is updated in the Application table when you press **Tab** or the pointer is moved to another field (the field loses focus).

To edit the table records in the Application table:

- a. Double-click the table cell. Enter the new value.
 - b. Press **Tab** or use the pointer to move between table cells.
-

Procedure

Multiple record editing allows you to edit multiple records when the selected fields allow identical values.

**Note**

Multiple record editing cannot be done in the Application table but can be done in the Application pane.

To edit multiple records, perform the following steps:

-
- Step 1** Choose an application that supports editing records in the Configuration Applications tree. Choose one of the following options:
- Double-click an application from the folder.
 - Right-click an application from the folder and choose **Launch**.
 - Choose the application from the Tools menu.
- Step 2** Choose the records to edit in the Application table. Choose one of the following options:
- Choose one record.
 - Press **Ctrl** and click the desired records to choose random multiple records.
 - Press **Shift** and click the first desired record. Select the last desired record to choose serial multiple records.
- The selected records are highlighted, and the Application pane displays the data for the first chosen record.
- Step 3** Edit the desired fields in the Application pane. Each field is updated in the Application table when you press **Tab** or the pointer is moved to another field (the field loses focus).
-

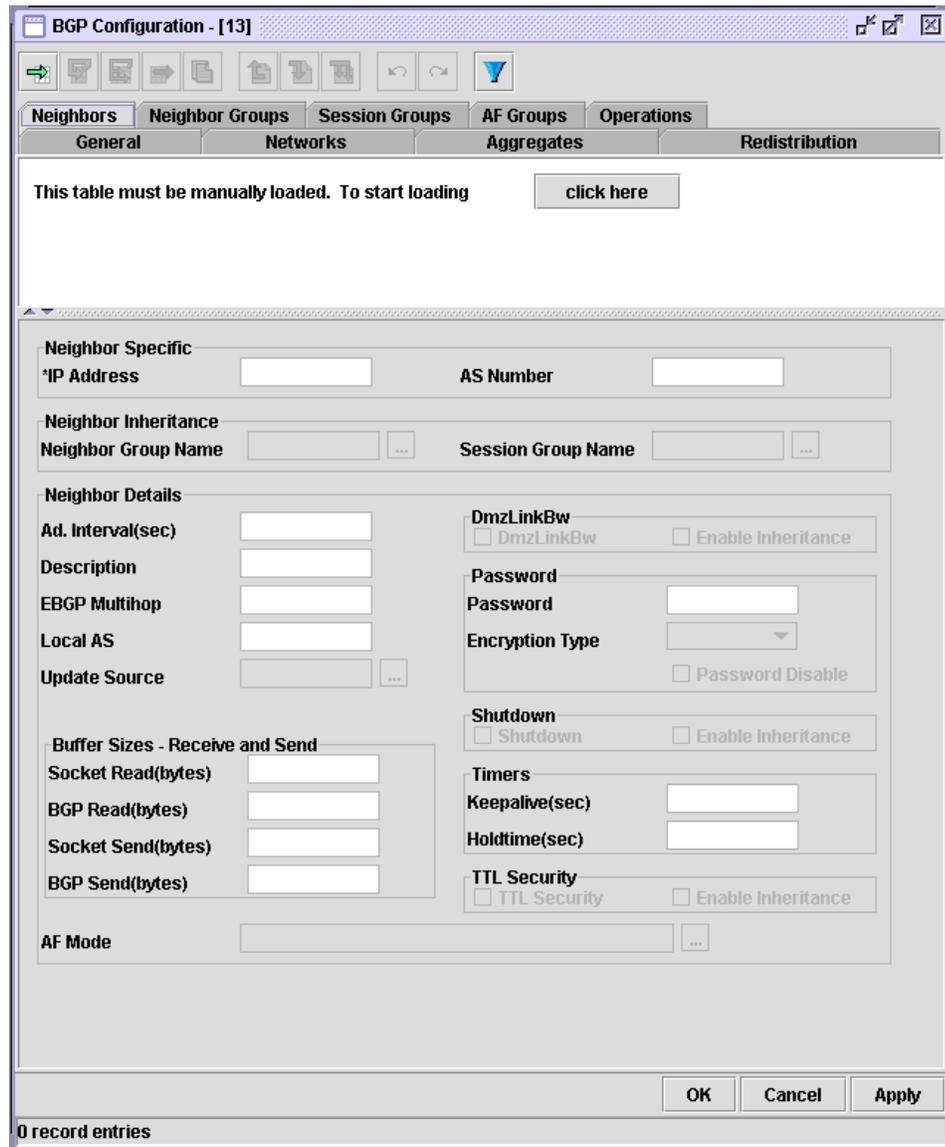
Loading Tables (by Request)

When a configuration application is opened, the existing records (if any) for the application are displayed in the Application table. For some cases, the loading of data into tables must be triggered manually. Loading tables by request keeps you from having to wait for data to load if a large amount of information exists for the table.

To load tables, perform the following steps:

-
- Step 1** Choose an application that supports table loading in the Configuration Applications tree. Choose one of the following options:
- Double-click an application from the folder.
 - Right-click an application from the folder and choose **Launch**.
 - Choose the application from the Tools menu.
- An example of an application with the loading tables feature is displayed (see [Figure 2-21](#)).
- Step 2** Ensure that the application is the active application in the Configuration Applications pane.

Figure 2-21 Loading Tables Example

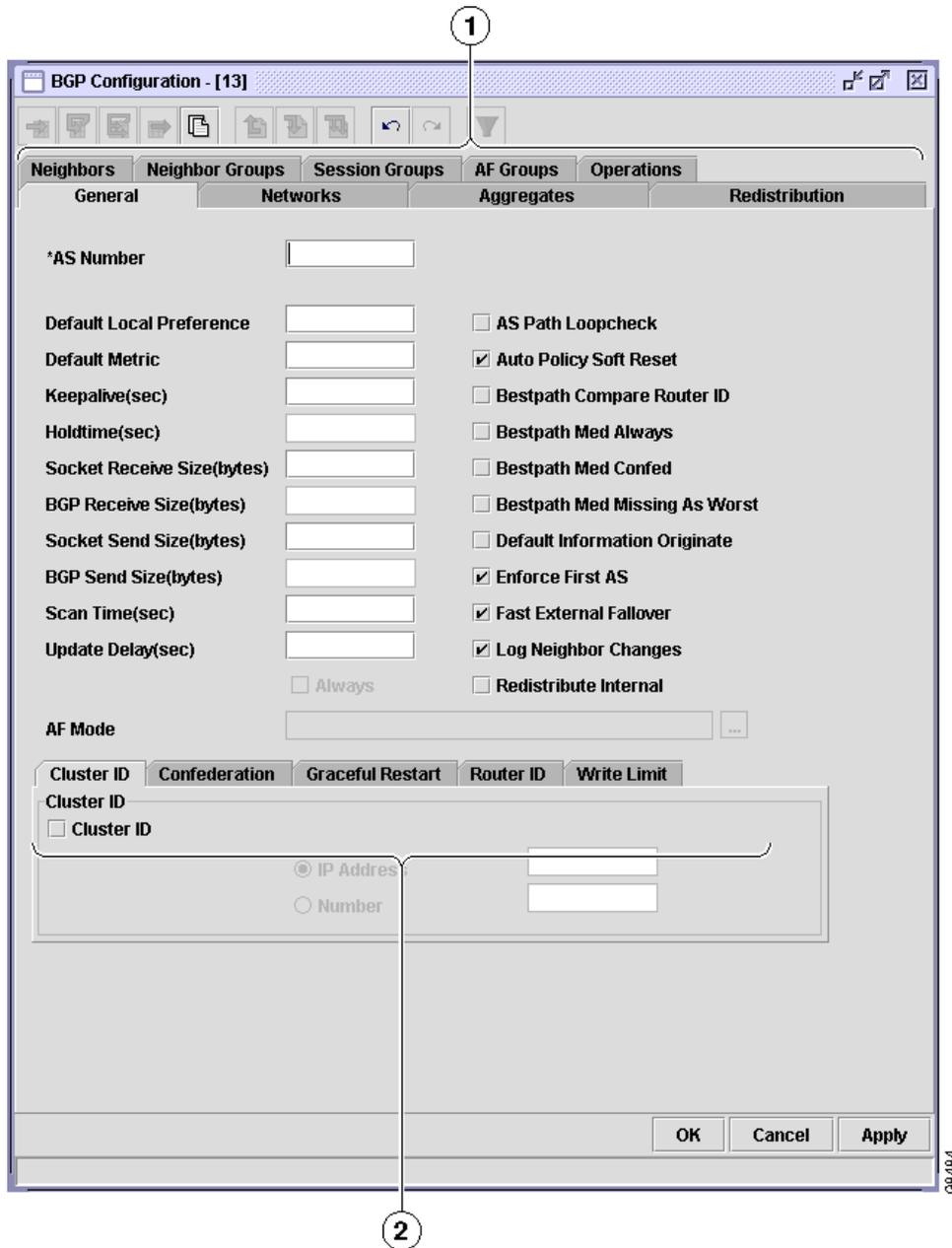


Step 3 Click the **click here** button in the Application table. The records are loaded into the Application table.

Choosing Tabs

Multiple functions are often combined within a single configuration application, and are accessible through multiple tabs in the Application pane. To display the information in a tab, click the tab. Some applications also contain subtabs, which are within a tab and contain a subset of functions related to the tab. An example of a configuration application with tabs and subtabs is displayed in [Figure 2-22](#).

Figure 2-22 Multiple Tabs in a Configuration Application



| | | | |
|---|------|---|---------|
| 1 | Tabs | 2 | Subtabs |
|---|------|---|---------|

Configuration Controls Tasks

The configuration controls provide configuration functionality that is implemented on the router. These controls are located on the Configuration Desktop toolbar. See the [“Configuration Controls Toolbar Icons”](#) section on page 2-94 for descriptions of the configuration controls.

These sections describe how to use the configuration controls:

- [Locking and Unlocking a Router, page 2-119](#)
- [Loading a Configuration from the Configuration Desktop, page 2-120](#)
- [Saving a Configuration from the Configuration Desktop, page 2-121](#)
- [Committing a Configuration, page 2-121](#)
- [Clearing a Configuration, page 2-122](#)
- [Rolling Back a Configuration, page 2-123](#)

Locking and Unlocking a Router

A router can be locked or unlocked. Locking the router allows you to commit a configuration to the router while preventing other users from committing a configuration. Unlocking a router allows all users to commit a configuration. Locking prevents multiple users from trying to commit a configuration to the router at the same time.

To lock a router, perform the following steps:

-
- Step 1** Ensure that the router is unlocked. The Lock/Unlock tool indicates an open padlock if the router is unlocked.
- Step 2** Click the **Lock** icon (see [Figure 2-2](#)) in the Configuration Desktop. An Operation Succeeded dialog box (see [Figure 2-23](#)) appears and the router is locked. The Lock/Unlock tool indicates a closed padlock.

Figure 2-23 Operation Succeeded Dialog Box



- Step 3** Click **OK**.
-

Procedure

Only the user that locked the router can unlock the router.

To unlock a router, perform the following steps:

-
- Step 1** Ensure that the router is locked. The Lock/Unlock tool indicates a closed padlock if a user has locked the router.
- Step 2** Click the **Unlock** icon (see [Figure 2-2](#)) in the Configuration Desktop.
- Step 3** An Operation Succeeded dialog box (see [Figure 2-24](#)) appears and the router is unlocked. The Lock/Unlock tool indicates an open padlock.

Figure 2-24 Operation Succeeded Dialog Box

Step 4 Click **OK**.

Loading a Configuration from the Configuration Desktop

You can load a configuration file saved on the router. The loaded configuration merges with the target configuration, with the contents from the loaded configuration file replacing any conflicting information in the target configuration.

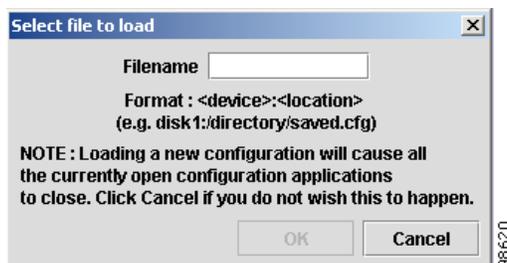


Caution

This procedure automatically closes all open applications in the Configuration Applications pane before the file is loaded. The loaded configuration file overwrites all current uncommitted configuration changes.

To load a configuration, perform the following steps:

Step 1 Click the **Load** icon (see [Figure 2-2](#)) in the Configuration Desktop to open the Select file to load dialog box (see [Figure 2-25](#)).

Figure 2-25 Select File to Load Dialog Box

Step 2 Enter the name and location for the file to be loaded in the Filename field.

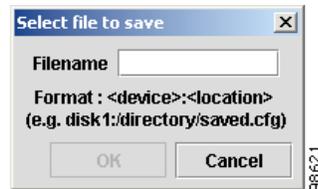
Step 3 Click **OK**. The file is loaded.

Saving a Configuration from the Configuration Desktop

To save a target configuration to the router, perform the following steps:

- Step 1** Click the **Save** icon (see [Figure 2-2](#)) in the Configuration Desktop to open the Select file to save dialog box (see [Figure 2-26](#)).

Figure 2-26 Select File to Save Dialog Box



- Step 2** Enter the name and location for the file to be saved on the router in the Filename field.
- Step 3** Click **OK**. The target configuration is saved to the router.

Committing a Configuration

You can commit the target configuration to the running configuration on the router.

The Commit tool is available only when some configuration application changes have been applied. When the configuration applications are used to configure the router, the application icons in the Configuration Applications tree indicate which applications have uncommitted changes. See the [“Configuration Applications Tree”](#) section on [page 2-84](#) for information on the Configuration Applications Tree icons.



Note

Uncommitted changes to the target configuration using the configuration applications, Text Editor, or Replace Configuration Editor are indicated by the Configuration Applications icon in the Configuration Applications Tree. The icon indicates that there is an uncommitted target configuration.



Note

If the target configuration was created or modified using the Text Editor or the Replace Configuration Editor, the application icons in the Configuration Applications Tree do not indicate that changes were made. For example, if alarm administration parameters were modified using the Text Editor application, the Alarm Administration application icon in the Configuration Application Tree would not indicate that the application contained an uncommitted configuration, but the Configuration Application icon would indicate that there is an uncommitted configuration.

To commit a configuration, perform the following steps:

- Step 1** Click the **Commit** icon (see [Figure 2-2](#)) in the Configuration Desktop. A **commit** command is sent to the router.
- Step 2** If the commit is successful, an Operation Succeeded dialog box (see [Figure 2-27](#)) is displayed.

Figure 2-27 Operation Succeeded Dialog Box

If the commit fails, errors are displayed. Any errors resulting from a commit command are displayed in following formats:

- If the Configuration Editor was used to configure the router, the errors are displayed in a Commit Errors text editor in command-line interface (CLI) format (see [Figure 2-12](#)). To fix any commit errors, use the Configuration Editor to modify the configuration accordingly.
- If the Configuration Applications were used to configure the router, the errors are displayed in a Commit Error List dialog box (see [Figure 2-9](#)). To fix any commit errors, use the Configuration Applications to modify the configuration accordingly.

See the “[Server-Side Error Handling](#)” section on page 2-100 for details on error handling.

Step 3 Click **OK**. The configuration has been committed.

Clearing a Configuration

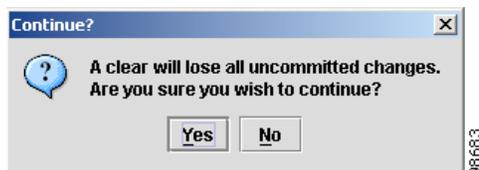
To clear the target configuration, perform the following steps:



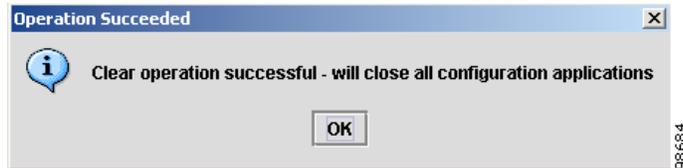
Caution

This procedure automatically closes all open applications in the Configuration Applications pane.

Step 1 Click the **Clear** icon (see [Figure 2-2](#)) in the Configuration Desktop to open the Continue dialog box (see [Figure 2-28](#)).

Figure 2-28 Continue Dialog Box

Step 2 Click **Yes** to open the Operation Succeeded dialog box (see [Figure 2-29](#)).

Figure 2-29 Continue Dialog Box

- Step 3** Click **OK**. The target configuration is deleted, and the configuration applications close.

Rolling Back a Configuration

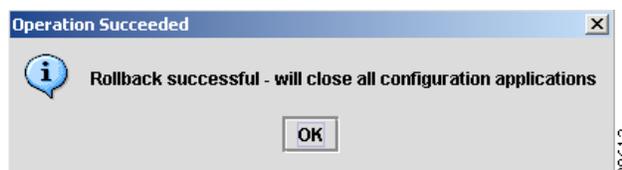
You can roll back the current configuration to a configuration, that was used in a previous commit operation. Each previous commit operation creates a checkpoint that is stored on the router. You can choose from the list of checkpoints, which provide the username, date, and time of the commit operation.

To roll back a configuration, perform the following steps:

- Step 1** Click the **Rollback** icon (see [Figure 2-2](#)) in the Configuration Desktop.
- When the Rollback tool is chosen, a query is done of the list of rollback checkpoints. The available rollback checkpoints appear in a Select Rollback Point dialog box (see [Figure 2-30](#)).

Figure 2-30 Select Rollback Point Dialog Box

- Step 2** Choose a rollback checkpoint from the Select Rollback Point dialog box.
- Step 3** Click **OK**. The Operation Succeeded dialog box (see [Figure 2-31](#)) appears.

Figure 2-31 Operation Succeeded Dialog Box

- Step 4** Click **OK**. The current configuration is replaced with the checkpoint configuration, and all applications in the Configuration Applications pane close.

