

## Alcatel-Lucent

WaveStar<sup>®</sup> CIT

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# About this document

#### Purpose

This user guide is primarily intended to explain and describe the functions of the *WaveStar*<sup>®</sup> CIT Network View to manage your network.

#### **Conventions used**

The following conventions are used in this document.

• This font indicates buttons, icons, or menu items.

Example:

#### $\textbf{Administration} \rightarrow \textbf{Data Communications}$

• This font indicates window and screen names or special emphasis.

Example:

The CIT Data Communication screen appears.

- Underlined phrases indicate hyperlinks to other text in the document or another step in the procedure.
- When describing shortcut key sequences:
  - A plus sign (+) between the two keys indicates that the first key should be held down while the second key is struck. For example "Alt+F" means hold down the "Alt" key and strike the "F" key simultaneously.
  - A comma between characters means that a specific key should be struck after pressing and releasing the preceding keys. For example, "Alt+F, t" means hold down the "Alt" key and strike the "F" key simultaneously, then release both keys and strike the "t" key.
  - Note that characters are case sensitive for all shortcut key sequences. Menu command descriptions include information about shortcut key sequences and toolbar icons where they are available. If no shortcut key sequence or toolbar icon is listed then there are none available for that command.

When describing actions to be performed:

- Boldface type is used to indicate buttons within a dialog box which offer a choice between two or more options.
- The arrow symbol (→) between two items means: select the indicated menu bar command and then the indicated sub-menu command. For example,
   Administration → Administer Views directs you to select the "Administer Views" sub-menu command after you select the "Administration" menu bar item.
- Important messages are displayed as follows:

**Important!** This is important information.

#### Login sessions

The *WaveStar*<sup>®</sup> CIT supports a single active Network View login session at any given time. From the single active *WaveStar*<sup>®</sup> CIT Network View window you can establish two login sessions to a particular network element, one system view login session and one TL1 view login session. However, you can establish simultaneous logins to different network elements. You can connect to another network element without disconnecting an active login session to a different network element.

#### Products the WaveStar® CIT supports

The following products are supported by the *WaveStar*<sup>®</sup> CIT:

- BWM (BandWidth Manager)
- SANE (2.5G, 10G, STM64)
- 1665/1850 (Alcatel-Lucent 1665 DMX, Alcatel-Lucent 1665 DMXtend, Alcatel-Lucent 1665 DMXplore, *Metropolis*<sup>®</sup> DMX press, Alcatel-Lucent 1850 TSS-5)
- UNITE (Alcatel-Lucent 1675 LambdaUnite MSS)

#### How to comment

To comment on this document, go to the Online Comment Form (http://infodoc.alcatellucent.com/comments/) or e-mail your comments to the Comments Hotline (comments@alcatel-lucent.com).

# 1 File and Edit menus

### Overview

#### Purpose

The purpose of this chapter is to provide descriptive and procedural information for the Network View File and Edit menus.

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## File menu

## Overview

#### Purpose

The purpose of this section is to provide descriptive and procedural information for the File menu.

#### Contents

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## File menu

### Purpose

Use the File menu sub-menus to save settings, login as a new user, and exit the Network View of the *WaveStar*<sup>®</sup> CIT.

#### Save settings

To save any changes you make to the views and preferences in your current session select File  $\rightarrow$  Save Settings.

The shortcut key sequence "Alt+F, t" will save view and preference settings.

#### Login as new user

Use this menu option to login to the *WaveStar*<sup>®</sup> CIT Network View as a different user. The current user will be logged off.

**Important!** This option will only be available if **Enable Wavestar CIT logins** was selected during the installation and there are no active System Views.

#### Exit

Use this procedure to exit the *WaveStar*<sup>®</sup> CIT. This closes all Network View, System View, and Online Help sessions.

## Procedure 1-1: Logging in as new user

#### Overview

Use this procedure to login to the *WaveStar*<sup>®</sup> CIT Network View as a different user. The current user will be logged off.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

**Important!** This option will only be available if **Enable Wavestar CIT logins** was selected during the installation and there are no active System Views.

Complete the following steps to login as a new user to the *WaveStar*® CIT Network View.

1 From the *WaveStar*<sup>®</sup> CIT Network View, select File  $\rightarrow$  Login as New User.

Shortcut The shortcut key sequence to login as a new user is "Alt+F, L".

Result: The Login to Wavestar CIT window opens.

2 In the *WaveStar*<sup>®</sup> CIT Login screen, enter a valid User ID and password.

**Important!** LUC01/LUC+01 and LUC02/LUC+02 are the default User ID/passwords for the *WaveStar*<sup>®</sup> CIT. It is highly recommended that you change these User IDs and passwords during your first session to preserve the security of your equipment. To change your *WaveStar*<sup>®</sup> CIT password, select **Administration**  $\rightarrow$  **Change Password** from the *WaveStar*<sup>®</sup> CIT Network View. For more information, see Procedure 4-1: "Change CIT Network View password" (p. 4-7)

User IDs must adhere to the following guidelines:

- User IDs must be one to ten alphanumeric characters in length.
- User IDs are case sensitive.

Passwords must adhere to the following guidelines:

- Passwords must be six to ten characters in length.
- Passwords must begin with a letter.

• Passwords must contain at least two non-alphabetic characters (numbers or symbols). At least one of the non-alphabetic characters must be a symbol.

Symbols may *not* include space (), commercial at (@), comma (,), colon (:), equals sign (=), quotation mark ("), semicolon (;), ampersand (&), horizontal bar (underscore) (\_), question mark (?).

• Passwords are case sensitive.

END OF STEPS

## Procedure 1-2: Exiting the WaveStar® CIT

#### Overview

Use this procedure to exit the *WaveStar*<sup>®</sup> CIT.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps to exit the *WaveStar*<sup>®</sup> CIT.

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1 From the *WaveStar*<sup>®</sup> CIT Network View main menu, select File  $\rightarrow$  Exit.

**Result:** A confirmation prompt displays.

#### 2 Select **Yes** to exit.

**Result:** The *WaveStar*<sup>®</sup> CIT closes.

Any and all Network Views, System Views, and Online Help sessions started from this *WaveStar*<sup>®</sup> CIT session are also closed.

END OF STEPS

## Edit menu

## Overview

#### Purpose

The purpose of this section is to provide descriptive and procedural information for the Edit menu.

#### Contents

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## Edit menu

#### Purpose

Use this menu to copy the selected Network Element icons from the current Network Element (NE) view to another NE view.

#### Copy icons

Use this menu option to copy the selected Network Element icons from the current Network Element (NE) view to another NE view.

**Important!** The destination to which you can copy an icon are limited to those connection types defined for this NE.

#### Invocation

From the *WaveStar*<sup>®</sup> CIT Network View main menu, select Edit  $\rightarrow$  Copy lcon(s).

#### Shortcut

The shortcut key sequence to access the edit menu is "Alt+E".

#### Security

All users are authorized to access this dialog box.

## Procedure 1-3: Copying Network Element icons

#### Overview

Use this procedure to copy selected Network Element icons from the current Network Element (NE) view to another NE view.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps to copy selected Network Element icons from the current Network Element (NE) view to another NE view.

1 From the *WaveStar*<sup>®</sup> CIT Network View main menu, select Edit  $\rightarrow$  Copy lcon(s) To.

**Result:** A confirmation prompt displays.

2 From the **Current Icon View** drop-down list box, browse the list of available views.

All available views in the selected category are displayed. If no other views are displayed, there are no NE views to which the icon can be copied. See "Administer views" (p. 4-45) for more information on adding new views.

**Result:** The *WaveStar*<sup>®</sup> CIT closes.

Any and all Network Views and Online Help sessions started from this *WaveStar*<sup>®</sup> CIT session are also closed.

END OF STEPS

# 2 View menu

### Overview

#### Purpose

The purpose of this chapter is to provide descriptive and procedural information for the Network View's View menu.

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## ONNS view (Alcatel-Lucent 1675 LambdaUnite MSS only)

#### Purpose

Use this menu option to display the ONNS view.

#### Invocation

To invoke this window from the Network View menu, select  $View \rightarrow ONNS$  View Alcatel-Lucent 1675 LambdaUnite MSS only.

#### **Exit ONNS View**

To exit the ONNS View and return to the Network View, from the ONNS View main menu, select View  $\rightarrow$  Network Management View.

## Refresh OSI view

### Purpose

Use this menu option to refresh the current view, updating it with the latest data available.

#### Invocation

To refresh the OSI view from the Network View menu, select  $View \rightarrow Refresh OSI View$ .

#### Shortcut

The shortcut key sequence to refresh the OSI view is "Ctrl+R".

#### Toolbar icon

The toolbar icon for this menu item is:

## View large icons

### Purpose

Use this menu option to display NE icons as large icons.

#### Invocation

To display NE icons as large icons in the Network View, select  $View \rightarrow Large lcons$ .

#### Shortcut

The shortcut key sequence to view NE icons as large icons is "Alt+V, L".

#### Toolbar icon

The toolbar icon for this menu item is:  $\overline{\mathbf{Q}}$ 

## View small icons

### Purpose

Use this menu option to display NE icons as small icons.

#### Invocation

To display NE icons as small icons in the Network View, select  $View \rightarrow Small$  Icons.

#### Shortcut

The shortcut key sequence to view NE icons as large icons is "Alt+V, S".

#### Toolbar icon

The toolbar icon for this menu item is:  $\Box$ 

## Arrange icons

#### Purpose

Use this menu option to arrange icons in the Network View based on either NE Name or NE Type.

#### Invocations

To arrange NE icons by NE Name or NE Type in the Network View, select one of the following:

- View  $\rightarrow$  Arrange lcons  $\rightarrow$  NE Name
- View  $\rightarrow$  Arrange Icons  $\rightarrow$  NE Type

#### Icon labels

NE icons can be arranged by the following labels in the Network View:

- NE Name The same as the TID which is a case sensitive ASCII character string from 1 to 20 characters and must be unique for each NE in the network.
- The NE Type is one of the following product types supported by the *WaveStar*<sup>®</sup> CIT:
  - Alcatel-Lucent 1850 TSS-5
  - Alcatel-Lucent 1665 DMX
  - Alcatel-Lucent 1665 DMXtend
  - Alcatel-Lucent 1665 DMXplore
  - UNITE (Alcatel-Lucent 1675 LambdaUnite MSS)
  - BWM (BandWidth Manager)
  - SANE
  - Metropolis® DMX press

### Shortcuts

Use the following shortcut keys to arrange the icons:

- The shortcut key sequence to view NE icons by NE name is "Alt+V, I, N".
- The shortcut key sequence to view NE icons by NE type is "Alt+V, I, p".

## Network View preferences

#### Purpose

Use this dialog box to customize the following *WaveStar*<sup>®</sup> CIT Network View preferences before you login to a specific NE:

- Set the Icon Size to either small or large.
- Clear all NE Names from the NE Name drop-down list.
- Set the WaveStar® CIT to always save your settings on Exit.
- Hide the toolbar.

#### Invocation

Follow the steps below to invoke this window.

- 1. From the Network View main menu, select **View**  $\rightarrow$  **Preferences**.
- 2. From the *Preferences* window, select the **Network View** tab.

#### Shortcut

The shortcut key sequence to access the preferences dialog box is "Alt+V, P".

#### Security

All users are authorized to access to this dialog box.

#### Fields and parameters

Preferences - Network View Tab	
Icon Size	Displays NE icons as small or large icons in the Network View window.
NE Name from	Deletes NEs from the existing list.
drop-down list	To delete an NE from the existing list follow these steps:
	<ol> <li>Select Delete. The NE Name List Dialog opens listing the NE Names.</li> </ol>
	<ol> <li>Select the name of the NE that you want to delete.</li> <li>If you have multiple occurrences of a TID, all occurrences of the name you select will be removed; not just the selected entry.</li> </ol>
	3. Choose <b>OK</b> to delete the selected NE, or choose <b>Cancel</b> to return to the <i>Preferences</i> window.
Save Settings on Exit	Check this box to save your settings when you exit the CIT. Leave it unchecked to use the default settings.
Hide toolbarCheck this box to hide the toolbar panel (directly below menu bar).Leave it unchecked to display the toolbar panel.	

#### Buttons

Button	Description	
ОК	Use this button to apply the current changes and close this dialog box.	
Cancel	Use this button to discard any changes and close this dialog box.	
Save	Use this button to save your changes and continue provisioning.	
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.	

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## Procedure 2-1: Customize Network View preferences

#### Overview

Use this procedure to customize the *WaveStar*<sup>®</sup> CIT Network View interface before you login to a specific NE.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps to customize the Network View.

- From the *WaveStar*<sup>®</sup> CIT Network View main menu, select View → Preferences.
   Results: The *Preferences* window opens.
- 2 Click the **Network View** tab.
- 3 To change the icon size, select **Small** or **Large**.
- 4 To delete a name from the NE drop-down lists, click the **Delete** button.

Result: The NE Name List Dialog opens.

- **5** From the *NE Name List Dialog*, select the name of the NE that you would like to delete and click **OK**.
- **6** To save your settings when you exit the CIT, check **Save setting on exit**. Uncheck this option to restore the default settings when you restart *WaveStar*<sup>®</sup> CIT.
- 7 To hide the toolbar (directly below menu bar), check the **Hide Toolbar** box. Leave it unchecked to display the toolbar.

8 To retain any changes you made in the **Network View** tab, click **Save**.

9 Click **OK** to close this window.

END OF STEPS

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## Toolbar preferences

#### Purpose

Use this dialog box to customize the *WaveStar*<sup>®</sup> CIT Network View interface before you login into a specific NE.

#### Invocation

Follow the steps below to invoke this window.

- 1. From the Network View main menu, select View  $\rightarrow$  Preferences.
- 2. When the dialog box appears, select the **Toolbar** tab.

#### Shortcut

The shortcut key sequence to access the Preferences window is "Alt+V, P".

#### Security

All users are authorized to access to this dialog box.

#### Fields and parameters

Preferences - Toolbar Tab		
ToolBar Icons		
Available Icons	Select which icons to display in your toolbar.	
	• Click <b>Add</b> to move only the selected icons to the <i>Selected Icon</i> list.	
	• Click Add All to move the entire list of icons to the <i>Selected Icon</i> list.	
Selected Icons	Select which icons to keep or remove from your toolbar.	
	• Click <b>Remove</b> to remove only the selected icons.	
	• Click <b>Remove All</b> to remove the entire list of icons.	
ToolBar Location	Click the appropriate radio button to place your toolbar at the top, bottom, right, or left of the Network View window.	

#### **Buttons**

Button	Description	
ОК	Use this button to apply the current changes and close this dialog box.	
Cancel	Use this button to discard any changes and close this dialog box.	

В	Button	Description
Sa	ave	Use this button to save your changes and continue provisioning.
Н	lelp	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.

## Procedure 2-2: Customize the toolbar

#### Overview

Use this procedure to customize the toolbar by setting the following options:

- Shortcut icons to display on the toolbar
- Display order of the toolbar icons
- Location of the toolbar in the *WaveStar*<sup>®</sup> CIT Network View window.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps customize the toolbar.

1 From the Network View menu, select  $View \rightarrow Preferences$ .

Results: The Preferences window opens.

- 2 Click the **Toolbar** tab.
- 3 To customize which icons appear in the Toolbar, highlight the icon(s) in the *Available Icons* list, and click the respective button in the Toolbar Icons panel of the Toolbar dialog box.

Result: The result of you choices appears in the Selected Icons list.

4 To rearrange the order of the icons on the toolbar, highlight an icon name in the *Selected Icons* list, and use the up and down arrows to reposition the selected icon.

Result: The result of your choices appears in the Selected Icons list.

**5** To change the position of the toolbar, click one of the Tool Bar Location radio buttons.

6	To retain any changes you made in the <b>Toolbar</b> tab, click <b>Save</b> .
7	Click <b>OK</b> to close this window.

END OF STEPS
## Display preferences

#### Purpose

Use this dialog box to view or modify the way the time format is displayed in the Network View and the way the tool tips are displayed in both the Network View and System View.

Important! Changes will occur within one minute from the time they are saved.

#### Invocation

Follow the steps below to invoke this window.

- 1. From the Network View main menu, select  $View \rightarrow Preferences$ .
- 2. When the *Preferences* window box opens, select the **Display** tab.

#### Shortcut

The shortcut key sequence to access the Preferences window is "Alt+V, P".

#### Security

All users are authorized to access to this dialog box.

#### Fields and parameters

Preferences - Display Tab		
Choose Time Format	Select your preference for 12 Hour Clock (AM/PM) or 24 Hour Clock (00:00-23:59) format for the time display.	
	This change impacts the Network View and select screens in the in the <i>WaveStar</i> <sup>®</sup> CIT System View.	
Toolbar Tips	Select this check box to hide sub-menu Tool tips. Leave it unchecked to retain the default setting.	
	This change also impacts the tool tip display in the <i>WaveStar</i> <sup>®</sup> CIT System View.	

#### Buttons

Button	Description	
ОК	Use this button to apply the current changes and close this dialog box.	
Cancel	Use this button to discard any changes and close this dialog box.	
Save	Use this button to save your changes and continue provisioning.	
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.	

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### Procedure 2-3: Customize clock and tool tip display

#### Overview

Use this procedure to select the display for the clock format and tool tips.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps to customize the clock format and tooltip display.

1 From the Network View menu, select  $View \rightarrow Preferences$ .

Results: The Preferences window opens.

2 Click the **Display** tab.

#### **3** Choose the time format.

Important! Changes will occur within one minute from the time they are saved.

4 If you do not want sub-menu tool tips to appear, check **Hide sub-menus Tool tips**. Leave this option unchecked for tool tips to appear for sub-menus.

**Important!** This change also effects the tool tip display in the *WaveStar*<sup>®</sup> CIT System View.

- 5 To retain any changes you made in the **Display** tab, click **Save**.
- 6 Click **OK** to close this window.

------

# 3 Network Element menu

### Overview

#### Purpose

The purpose of this chapter is to provide descriptive and procedural information for the Network Element menu.

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### Network Element menu

#### Purpose

Use the **Network Element** menu options to perform the following procedures in the *WaveStar*<sup>®</sup> CIT Network View:

- Establish a connection to an NE
- Disconnect an NE
- Search for an NE
- Display NE properties.

#### Invocation

To access the Network Element menu from the menu bar, select Network Element.

#### Shortcut

The shortcut key sequence to access the network element menu is "Alt+N".

#### **NE** selection

Use this procedure to establish a graphical user interface (GUI) connection or a TL1 command line interface connection to an NE in the *WaveStar*<sup>®</sup> CIT.

#### **Disconnect from NE**

Use this menu option to disconnect the active Graphical or TL1 connection to the selected NE.

#### **Disconnect from all NEs**

Use this menu option to disconnect the active Graphical or TL1 connection to the all selected NEs.

#### Find

Use this menu option to search for an NE (network element) on the WaveStar® CIT

#### **Properties**

Use this menu option to view the type, TID, and vendor properties of the selected NE.

### **NE** selection

#### Purpose

Use this dialog box to establish a GUI (graphical user interface) or TL1 (command line interface) connection to an NE. You can provision the TIDs (target identifiers), NSAPs (network service access points), and/or IP (internet protocol) addresses for NEs (network elements) that might be connected to the CIT via OSI (open systems interconnection) or TCP (transfer control protocol)/IP.

The list of available NEs are entered in the Current NE view by selecting Administration  $\rightarrow$  Administer Views. For more information, see "Administer views" (p. 4-45)

#### Invocations

To invoke the *NE Selection* window from the Network View main menu, select one of the following:

- Network Element  $\rightarrow$  Graphical
- Network Element  $\rightarrow$  TL1

#### Shortcuts

Use one of the following shorcuts to invoke the NE Selection window:

- The shortcut key sequence to establish a GUI connection to an NE is "Ctrl+T".
- The shortcut key sequence to establish a TL1 connection to an NE is "Ctrl+U".

#### Toolbar icons

The toolbar icon for the Graphical menu item is:  $\mathbb{T}_{=}$ 

The toolbar icon for the TL1 menu item is:

#### Security

All users are authorized to access to this dialog box.

### Fields and parameters

NE Selection	
Select a TID (target identifier) from the available list.	<ul> <li>Click the appropriate radio button to select the TID source. Possible values are:</li> <li>Address List</li> <li>CIT OSI Neighbors</li> </ul>
	Click the appropriate radio button to select a method. Possible values are: OSI/TARP Primary NSAP Secondary NSAP Primary TCP/IP Secondary TCP/IP Serial

#### Buttons

Button	Description	
Graphical	Establishes a GUI connection to the NE.	
TL1	Establishes a command line interface to the NE.	
Close	Use this button to close an information-only window.	
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.	

### Procedure 3-1: Establish a connection to an NE

#### Overview

Use this procedure to establish a graphical user interface (GUI) connection or a command line interface connection (TL1) to an NE in the *WaveStar*<sup>®</sup> CIT.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps to establish a connection to an NE.

- 1 From the Network Element menu, select one of the following:
  - Graphical
  - TL1

Result: The NE Selection window opens.

#### 2 Select one of the following to display a list of this NE type:

- Address List
- CIT OSI Neighbors

**Result:** The list of available NEs displays.

- **3** From the *Address List*, select a Target Identifier (TID).
- 4 From the list of connection types, select the one you want to establish for this NE:
  - OSI/TARP
  - Primary NSAP
  - Secondary NSAP
  - Primary TCP/IP

.....

- Secondary TCP/IP
- Serial

**Important!** Radio buttons are only available for protocols applicable to the NEs in the *Address List*.

- **5** Click one of the following:
  - Graphical
  - TL1

**Result:** The *NE Selection* window opens displaying a list of TIDs.

6 From the *Address List*, select a Target Identifier (TID).

.....

7 Select the type of connection you wish to establish.

**Important!** Radio buttons are only enabled for protocols applicable to the NEs in the *Address List*.

- 8 Click Graphical or TL1.
- **9** Complete the following steps to establish a connection to your respective type of NE:
  - If you chose **Graphical**, enter the User ID and Password for the NE in the *Login Dialog*, click **OK**, and the connection will be established.
  - If you chose TL1, you are prompted to select one of the following execution modes:
    - Filter TL1 Commands/Replies.
    - Raw TL1 Commands

**Result:** The *Cut Through* window opens.

.....

### Procedure 3-2: Disconnect from NE

#### Overview

Use this procedure to disconnect an active graphical user interface (GUI) connection or a command line interface connection (TL1) to an NE in the *WaveStar*<sup>®</sup> CIT.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps to disconnect the active Graphical or TL1 connection to the selected NE.

- 1 Use one of the following options to invoke the NE Selection window:
  - From the menu bar select Network Element  $\rightarrow$  Disconnect from NE.
  - Use the shortcut key sequence "Alt+N, D".
  - Click the toolbar icon for this menu item:

Result: The NE Selection window opens displaying a list of connected NEs.

2 Select the TID of the NE you want to disconnect from the drop-down list box.

**Important!** If there is more than one connection type, check for the appropriate type of connection when selecting the TID.

.....

#### 3 Click Disconnect.

- **4** Select one of the following:
  - Yes to disconnect from the selected NE.
  - No to return to the *WaveStar*<sup>®</sup> CIT.

### Procedure 3-3: Disconnect from all NEs

#### Overview

Use this procedure to disconnect the active graphical user interface (GUI) connection or the TL1 command line interface connection to all of the NEs in the *WaveStar*<sup>®</sup> CIT.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps to disconnect the active Graphical or TL1 connections to all NEs.

.....

- 1 Use one of the following options to invoke the *System Shutdown Manager* window:
  - From the menu bar select Network Element  $\rightarrow$  Disconnect from All NEs
  - Use the shortcut key sequence "Alt+N, l".

**Result:** The *System Shutdown Manager* window opens displaying a list of connected NEs.

#### **2** Select one of the following:

- **Yes** to disconnect from all connected NEs.
- No to return to the *WaveStar*<sup>®</sup> CIT.

### Find Network Element

#### Purpose

Use this screen to search for an NE (network element) on the WaveStar® CIT.

#### Invocation

To invoke this window from the Network View main menu, select Network Element  $\rightarrow$  Find.

#### Shortcut

The shortcut key sequence to locate an NE is "Ctrl+F".

#### Toolbar icon

The toolbar icon for this menu item is:  $\[ \] \mathbf{x} \]$ 

#### Security

All users are authorized to access to this dialog box.

#### Fields and parameters

Find NE		
TID	Enter a TID (target identifier) value to search for, or select a TID from the drop-down list.	
Look In	Indicate where you want the CIT (craft interface terminal) to search. Locations TCP/IP Direct Connect TCP/IP Gateway Serial Most Rece	
	Possible values are:	
	All Locations	
	CIT OSI Neighbors	
	OSI Provisioned	
	TCP/IP Direct Connect	
	• TCP/IP Gateway	
	• Serial	
	Most Recent	
Found List	Displays the results of your search.	

#### Buttons

Button	Description
Find	Use this button to initiate the search for the NE which corresponds to your search criteria.
Cancel	Use this button to discard any changes and close this dialog box.
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.

### Procedure 3-4: Search CIT for an NE

#### Overview

Use this procedure to search for an NE on the WaveStar® CIT.

Important! The TID name that you enter does not have to be case-sensitive.

The use of wild cards is not supported in this search function.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps to locate a Network Element.

- 1 From the Network Element menu, select **Find**.

Result: The Find Network Element window opens.

- 2 In the **TID** text box, enter the TID of the network element you want to fine, or select one from the drop-down list.
- **3** From the **Look in** drop-down list, select a location for the search.
- 4 Click Find.

Result: Search results are displayed in the Found List window.

**5** If the NE is found, then select it from the *Found List*.

**Result:** A login screen will open or a message will inform you that you are already logged into this NE.

### Procedure 3-5: View NE properties

#### Overview

Use this procedure to view the Type, TID, and Vendor properties of the selected NE.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps to view the Type, TID, and Vendor properties of the selected NE.

- 1 In the *NE Icons View* area of the CIT window, click an NE to select it.
- 2 Use one of the following methods to invoke the *NE Properties* window:
  - From the menu bar select **Network Element**  $\rightarrow$  **Properties**
  - Use the shortcut key sequence "Ctrl+P".
  - Click the toolbar icon for this menu item:

**Result:** The *NE Properties* window opens displaying the NE Type, Target Identifier, and Vendor name.

.....

3 Click **OK** to close this window.

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# 4 Administration menu

### Overview

#### Purpose

The purpose of this chapter is to provide screen help.

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Administration menu

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### View CIT administration

#### Purpose

Use this dialog box to view the current state of the system in detail. This screen is for informational purposes only.

#### Invocation

To invoke this window from the Network View main menu, select Administration  $\rightarrow$  View CIT Administration.

#### Shortcut

The shortcut key sequence to access the View CIT Administration menu is "Alt+A, Enter".

#### Security

All users are authorized to access to this dialog box.

#### Fields and parameters

CIT Administration			
Presentation Selector, PSEL	Displays the OSI (open systems interconnection) Presentation layer selector field for the CIT.		
Session Selector, SSEL	Displays the OSI Session layer selector field for the CIT.		
Transport Selector, TSEL	Displays the OSI Transport layer selector field for the CIT.		
NSAP	Displays the 20-octet NSAP for the system controller or main shelf DCC1 (data communications controller) circuit pack.		
AFI	Displays the 2-character hexadecimal (0-9 a-f) string representing the AFI (authority and format identifier) portion of the NSAP.		
IDI	Displays the 4-character hexadecimal (0-9 a-f) string representing the IDI (initial domain identifier) portion of the NSAP field to specify the country code.		
DFI	Displays the 2-character hexadecimal (0-9 a-f) string representing the DFI (DSP format identifier) portion of the NSAP.		
ORG	Displays the 6-character hexadecimal (0-9 a-f) string representing the ORG (organization or operator identifier) portion of the NSAP.		

	CIT Administration	
	Reserved	Displays the 4-character hexadecimal (0-9 a-f) string representing the reserved portion of the NSAP.
	RD	Displays the 4-character hexadecimal (0-9 a-f) string representing the RD (routing domain) portion of the NSAP.
	AREA	Displays the 4-character hexadecimal (0-9 a-f) string representing the area identifier portion of the NSAP.
	SYSTEM	Displays the MAC (media access control) address for this DCC pack which is also the system portion of the NSAP.
	SEL	Displays the primary DSA (directory server agent) for the NSAP.

#### Buttons

Button	Description
Close	Use this button to close an information-only window.
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.

### Change password

#### Purpose

Use this dialog box to change your password for the *WaveStar*<sup>®</sup> CIT Network View. This option is only available if you did not disable passwords on installation.

#### Invocation

To invoke this window from the Network View main menu, select Administration  $\rightarrow$  Change Password.

#### Shortcut

The shortcut key sequence to access the Change Password window is "Alt+A, c".

#### Security

You must have a Superuser (S5) authorization level to access this dialog box. This command will only be available if you selected **Enable WaveStar CIT logins** during the *WaveStar*<sup>®</sup> CIT installation. If you selected **Disable WaveStar CIT logins**, then this menu option will not appear.

#### Fields and parameters

Change Password	
Old Password	Enter your current Network View password.
New Password	Enter your new Network View password. A password is a case-sensitive string of 6 - 10 characters and must contain at least 3 non-alphabetic characters, at least one that is numeric and one that is symbolic.
Confirm Password	Enter your new Network View password again to confirm its spelling.

#### **Buttons**

Button	Description
ОК	Use this button to apply the current changes and close this dialog box.
Cancel	Use this button to discard any changes and close this dialog box.
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.

.....

### Procedure 4-1: Change CIT Network View password

#### Overview

Use this procedure to change your password for the CIT Network View.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Default login IDs

It is highly recommended that you change the default user IDs and passwords for the *WaveStar*<sup>®</sup> CIT during your first session to preserve the security of your equipment. For more information refer to "Change password" (p. 4-5).

The defaults user IDs and passwords are:

User ID	Password
LUC01	LUC+01
LUC02	LUC+02

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following procedure to change the Network View password for the current user.

1 From the Network View menu, select Administration  $\rightarrow$  Change Password.

**Result:** The *Change CIT User Password* window opens.

- 2 In the **Old Password** field, enter your current password.

If you enter an incorrect password, you will receive an error message. Click **OK** to clear the Old Password field and re-enter your password.

3 In the **New Password** field, enter you new password.

- 4 In the **Confirm Password** field, enter you new password again.
- 5 Click **OK** to confirm the password change, or click **Cancel** to close this dialog box without making any changes.

### View user logins

#### Purpose

Use this dialog box to view the User IDs, Security Level, and User Type of every user in the system.

#### Invocation

To invoke this window from the Network View main menu, select Administration  $\rightarrow$  Security  $\rightarrow$  View User Logins.

#### Security

You must have a Superuser (S5) authorization level to access this dialog box. This command will only be available if you selected **Enable WaveStar CIT logins** during the *WaveStar*<sup>®</sup> CIT installation. If you selected **Disable WaveStar CIT logins**, then this menu option will not appear.

#### Fields and parameters

View CIT User Logins	
User Logins List Box	Displays security information for the CIT user list. Click any column heading to sort users. Click again to reverse the sort order.
User ID	Displays the user's login name (ID).
Security Level	Displays the user's privilege code (i.e., security level). All users have an authorization level ranging from S1 through S5, with S5 indicating a Superuser. S1 through S4 have the value of "other" and can perform all related functions except for administering CIT logins.
User Type	Displays the user type that is associated with each login and security level.

#### **Buttons**

Button	Description
Close	Use this button to close an information-only window.
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.

### User provisioning

#### Purpose

Use this dialog box to create, modify, or delete user logins for the WaveStar® CIT.

#### Invocation

To invoke this window from the Network View main menu, select Administration  $\rightarrow$  Security  $\rightarrow$  User Provisioning.

#### Shortcut

The shortcut key sequence to provision users is "Alt+A, S, U".

#### Security

You must have a Superuser (S5) authorization level to access this dialog box. This command will only be available if you selected **Enable WaveStar CIT logins** during the *WaveStar*<sup>®</sup> CIT installation. If you selected **Disable WaveStar CIT logins**, then this menu option will not appear.

#### Fields and parameters

CIT User Provisioning	
New User	Enter a new user login.
Existing User	Select an existing user login from the drop-down menu.
Enter Password	Enter a new NE password for the new or selected user login.
Confirm Password	Reenter the NE password to confirm the spelling.
Security Level	Select an authorization code from S1 through S4. S1 through S4 have the value of "other" and can perform all related functions except for administering CIT logins.
	The two default, Superuser logins (LUC01 and LUC02) have an authorization code of S5; this authorization code cannot be changed.

#### **Buttons**

Button	Description
Add	Use this button to add a newly created user login.
Modify	Use this button to modify the selected user login.
Delete	Use this button to delete the selected user login.
Close	Use this button to close an information-only window.
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.

.....

### Procedure 4-2: Modify user provisioning

#### Overview

Use this procedure to add a password and security level for a new user or change the passwords and the security level for existing users to provide access to *WaveStar*<sup>®</sup> CIT.

**Important!** This dialog only provisions users for access to the *WaveStar*<sup>®</sup> CIT, not for access to network elements. For information on provisioning users for access to network elements, please refer to the User Operations Guide for your product.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps to view user logins.

- 1 From the Network View menu, select Administration  $\rightarrow$  Security  $\rightarrow$  User Provisioning.
- 2 To provision security for a new user choose the **New User** radio button, or to provision security for an existing user, choose the **Existing User** radio button.
- 3 In the Enter Password field, enter a new or existing password.

Important! This password is a case-sensitive string of up to 10 characters.

4 In the **Confirm Password** field retype the password to confirm the spelling.

.....

- 5 For a new user, from the **Security Level** drop-down list, select one of the following
  - S1 through S4 authorization codes have the value of "other" and can perform all related functions except for administering CIT logins.
  - S5 is the authorization code for a Superuser.

security levels:

- **6** To apply the security settings, do one of the following:
  - New User Click the **Add** button.
  - Existing User Click the **Modify** button.
- 7 Click **Close** to close this dialog box.

### Change Superuser login ID

#### Purpose

Use this dialog box to change the login ID of either of the two CIT Superuser accounts.

#### Invocation

To invoke this window from the Network View main menu, select Administration  $\rightarrow$  Security  $\rightarrow$  Change Superuser Login ID.

#### Shortcut

The shortcut key sequence to change a Superuser login ID is "Alt+A, S, h".

#### Security

You must have a Superuser (S5) authorization level to access this dialog box. This command will only be available if you selected **Enable WaveStar CIT logins** during the *WaveStar*<sup>®</sup> CIT installation. If you selected **Disable WaveStar CIT logins**, then this menu option will not appear.

#### Fields and parameters

Change Super User ID	
Login ID	Select the Superuser Login ID that you want to change by clicking the appropriate radio button:
	• LUC02
	• LUC01
Enter New Login ID	Enter the new login for the login ID selected above.

#### Buttons

Button	Description
ОК	Use this button to apply the current changes and close this dialog box.
Cancel	Use this button to discard any changes and close this dialog box.
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.

### Procedure 4-3: Modify Superuser login ID

#### Overview

Use this dialog box to modify the User IDs of any of the WaveStar® CIT Superusers.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Default login IDs

The *WaveStar*<sup>®</sup> CIT has two default/system logins: LUC01 with password LUC+01, and LUC02 with password LUC+02. It is recommended that the default/system login IDs and passwords be changed by the user during your first login session.

#### Superuser login ID

The password of the new Superuser login ID is the same as it was for the previous login ID, and must be changed separately. Superusers are a special class of privileged user with an S5 authorization level. Only Superusers can provision new users.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps to change a default Superuser Login ID.

- 1 From the Network View menu, select Administration  $\rightarrow$  Security  $\rightarrow$  Change Superuser Login ID.
- 2 In the *Change Super User ID* window, select the radio button for the super user login ID you want to change.
- 3 In the new login ID text field, enter the new login ID.

- 4 Click one of the following:
  - **OK** to confirm the login ID change. Upon selecting **OK**, the system issues a warning message asking you to confirm that you want to modify the login ID and alerting you that this change will take affect the next time you login.
  - **Cancel** to cancel the login ID change and close the dialog box.

End of steps

### Prepare PCMCIA disk

#### Purpose

Use this dialog box to copy generics to a PCMCIA (Personal Computer Memory Card International Association) disk for use within the Network Element (network element) as a Primary NVM (nonvolatile memory), Standby NVM, or Secondary NVM. Essentially, you can plug the PCMCIA disk into the laptop, download the NE Software from the CD-ROM drive to the PCMCIA disk, remove the PCMCIA disk, and physically plug it into the NE to download the software.

#### Invocation

To invoke this window from the Network View main menu, select Administration  $\rightarrow$  Prepare PCMCIA Disk.

Important! The following products do not support the use of a PCMCIA disk:

- Alcatel-Lucent 1665 DMXplore
- Alcatel-Lucent 1850 TSS-5
- *Metropolis*<sup>®</sup> DMX press
- Alcatel-Lucent 1665 DMX earlier than Release 6.0.0
- Alcatel-Lucent 1665 DMXtend earlier than Release 4.0.0

#### Shortcut

The shortcut key sequence to prepare a PCMCIA disk is "Alt+A, P".

#### Toolbar icon

The toolbar icon for this menu item is:

#### Security

All users are authorized to access to this dialog box.

#### Fields and parameters

Copy Generic to PCMCIA Disk	
Available Generics	Select the NE generic to be copied.
Destination PCMCIA Disk	Select the drive to which the Network View generic will be copied.

#### Buttons

Button	Description
Copy Generic	Use this button to copy the NE software generic.
Copy Data	Use this button to copy the NE data.
Cancel	Use this button to discard any changes and close this dialog box.
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.

.....

### Procedure 4-4: Copy PCMCIA disks

#### Overview

Use this procedure to copy the NE generic onto the Personal Computer Memory Card International Association (PCMCIA) disk. The disk can them be used within the Network Element as a Primary NVM (nonvolatile memory), Standby NVM, or Secondary NVM. Essentially, you can plug the PCMCIA disk into the laptop, download the NE Software from the CD-ROM drive to the PCMCIA disk, remove the PCMCIA disk, and physically plug it into the NE to download the software.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps to copy a generic NE to the PCMCIA disk.

1 From the Network View menu, select Administration  $\rightarrow$  Copy PCMCIA Disks

**Result:** The *Prepare PCMCIA Disk* window opens.

2 From the *Available Generics* list, select the location of the NE Software Generic you would like to copy.

**Important!** If the location is not accessible, an error message will be issued and you will be prompted to select another location.

- **3** From the *Destination PCMCIA Disk* list, select the disk onto which you want to copy the NE.
- 4 Click one of the following:
  - Copy Generic
  - Copy Data

**Result:** One of the following may occur:

- If the disk is not inserted, you will be prompted to insert the disk or cancel out of the operation.
- If the size of the inserted disk is inadequate, you will be prompted to insert another disk or cancel out of the operation.
- If the inserted PCMCIA disk is the proper size but the disk is not blank, you will be prompted to erase the disk before proceeding.
- Otherwise, if the above issues do not exist, the software generic is copied to the PCMCIA disk.
- 5 You will receive a completion message with instructions to label the PCMCIA disk as the Primary disk. The completion message includes the NE type and software version of the generic that has been copied.
### Data communications: Network layer

### Purpose

Use this dialog box to configure parameters that the user can set for the network layer.

### Invocation

To invoke this window

Follow the steps below to invoke this window.

- 1. From the Network View main menu, select Administration  $\rightarrow$  Data Communications.
- 2. Select the **Network Layer** tab.

### Shortcut

The shortcut key sequence to administer data communications is "Alt+A, D".

### Security

All users are authorized to access to this dialog box.

#### Fields and parameters

CIT Data Communication	
Network Layer Tab	
Auto-Learn NSAP	After the CIT starts, Auto-Learn will pick up the area address of its NSAP (network service access point) by listening to the OSI network, and then build the NSAP automatically. If this check box is not selected, the area address in the stack parameter file CitDataCommFile.dat will be used.
Primary Area Address	Click Modify to change the primary area address. For more information refer to "Provision NSAP" (p. 4-23).
Max Link Metric	Possible values are the integers ranging from 1 - 63, inclusive.
End System Config. Timer	Possible values range from 10 - 1000 seconds.

### Buttons

Button	Description
ОК	Use this button to apply the current changes and close this dialog box.

Button	Description
Cancel	Use this button to discard any changes and close this dialog box.
Apply	Use this button to apply the current changes without closing the dialog box.
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.

### **Provision NSAP**

### Purpose

Use this dialog box to provision the network service access point (NSAP) area address(es).

Important! The NE (network element) will reset if the NSAP is modified.

#### Invocation

Follow the steps below to invoke this window.

- 1. From the Network View main menu, select Administration  $\rightarrow$  Data Communications.
- 2. Select the **Network Layer** tab.
- 3. In the Primary Area Address section, click Modify.

#### Security

All users are authorized to access to this dialog box.

### Fields and parameters

Modify CIT Network Manual Area Address	
Primary Area Address	View, enter, or modify the 20-octet NSAP.
AFI	Enter the 2 character hexadecimal (0-9 a-f) string representing the AFI (authority and format identifier) portion of the NSAP.
IDI	Enter the 4 character hexadecimal (0-9 a-f) string representing the IDI (initial domain identifier) portion of the NSAP field to specify the country code.
DFI	Enter the 2 character hexadecimal (0-9 a-f) string representing the DFI (DSP format identifier) portion of the NSAP.
ORG	Enter the 6 character hexadecimal (0-9 a-f) string representing the ORG (organization or operator identifier) portion of the NSAP.
Reserved	Enter the 4 character hexadecimal (0-9 a-f) string representing the reserved portion of the NSAP.
RD	Enter the 4 character hexadecimal (0-9 a-f) string representing the RD (routing domain) portion of the NSAP.
Area	Enter the 4 character hexadecimal (0-9 a-f) string representing the area identifier portion of the NSAP.

#### Buttons

Button	Description
ОК	Use this button to apply the current changes and close this dialog box.
Cancel	Use this button to discard any changes and close this dialog box.
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.

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### Procedure 4-5: Provision network layer parameters

### Overview

Use this procedure to provision parameters for the WaveStar® CIT network layer.

### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

### Auto-Learn NSAP

After the CIT starts, Auto-Learn will pick up the area address of its Network Service Access Point (NSAP) by listening to the OSI network, and then build the NSAP automatically. If the Auto-Learn NSAP check box is not selected, the area address in the stack parameter file CitDataCommFile.dat will be used.

### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

### Step

Complete the following steps to set the Network Layer parameters that the user can provision.

1 From the Network View menu, select Administration  $\rightarrow$  Data Communications

**Result:** The *Data Communications* window opens.

### 2 Select the **Network Layer** tab.

-	

lf	Then
you want to enable (or disable) the NSAP to auto-learn the area address by listening to the OSI network,	select (or deselect) Auto-Learn NSAP

lf	Then
you want to change the Primary Area Address,	<ul> <li>follow these steps:</li> <li>1. click Modify. The Modify CIT Network Manual Area Address window opens.</li> </ul>
	2. In the <i>Modify CIT Network Manual Area</i> <i>Address</i> window, view, enter, or modify the 20-octet NSAP as required.

- 4 Click **OK** to close this window and return to the Network Layer tab.
- 5 Set the Max Link Metric as required.
- 6 Set the End System Config. Timer as required.
- 7 Click Apply, read the warning message, then click Yes to execute the command.
- 8 If you are finished provisioning Data Communications parameters, click **OK** to exit. Otherwise, continue with another tab.

### Data communications: Tarp parameter

### Purpose

Use this dialog box to set the various TARP (target identifiers address resolution protocol) parameters that the user can provision.

### Invocation

Follow the steps below to invoke this window.

- 1. From the Network View main menu, select Administration  $\rightarrow$  Data Communications.
- 2. Select the TARP Parameter tab.

### Shortcut

The shortcut key sequence to administer data communications is "Alt+A, D".

### Security

All users are authorized to access to this dialog box.

### Fields and parameters

CIT Data Communication	
TARP Parameter Tab	
Enable TARP TDC Function	Select (or deselect) this check box to enable (or disable) TARP data caching.
	The default value is 5.
Loop Detection Buffer Entry Timer	Possible values for the Loop Detection Buffer Entry Timer are from 1-10 minutes, inclusive.
	The default value is 5.
Loop Detection Buffer Flush Timer	Possible values are 1-1440 minutes, inclusive.

#### Buttons

Button	Description
ОК	Use this button to apply the current changes and close this dialog box.
Cancel	Use this button to discard any changes and close this dialog box.
Apply	Use this button to apply the current changes without closing the dialog box.
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.

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### Procedure 4-6: Provision Tarp parameters

### Overview

Perform the following steps to provision TARP parameters, as required.

### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

### Step

Complete the following steps to set the various TARP (target identifiers address resolution protocol) parameters that the user can provision.

- From the Network View menu, select Administration → Data Communications.
   Result: The Data Communications window opens.
- 2 Select the **TARP Parameter** tab.
- **3** To enable (or disable) TARP data caching, select (or deselect) **Enable TARP TDC Function**.
- 4 Set the **Loop Detection Buffer Entry Timer** as required.
- 5 Set the Loop Detection Buffer Flush Timer as required.
- 6 Click **Apply**, read the warning message, then click **Yes** to execute the command.

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7 If you are finished provisioning Data Communications parameters, click **OK** to exit. Otherwise, continue with another tab.

### Serial COM selection

### Purpose

Use this dialog box to view or modify serial connection settings.

### Invocation

To invoke this window from the Network View main menu, select Administration  $\rightarrow$  Serial COM Connection.

#### Shortcut

The shortcut key sequence to administer serial COM connections is "Alt+A, M".

#### Security

All users are authorized to access to this dialog box.

### Fields and parameters

Serial Connection	
Serial COM Selection	Select either COM 1 or COM 2.
Baud Rate	<ul><li>Possible values for the baud rate are:</li><li>1200</li><li>2400</li></ul>
	<ul> <li>4800</li> <li>9600</li> <li>19200</li> </ul>

#### Buttons

Button	Description
ОК	Use this button to apply the current changes and close this dialog box.
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.

### Procedure 4-7: Provision serial port connection settings

### Overview

Use this procedure to view or modify serial port connection settings.

### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

### Step

Complete the following steps to Administer serial port connection settings.

- From the Network Menu view, select Administration → Serial COM Selection.
   Result: The Serial COM Selection window opens.
- 2 Select COM 1 or COM 2 as the serial port for serial communication.
- 3 From the **Baud Rate** drop-down list, select the rate for serial communication.

### 4 Click **OK** to apply your settings and close the dialog box.

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### OSI/Network card assignment

### Purpose

Use this dialog box to select the network card on the PC running the *WaveStar*<sup>®</sup> CIT to use to connect to an NE.

### Invocation

To invoke this window from the Network View main menu, select Administration  $\rightarrow$  OSI/Network Card Assignment.

### Security

All users are authorized to access to this dialog box.

### Fields and parameters

OSI/Network Card Assignment	
Network Card(s): Select	Select the number for the desired network card from the drop-down menu. Information about the selected network card is displayed. To activate the selection, select the <b>OK</b> button.

### Buttons

Button	Description
ОК	Use this button to apply the current changes and close this dialog box.
Cancel	Use this button to discard any changes and close this dialog box.

### Procedure 4-8: Select OSI/network card

### Overview

Use this procedure to select which network card on the PC running the *WaveStar*<sup>®</sup> CIT you want to use to connect to an NE.

### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

### Step

Complete the following steps to select a network card on the PC running the *WaveStar*<sup>®</sup> CIT that will connect to the NE.

- From the Network View menu, select Administration → OSI/Network Card Assignment Result: The Network Card Selection window opens.
- 2 Select a network card from the **Select:** drop-down list.

3 Click OK.

### Address list

### Purpose

Use this dialog box to view or provision the TIDs (target identifiers), NSAPs (network service access point), and/or IP (Internet protocol) addresses for NEs (network elements) that might be connected to the CIT (customer interface terminal) via OSI (open systems interconnection) or TCP/IP (transmission control protocol/Internet protocol), into a local CIT file.

### Invocation

To invoke this window from the Network View main menu, select Administration  $\rightarrow$  Address List.

### Shortcut

The shortcut key sequence to administer the address list is "Alt+A, A".

### Toolbar icon

The toolbar icon for this menu item is:

### Security

All users are authorized to access to this dialog box.

### Fields and parameters

Address Provisioning		
TID	Displays a list of existing TIDs in the local CIT file	
NE Туре	Displays the network element type.	
Vendor	Displays the vendor name.	
Primary TCP/IP, Port, GW, Default	Displays the primary transmission control protocol/Internet protocol address and indicates whether the port (default 3081) and gateway functions are enabled or disabled.	
Secondary TCP/IP, Port, GW, Default	Displays the secondary transmission control protocol/Internet protocol address and indicates whether the port (default 3081) and gateway functions are enabled or disabled.	
Primary NSAP, Use for OSI Connection	Displays the primary network service access point.	

Address Provisioning	Address Provisioning	
Secondary NSAP, Use for OSI Connection	Displays the secondary network service access point.	
Use TARP	Indicates whether the target identifier address resolution protocol is being used.	

### Buttons

Button	Description
Add	Use this button to add a new NE address.
Modify	Use this button to add a modify an existing NE address.
Delete	Use this button to delete an existing NE address.
Import	Use this button to invoke the Import File dialog box. Select a file to replace the existing address list on the CIT.
Export	Use this button to invoke the Export File dialog box. Select a file to export from the current <i>Address List</i> .
ОК	Use this button to apply the current changes and close this dialog box.
Cancel	Use this button to discard any changes and close this dialog box.
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.

### Procedure 4-9: Provision NE address list

### Overview

Use this procedure to add, modify, or delete a target identifier (TID) to the internet protocol (IP) address mappings.

The TIDs entered through this command will appear in the *Current NE List* on the *Administer Views* window.

### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

### Step

Complete the following steps to add, modify, or delete a target identifier (TID) to the internet protocol (IP) address mappings.

### 1 From the Network View menu, select Administration $\rightarrow$ Address List.

Result: The Address Provisioning window opens. Refer to "Address list" (p. 4-34).

The entries in the *Address List* are saved into the local file "apl.cfg" which by default is in C:/Program Files/Alcatel-Lucent/WaveStar CIT. If you had a previous version of the *WaveStar*<sup>®</sup> CIT installed prior to installing the current version of the *WaveStar*<sup>®</sup>, the installation path is C:/Program Files/Lucent Technologies/WaveStar CIT/.

2 From the *Address Provisioning* window, do one of the following:

If you want to	Then
overwrite this file or save a new address list file using a different file name,	click the <b>Export</b> button.
open a previously saved file	click the <b>Import</b> button.
provision a new address	click the <b>Add</b> button. Refer to Procedure 4-10: "Provision NE protocols" (p. 4-41).
modify an existing address	highlight a TID and click the Modify button.

If you want to	Then		
delete an address	highlight a TID and click the <b>Delete</b> button.		
load a previously saved address provisioning configuration file	click on the <b>Import</b> button.		

### Protocol provisioning

### Purpose

Use this dialog box to provision the TIDs (target identifiers), NSAPs (network service access point), and/or IP (internet protocol) addresses for NEs (network elements) that might be connected to the CIT (customer interface terminal) via OSI (open systems interconnection) or TCP/IP (transmission control protocol/internet protocol).

### Invocation

To invoke this window from the Network View main menu, follow these steps:

1. Select Administration  $\rightarrow$  Address List.

The Address Provisioning window opens.

In the *Address Provisioning* window, click the **Add** or **Modify** button.
 The *Protocol Provisioning* window opens.

### Shortcut

The shortcut key sequence to administer the address list is "Alt+A, A".

### Toolbar icon

The toolbar icon for this menu item is:

### Security

All users are authorized to access to this dialog box.

### Fields and parameters

Protocol Provisioning		
NE Name		
TID	Select the target identifier.	
NE Туре	Select the network element type.	
Vendor	Select the system vendor from the drop-down menu.	
TCP/IP Tab		
Primary or Secondary TCP/IP		
Use as default Connection	Indicate whether the primary or secondary TCP/IP address should be used to connect to the network element.	
Use as TCP/IP Gateway	Indicate whether or not the connection should be used as a gateway.	

Protocol Provisioning         Enter the four-quadrant primary or secondary IP address.           Port         Enter the primary or secondary port number.           OSI Tab         TARP Enabled           Use LDAP/TARP for OSI Connection         Select this checkbox to use LDAP (lightweight direct access protocol) or TARP (target identifier address resolution protoco connect to the NE.           Primary or Secondary OSI NSAP         Indicate whether the selected address should be used for OSI connections to this NE. If the checkbox is not selected, then ne address shall be used and instead the connection will use TARI           Provision Primary/Secondary OSI NSAP         Enter the 2 character hexadecimal (0-9 a-f) string representing AFI (authority and format identifier) portion of the NSAP.           IDI         Enter the 4 character hexadecimal (0-9 a-f) string representing IDI (initial domain identifier) portion of the NSAP.           DFI         Enter the 4 character hexadecimal (0-9 a-f) string representing IDI (initial domain identifier) portion of the NSAP.           Org         Enter the 4 character hexadecimal (0-9 a-f) string representing ORG (organization or operator identifier) portion of the NSAP.           Res         Enter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.           RD         Enter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.           RD         Enter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.           RD <t< th=""><th></th><th></th></t<>		
Primary/Secondary         Enter the four-quadrant primary or secondary IP address.           Port         Enter the primary or secondary port number.           OSI Tab         TARP Enabled           Use LDAP/TARP for OSI Connection         Select this checkbox to use LDAP (lightweight direct access protocol) or TARP (target identifier address resolution protoco connect to the NE.           Primary or Secondary OSI NSAP         Indicate whether the selected address should be used for OSI connection           Indicate whether the selected address should be used for OSI connection to this NE. If the checkbox is not selected, then ne address shall be used and instead the connection will use TARP           Provision Primary/Secondary OSI NSAP         Enter the 2 character hexadecimal (0-9 a-f) string representing AFI (authority and format identifier) portion of the NSAP.           IDI         Enter the 4 character hexadecimal (0-9 a-f) string representing IDI (initial domain identifier) portion of the NSAP.           DFI         Enter the 6 character hexadecimal (0-9 a-f) string representing ORG (organization or operator identifier) portion of the NSAP.           Res         Enter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.           RD         Enter the 4 character hexadecimal (0-9 a-f) string representing RD (routing domain) portion of the NSAP.           RD         Enter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.           RD         Enter the 4 character hexadecimal (0-9 a-f) string represe	Protocol Provisioning	
Port       Enter the primary or secondary port number.         OSI Tab       TARP Enabled         Use LDAP/TARP for OSI Connection       Select this checkbox to use LDAP (lightweight direct access protocol) or TARP (target identifier address resolution protoco connect to the NE.         Primary or Secondary OSI NSAP       Indicate whether the selected address should be used for OSI connections to this NE. If the checkbox is not selected, then ne address shall be used and instead the connection will use TARI Provision Primary/Second=V OSI NSAP         AFI       Enter the 2 character hexadecimal (0-9 a-f) string representing AFI (authority and format identifier) portion of the NSAP.         IDI       Enter the 2 character hexadecimal (0-9 a-f) string representing DII (initial domain identifier) portion of the NSAP.         DFI       Enter the 2 character hexadecimal (0-9 a-f) string representing DFI (DSP format identifier) portion of the NSAP.         Res       Enter the 6 character hexadecimal (0-9 a-f) string representing ORG (organization or operator identifier) portion of the NSAP.         RD       Enter the 4 character hexadecimal (0-9 a-f) string representing PORG (routing domain) portion of the NSAP.         Rea       Enter the 4 character hexadecimal (0-9 a-f) string representing PORG (organization or operator identifier) portion of the NSAP.         RD       Enter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.         RD       Enter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.	Primary/Secondary	Enter the four-quadrant primary or secondary IP address.
OSI Tab         TARP Enabled         Use LDAP/TARP for OSI       Select this checkbox to use LDAP (lightweight direct access protocol) or TARP (target identifier address resolution protoco connect to the NE.         Primary or Secondary OSI NSAP       Indicate whether the selected address should be used for OSI connections to this NE. If the checkbox is not selected, then ne address shall be used and instead the connection will use TARI connection VOI NSAP         Provision Primary/Secondary OSI NSAP       Enter the 2 character hexadecimal (0-9 a-f) string representing AFI (authority and format identifier) portion of the NSAP.         IDI       Enter the 4 character hexadecimal (0-9 a-f) string representing DII (initial domain identifier) portion of the NSAP field to spect the country code.         DFI       Enter the 2 character hexadecimal (0-9 a-f) string representing DII (initial domain identifier) portion of the NSAP.         Org       Enter the 6 character hexadecimal (0-9 a-f) string representing ORG (organization or operator identifier) portion of the NSAP.         Res       Enter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.         RD       Enter the 4 character hexadecimal (0-9 a-f) string representing ORG (organization or operator identifier) portion of the NSAP.         Rb       Enter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.         Rb       Enter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.         Rb       Enter the 4 character hexad	Port	Enter the primary or secondary port number.
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Use LDAP/TARP for OSI ConnectionSelect this checkbox to use LDAP (lightweight direct access protocol) or TARP (target identifier address resolution protoco connect to the NE.Primary or Secondary OSI NSAPIndicate whether the selected address should be used for OSI connections to this NE. If the checkbox is not selected, then ne address shall be used and instead the connection will use TARI Provision Primary/Secondary OSI NSAPAFIEnter the 2 character hexadecimal (0-9 a-f) string representing AFI (authority and format identifier) portion of the NSAP.IDIEnter the 4 character hexadecimal (0-9 a-f) string representing IDI (initial domain identifier) portion of the NSAP.OFFEnter the 6 character hexadecimal (0-9 a-f) string representing DFI (DSP format identifier) portion of the NSAP.OrgEnter the 6 character hexadecimal (0-9 a-f) string representing ORG (organization or operator identifier) portion of the NSAP.ResEnter the 4 character hexadecimal (0-9 a-f) string representing DFI (DSP format identifier) portion of the NSAP.RDEnter the 4 character hexadecimal (0-9 a-f) string representing ORG (organization or operator identifier) portion of the NSAP.RDEnter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.ReaEnter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.SysEnter the 4 character hexadecimal (0-9 a-f) string representing area identifier portion of the NSAP.SelEnter the the primary DSA (directory server agent) for the NSAP.	TARP Enabled	
Primary or Secondary OSI NSAPUse for OSI connectionIndicate whether the selected address should be used for OSI connections to this NE. If the checkbox is not selected, then ne address shall be used and instead the connection will use TARIProvision Primary/Secondary OSI NSAPAFIEnter the 2 character hexadecimal (0-9 a-f) string representing AFI (authority and format identifier) portion of the NSAP.IDIEnter the 4 character hexadecimal (0-9 a-f) string representing IDI (initial domain identifier) portion of the NSAP field to specifie the country code.DFIEnter the 2 character hexadecimal (0-9 a-f) string representing DFI (DSP format identifier) portion of the NSAP.OrgEnter the 6 character hexadecimal (0-9 a-f) string representing ORG (organization or operator identifier) portion of the NSAP.ResEnter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.RDEnter the 4 character hexadecimal (0-9 a-f) string representing RD (routing domain) portion of the NSAP.SysEnter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.SelEnter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.	Use LDAP/TARP for OSI Connection	Select this checkbox to use LDAP (lightweight direct access protocol) or TARP (target identifier address resolution protocol connect to the NE.
Use for OSI connectionIndicate whether the selected address should be used for OSI connections to this NE. If the checkbox is not selected, then ne address shall be used and instead the connection will use TARIProvision Primary/Secondary OSI NSAPAFIEnter the 2 character hexadecimal (0-9 a-f) string representing AFI (authority and format identifier) portion of the NSAP.IDIEnter the 4 character hexadecimal (0-9 a-f) string representing 	Primary or Secondary OS	I NSAP
Provision Primary/Secondary OSI NSAPAFIEnter the 2 character hexadecimal (0-9 a-f) string representing AFI (authority and format identifier) portion of the NSAP.IDIEnter the 4 character hexadecimal (0-9 a-f) string representing IDI (initial domain identifier) portion of the NSAP field to spect the country code.DFIEnter the 2 character hexadecimal (0-9 a-f) string representing DFI (DSP format identifier) portion of the NSAP.OrgEnter the 6 character hexadecimal (0-9 a-f) string representing ORG (organization or operator identifier) portion of the NSAP.ResEnter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.RDEnter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.AreaEnter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.SysEnter the 4 character hexadecimal (0-9 a-f) string representing area identifier portion of the NSAP.SelEnter the 4 character hexadecimal (0-9 a-f) string representing area identifier portion of the NSAP.	Use for OSI connection	Indicate whether the selected address should be used for OSI connections to this NE. If the checkbox is not selected, then nei address shall be used and instead the connection will use TARP
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OrgEnter the 6 character hexadecimal (0-9 a-f) string representing ORG (organization or operator identifier) portion of the NSAPResEnter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.RDEnter the 4 character hexadecimal (0-9 a-f) string representing RD (routing domain) portion of the NSAP.AreaEnter the 4 character hexadecimal (0-9 a-f) string representing area identifier portion of the NSAP.SysEnter the 4 character hexadecimal (0-9 a-f) string representing area identifier portion of the NSAP.SelEnter the primary DSA (directory server agent) for the NSAP.	DFI	Enter the 2 character hexadecimal (0-9 a-f) string representing to DFI (DSP format identifier) portion of the NSAP.
ResEnter the 4 character hexadecimal (0-9 a-f) string representing reserved portion of the NSAP.RDEnter the 4 character hexadecimal (0-9 a-f) string representing RD (routing domain) portion of the NSAP.AreaEnter the 4 character hexadecimal (0-9 a-f) string representing area identifier portion of the NSAP.SysEnter the 4 character hexadecimal (0-9 a-f) string representing area identifier portion of the NSAP.SelEnter the matching the primary DSA (directory server agent) for the NSAP.	Org	Enter the 6 character hexadecimal (0-9 a-f) string representing to ORG (organization or operator identifier) portion of the NSAP.
<b>RD</b> Enter the 4 character hexadecimal (0-9 a-f) string representing RD (routing domain) portion of the NSAP. <b>Area</b> Enter the 4 character hexadecimal (0-9 a-f) string representing area identifier portion of the NSAP. <b>Sys</b> Enter the MAC (media access control) address for this DCC pa which is also the system portion of the NSAP. <b>Sel</b> Enter the primary DSA (directory server agent) for the NSAP.	Res	Enter the 4 character hexadecimal (0-9 a-f) string representing the reserved portion of the NSAP.
AreaEnter the 4 character hexadecimal (0-9 a-f) string representing area identifier portion of the NSAP.SysEnter the MAC (media access control) address for this DCC pa which is also the system portion of the NSAP.SelEnter the primary DSA (directory server agent) for the NSAP.	RD	Enter the 4 character hexadecimal (0-9 a-f) string representing RD (routing domain) portion of the NSAP.
SysEnter the MAC (media access control) address for this DCC pa which is also the system portion of the NSAP.SelEnter the primary DSA (directory server agent) for the NSAP.	Area	Enter the 4 character hexadecimal (0-9 a-f) string representing area identifier portion of the NSAP.
Sel Enter the primary DSA (directory server agent) for the NSAP.	Sys	Enter the MAC (media access control) address for this DCC pa which is also the system portion of the NSAP.
	Sel	Enter the primary DSA (directory server agent) for the NSAP.

### **Buttons**

Button	Description
ОК	Use this button to apply the current changes and close this dialog box.

Button	Description
Cancel	Use this button to discard any changes and close this dialog box.
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.

### Procedure 4-10: Provision NE protocols

### Overview

Use this procedure to Provision an NE.

### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

### Address mapping type

The type of address mapping selected determines the availability of each NE for inclusion into a particular view in the *Available NE List* of the *Administer Views* window. For example, if only TCP/IP address mappings are selected, then those respective NEs can only be added to TCP/IP view types.

### NSAP field

The NSAP field is a string concatenated from the component fields. Typing in the NSAP component fields erases the previous NSAP data and fills in the combined component data. Typing in the NSAP field will not fill in the component fields because the type of NSAP entered may not be a SONET NSAP and therefore will not be parsed correctly.

#### **NSAP** address

An NSAP address has the following structure:

- IDP (Initial Domain Part) is a network domain identifier that specifies a subdomain of the global network addressing domain and identifies the network addressing authority responsible for assigning NSAP addresses in the specified subdomain. It has two parts:
  - AFI (Authority and Format Identifier) specifies the format of the IDI, the network addressing authority that is responsible for allocating values of the IDI, whether or not leading zero digits in the IDI are significant, and the abstract syntax of the DSP.
  - IDI (Initial Domain Identifier) specifies the network addressing domain from which values of the DSP are allocated, and the network addressing authority that is responsible for allocating values of the DSP from that domain. This value defines an NSAP used for SONET products. SDH products use a different IDP and the IDP defines the DSP, length and structure. If the user is provisioning an IDP value other than 39840F then the DSP fields do not apply.
- DSP (Domain Specific Part Selector) is divided into the following seven parts:
  - DFI (Domain Format Identifier) specifies the version of the DSP structure standard.
  - Org (organization) is an identifier allocated and assigned by the ANSI-administered USA Registration Authority for OSI Organization Names.
  - Res (reserved) is a space reserved for future use.
  - RD (routing domain) and the portion of the address before the routing domain, constitutes a "routing domain prefix," which summarizes information about some or all of the area addresses within a routing domain.
  - Area is an identifier within a routing domain to which the NSAP address belongs. This field and the portion of the address before the area field constitute an "area address.
  - Sys (system) is an identifier for the individual end system or intermediate system with which the NSAP or NET is associated.
  - Sel (selector) identifies a direct user of the Network Layer service, usually a Transport entity.

### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

Step		Complete the following steps to provision an NE.		
	1	From the Network View menu, select Administration $\rightarrow$ Address List.		
		<b>Result:</b> The <i>Address Provisioning</i> window opens.		
	2	Click Add.		
		Result: The Protocol Provisioning window opens.		
	3	In the <i>Protocol Provisioning</i> window, enter the TID of the NE to identify.		
	4	From the <b>NE Type</b> drop-down list, select the NE Type.		
		The list includes only the NE Types selected during the WaveStar® CIT installation.		
	5	From the <b>Vendor</b> drop-down list, select the NE vendor.		
	6	Select the type of address mapping from the following options:		
		In the TCP/IP Tab:		
		Primary TCP/IP		
		Primary TCP/IP Gateway		
		Secondary TCP/IP		
		Secondary TCP/IP Gateway		
		Primary OSI NSAP		
		Secondary OSI NSAP		
		• Enable or Disable TARP		
		In the OSI Tab:		
		Primary OSI NSAP		
		Secondary USI NSAP     Enable or Disable TAPP		

7 Click on the Modify button for each respective address mapping selected and follow these steps.

lf	Then
you want to configure a TCP/IP connection to an NE,	enter the IP address and the port number for the NE. The default port number for all NEs is 3081.
you want to configure an OSI NSAP connection to an NE,	enter the NSAP component information and details or enter the NSAP field.

8 Click OK, OK to continue or Cancel, Cancel to cancel the operation.

### Administer views

### Purpose

Use this dialog box to add, modify, or delete views on the NE (network element).

### Invocation

To invoke this window from the Network View main menu, select Administration  $\rightarrow$  Administer Views.

#### Shortcut

The shortcut key sequence to administer views is "Alt+A, V".

#### Toolbar icon

The toolbar icon for this menu item is: The toolbar icon for this menu item is:

#### Security

All users are authorized to access to this dialog box.

#### Fields and parameters

Administer Views		
TCP/IP Direct Connect Tab		
View List		
Views	Select from the list of views already defined as TCP/IP views.	
	Click <b>Modify</b> to change the name of an existing View.	
	Click <b>Delete</b> to remove the selected existing View.	
	If no Views are available, click <b>Add</b> to enter a name for the new View and click <b>OK</b> to return to <i>Administer Views</i> window.	
NE List		
Available NE List	Click Add or Add All to move any combination of entries to the <i>Current NE List</i> .	
Current NE List	Click <b>Remove</b> or <b>Remove All</b> to delete any combination of entries from the list.	
TCP/IP Gateway Tab		
View List		

Administer Views	
TCP/IP Direct Connect Tab	
Views	Select from the list of views already defined as a TCP/IP Gatewa
	Click <b>Modify</b> to change the name of an existing View.
	Click <b>Delete</b> to remove the selected existing View.
	If no Views are available, click <b>Add</b> to enter a name for the new and click <b>OK</b> to return to <i>Administer Views</i> window.
NE List	
Available NE List	Click <b>Add</b> or <b>Add All</b> to move any combination of entries to the <i>O NE List</i> .
Current NE List	Click <b>Remove</b> or <b>Remove All</b> to delete any combination of entries the list.
TCP/IP Gateway	
TID	Displays the Gateway target identifier associated with this view.
Address	Displays the provisioned 32 bit address of this gateway.
Port	Displays the provisioned port number for this gateway. Possible range from 0 - 65535.
NE List	
Available NE List	Click <b>Add</b> or <b>Add All</b> to move any combination of entries to the <i>O NE List</i> .
Current NE List	Click <b>Remove</b> or <b>Remove All</b> to delete any combination of entrie the list.
Serial Tab	
View List	
Views	Select from the list of views already defined as a Serial view.
	Click <b>Modify</b> to change the name of an existing View.
	Click <b>Delete</b> to remove the selected existing View.
	If no Views are available, click <b>Add</b> to enter a name for the new and click <b>OK</b> to return to <i>Administer Views</i> window.
NE List	
Available NE List	Click <b>Add</b> or <b>Add All</b> to move any combination of entries to the <i>C NE List</i> .
Current NE List	Click <b>Remove</b> or <b>Remove All</b> to delete any combination of entrie

Administer Views TCP/IP Direct Connect Tab View List					
		Views         Select from the list of views already defined as a OSI Provisioned			
		NE List       Available NE List       Click Add or Add All to move any combination of entries to the Curr         NE List.       NE List.			
Current NE List	Click <b>Remove</b> or <b>Remove All</b> to delete any combination of entries from the list.				

### Buttons

Button	Description
Add	Use this button to add a new view.
Modify	Use this button to modify an existing view.
Delete	Use this button to delete an existing view.
Add	Use this button to move one or any combination of NEs to the <i>Current NE List</i> .
Remove	Use this button to delete any NE from the Current NE List.
Add All	Use this button to move one or any combination of NEs to the <i>Current NE List</i> .
Remove All	Use this button to delete all NEs from the Current NE List
ОК	Use this button to apply the current changes and close this dialog box.
Cancel	Use this button to discard any changes and close this dialog box.
Import	Use this button to invoke the Import File dialog box. Select a file to replace the existing address list on the CIT.
Export	Use this button to invoke the Export File dialog box. Select a file to export from the current <i>Address List</i> .
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.

### Procedure 4-11: Administer views (add, modify or delete)

### Overview

Use this procedure to add, modify, or delete NE views.

### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

### Step

Complete the following steps to add, modify, or delete NE views.

1 From the Network View menu, select Administration  $\rightarrow$  Administer Views.

Result: The Administer Views window opens.

### 2 Choose the corresponding connection type.

lf	Then
you want to administer views of the connection type <b>TCP/IP Direct Connect</b> ,	in the <i>Administer Views</i> window select the <b>TCP/IP Direct Connect</b> tab.
you want to administer views of the connection type <b>TCP/IP Gateway</b> ,	in the <i>Administer Views</i> window select the <b>TCP/IP Gateway</b> tab.
you want to administer views of the connection type <b>OSI Provisioned</b> ,	in the <i>Administer Views</i> window select the <b>OSI</b> <b>Provisioned</b> tab.
you want to administer views of the connection type <b>Serial</b> ,	in the <i>Administer Views</i> window select the <b>Serial</b> tab.

### 3 The NE views can be administered as follows.

lf	Then
you want to add an NE view,	<ul> <li>in the group box <i>View List</i>, select Add.</li> <li>in the displayed screen, enter a name for the new view and click OK.</li> <li>in the group box <i>NE List</i>, select an NE from the <i>Available NE List</i> and click Add.</li> </ul>
you want to change the name of an existing NE view,	<ul> <li>select the respective entry in the group box <i>View List</i>, and click Modify.</li> <li>in the displayed screen, enter the new name and click on OK.</li> </ul>
you want to delete an NE view,	select the respective entry in the group box <i>View List</i> and click <b>Delete</b> .
you want to add an NE to a view,	<ul> <li>in the group box <i>View List</i>, select the view to which you want to add an NE.</li> <li>in the group box <i>NE List</i>, select the NE in the <i>Available NE List</i> and click Add.</li> </ul>
you want to add all NEs to a view,	<ul> <li>in the group box <i>View List</i>, select the View to which you want to add all NEs.</li> <li>in the group box <i>NE List</i>, click on the Add All button.</li> </ul>
you want to remove an NE from a view,	<ul> <li>in the group box <i>View List</i>, select the View from which you want to remove an NE.</li> <li>in the group box <i>NE List</i>, select the respective NE in the <i>Current NE List</i> and click <b>Remove</b>.</li> </ul>
you want to remove all NEs from a view,	<ul> <li>In the group box <i>View List</i>, select the View from which you want to remove all NEs.</li> <li>In the group box <i>NE List</i>, click on the <b>Remove All</b> button.</li> </ul>

### 4 Click OK.

Result: The Administer Views window is closed.

### Defaults

### Purpose

Use this dialog box to enter a default NE User ID and corresponding password to be used for NE connections. Also, use this dialog box to disable the current default NE User ID and password to force the system to prompt for a new User ID and password on the next connection attempt.

Enabling this option is the same as checking the **Enable these as the default values** check box in the login dialog box for connecting to an NE.

### Invocation

To invoke this window from the Network View main menu, select Administration  $\rightarrow$  Defaults.

### Security

All users are authorized to access to this dialog box.

### Fields and parameters

Defaults			
Enter NE Tab	Enter NE Tab		
NE Туре	Select the NE type from the list.		
Connection Type	Select a connection type from the list		
Login Tab			
Enable/Disable	Use this button to modify an existing view. The default is Disable and requires a user to enter an NE User ID and NE Password each time the user connects to the NE.		
	If, however, a user enters an NE User ID and NE Password, then selects Enable, and then clicks the OK button, the NE User ID and NE Password are saved. The next time that the user connects to the NE, the user ID and password will be remembered as the new default, and the user will not have to reenter this information.		
NE User ID	Enter a string of 1 - 10 characters.		

Defaults		
Enter NE Tab		
NE Password	Enter a new NE password, beginning with an alphabetic character and containing two or more non-alphanumeric characters. The maximum and minimum allowed length for a user passwords are 6 and 10 characters, respectively.	
	At least one of the non-alphanumeric characters should be selected from the list below.	
	• A single blank space	
	@ Commercial at	
	• , Comma	
	• : Colon	
	• = Equals sign	
	" Quotation mark	
	• ; Semicolon	
	• & Ampersand	
	• _ horizontal bar (underscore)	
	• ? Question mark	

### Buttons

Button	Description
ОК	Use this button to apply the current changes and close this dialog box.
Cancel	Use this button to discard any changes and close this dialog box.
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.

# Procedure 4-12: Set default login and password for NE(s) and connection type

### Overview

Use this procedure to enter a default NE User ID and corresponding password to be used for specified NE connection(s).

### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

### Step

Complete the following steps to enter a default NE User ID and corresponding password to be used for NE connections.

1 From the Network View main menu, select Administration  $\rightarrow$  Defaults.

**Result:** The *Defaults* window opens.

2 To set the default values of the left panel in the Network View, select the **Enter NE** tab.

- **3** From the **NE Type** drop-down list, select an NE.
- 4 From the **Connection Type** drop-down list, select a connection type.
- **5** To enter a default User ID and Password to be used for NE connections, select the **Login** tab.

- 6 Select/Deselect one of the following radio buttons:
  - **Enable** If a user enters an NE User ID and NE Password, then selects Enable, and clicks the **OK** button, the NE User ID and NE Password are saved. The next time that the user connects to the NE, the user ID and password will be remembered as the new default, and the user will not have to reenter this information.
  - **Disable** This is the default and requires a user to enter an NE User ID and NE Password each time the user connects to the NE.
- 7 In the New User ID text box, enter a default user ID.
- 8 In the **NE Password** text box, enter a default password.
- 9 Click **OK** to save your entries and close the window.

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## Auto router discovery

### Purpose

Use this dialog box to administer the automatic detection of router addresses.

### Invocation

To invoke this window from the Network View main menu, select Administration  $\rightarrow$  Auto Router Discovery.

### Shortcut

The shortcut key sequence to administer auto router detection is "Alt+A, R".

### Security

All users are authorized to access to this dialog box.

### Fields and parameters

RDP (Router Discovery Protocol)		
Yes	Click to change the current state of RDP as follows:	
	• If RDP is disabled, click to enable it.	
	• If RDP is enabled, click to disable it.	
No	Click to retain the current state of RDP as follows:	
	• If RDP is disabled, click to keep it disabled.	
	• If RDP is enabled, click to keep it enabled.	

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### FTP administration

### Purpose

Use this dialog box to administer the *WaveStar*<sup>®</sup> CIT FTP server. The FTP server may be started, stopped, or set to start when the *WaveStar*<sup>®</sup> CIT starts.

#### Invocation

To invoke this window from the Network View main menu, select Administration  $\rightarrow$  FTP Administration.

#### Security

All users are authorized to access to this dialog box.

### Fields and parameters

FTP Server	
Start Server	When this button is clicked the FTP server starts and the row fills in and a tabbed screen appears in the bottom section of the dialog box. The tab name is the same as the ID for each respective connection. The tab screen contains ongoing information about the download.
Stop Server	Click to stop the FTP server.
Start server on CIT startup	The FTP server will start when the WaveStar® CIT starts.
Root Server Location	Displays the path of the root server.
Change	Use this button to select a new path for the root server.
ID	A program generated number that increments for each client connection.
Status	Describes the status of that connection session.
User Name	The user ID used to establish the FTP session.
IP Address	The IP address of the client NE.
Action	Allows the user to remove the session from the list.

#### **Buttons**

Button	Description
Close	Use this button to close an information-only window.

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### Procedure 4-13: FTP server administration

### Overview

Use this procedure to Administer the *WaveStar®* CIT FTP server.

### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

### Step

Complete the following steps to start or stop the FTP server, or to set it to start when the *WaveStar*<sup>®</sup> CIT starts.

- From the Network View main menu, Select Administration → FTP Administration.
   Result: The *FTP Server* window opens.
- 2 To start an FTP download, in the FTP Server window click the Start Server button.

The FTP logo in the upper left corner of the FTP window will spin to indicate that the download is ongoing.

**Important!** If an FTP Server is already running, the CIT/FTP Server will not be invoked. A warning message will advise you to stop the FTP Server. Once it is stopped, the CIT/FTP server must be invoked again.

**Result:** A row in the table fills in and a tabbed screen appears in the bottom of the dialog box. The tab name is the same as the ID for each respective connection. The tab screen also contains ongoing information about the download.

**3** To stop the FTP Server download, click the **Stop Server** button.

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4 Click **Close** to close the dialog and return to the Network View.
# FTP browser

#### Purpose

Use this dialog box to select files for FTP transfer to the *WaveStar*<sup>®</sup> CIT server from the Network View and then make the connection to the FTP server.

#### Invocation

To invoke this window from the Network View main menu, select Administration  $\rightarrow$  FTP Browser.

#### Security

All users are authorized to access to this dialog box.

#### Fields and parameters

FTP Browser	
Server	
Path	Indicates the path to the remote FTP server. A path can be entered manually.
Name, Size, Type, Modified	Displays a list of folders, file names, sizes, types, and the date last modified from which a single or multiple files can be selected.
Local	
Path	Indicates the path to the CIT FTP client. A path can be entered manually.
Name, Size, Type	Displays a list of folders including file names, sizes, types, and the date last modified, from which a single or multiple files can be selected.
Status	Displays the FTP connection status of the FTP connection as Connected or Disconnected.

#### **Buttons**

Button	Description	
Up One Level	Use this button to go up one level in the hierarchy.	
Refresh	Use this button to refresh the screen.	
<b>Delete</b> Use this button to delete the selected file. If no file is selected or does not have the correct permissions, this button is grayed out.		
<b>Upload</b> (Transfer from CIT to FTP server)	Use this button to initiate the FTP transfer of a file from the CIT to the selected folder on the server. If no CIT file is selected, this option is grayed out.	
Download (Transfer from FTP server to CIT)	Use this button to initiate the FTP transfer of a file from the server to the selected folder on the CIT. If no server file is selected, this option is grayed out.	
Connect	Use this button to establish a connection to the server using the <i>FTP Server Connection</i> window while keeping this dialog box open.	
Disconnect	Use this button to break the connection to the server and keep the dialog box open.	
Close	Use this button to close an information-only window.	
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.	

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## Procedure 4-14: Administer FTP browser

#### Overview

Use this procedure to select files that you want to transfer between the CIT server and the FTP server.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps select files that you want to transfer between the *WaveStar*<sup>®</sup> CIT FTP client and a remote FTP server.

1 From the Network View main menu, select Administration  $\rightarrow$  FTP Browser.

**Result:** The *FTP Server Connect* window opens with the *FTP Browser* window in the background.

2 In the *FTP Server Connect* window, click **Cancel** to close the window.

Refer to "FTP server connect" (p. 4-61) for information on creating a connection to an FTP server.

- 3 In the **Server Path** field (for the remote server), either enter the path or navigate to it in the hierarchy using the "Up One Level" and "Refresh" buttons.
- 4 In the Local Path field (for the *WaveStar*<sup>®</sup> CIT FTP client), enter the client path or select it from the hierarchy using the "Up One Level" and "Refresh" buttons.
- **5** To select the files you want to transfer, use the **Upload** and **Download** buttons to move selected files between the Server list and the Local list.

6 Click **Connect** or **Disconnect** to control the connection to the server you have selected.

Result: The FTP Server Connect window opens.

**Reference:** Refer to Procedure 4-15: "Connect to FTP server" (p. 4-63) for more information on connecting to the FTP server.

END OF STEPS

# FTP server connect

#### Purpose

Use this dialog box to connect to an FTP server. You can either choose an existing connection profile, or directly enter connection information, and then initiate a connection.

#### Invocation

To invoke this window from the Network View main menu, select Administration  $\rightarrow$  FTP Browser.

**Important!** The *FTP Server Connect* and *FTP Browser* window open at the same time. See "FTP browser" (p. 4-57) for more information on the *FTP Browser* window.

#### Security

All users are authorized to access to this dialog box.

#### Fields and parameters

FTP Server Connect		
Profile NameDisplays the currently selected File Transfer profile name. O profile name by doing one of the following:		
	• Enter a new profile name of up to 20 alphanumeric characters	
	• Select from the drop-down list of all saved profile names, if available.	
Server Address: IP	Displays the IP address of the FTP server the CIT is currently using. To change to another FTP Server, enter a new IP Address. This must be a 32-bit address consisting of four dot-separated decimal numbers ranging from 0 to 255.	
Server Address: Name	Displays the current FTP Server Name. Enter a new name to change to another FTP Server. The Server IP Address and Server Address Name are mutually exclusive.	
Server Address: Port	Displays the current FTP server port number. Enter a port number for a new FTP server. The default is 21.	
User ID	Enter the login ID for the FTP connection	
User Password	Enter the password for the FTP connection. The password will be masked by asterisks as you enter it.	

#### Buttons

Button	Description	
Save	Saves an FTP Server name.	
Delete	Deletes an FTP Server name.	
Connect	Connects the FTP Server.	
Cancel	Use this button to cancel screen selections and return to the <i>FTP Browser</i> window.	
Help	Use this button to view, in a selected window, screen-sensitive help and/or task-oriented help.	

------

## Procedure 4-15: Connect to FTP server

#### Overview

Use this procedure to either choose an existing connection profile, or directly enter connection information, and then initiate an FTP server connection.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps to initiate a connection to an FTP server after either choosing an existing connection or directly entering connection information.

- 1 From the Network View main menu, select Administration  $\rightarrow$  FTP Browser.

**Result:** The *FTP Server Connect* window opens with the *FTP Browser* window in the background.

- 2 From the **Profile Name** drop-down, select a name or enter a new name.
  - .....

.....

#### 3 In the *Server Address* area, click one of the following:

- IP, and enter the IP address of the server you want to connect to.
- Name, and enter a server name and port number.
- 4 Enter a user ID and password to be used for server access.
- 5 Click **Save** to save the profile you have created.
- 6 Click **Connect** to connect to the server you have selected.

END OF STEPS

# 5 Help menu

### Overview

#### Purpose

The purpose of this chapter is to provide descriptive and procedural information for the Network View Help menu.

#### Contents

Procedure 5-1: About WaveStar® CIT	5-2
Procedure 5-2: Help index	5-3
Procedure 5-3: Supported NEs	5-4

# Procedure 5-1: About WaveStar® CIT

#### Overview

Use this procedure to display the release number, product information, and other information about the *WaveStar*<sup>®</sup> CIT.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps to display the *WaveStar*<sup>®</sup> CIT release number, product information, and other information.

------

- 1 Use one of the following methods to invoke the *Wavestar About CIT* window:
  - From the Network View menu, select  $Help \rightarrow About Wavestar CIT$ .
  - Use the shortcut key sequence "Alt+H, b".
  - Click the toolbar icon for this menu item:

Result: The Wavestar CIT About window opens.

**2** To see additional information about components, releases, and builds, click the **Details** button.

When you click the **Details** button the window expands and displays a table. Clicking the **Details** button again will hide the table.

**Results:** The window expands to display a table listing additional details about components, releases, and builds.

3 Click **OK** to close this window.

END OF STEPS

## Procedure 5-2: Help index

#### Overview

Use this procedure to access the online help utility for the *WaveStar*<sup>®</sup> CIT Network View, including the online help contents, index, and search function.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps to access the online Help utility for the *WaveStar*<sup>®</sup> CIT Network View, including the online help contents, index, and search function.

\_\_\_\_\_

1 To invoke the help utility, from the Network View menu, select  $Help \rightarrow Help$  Index.

**Result:** The help index opens in a separate browser window.

2 Select an index item or select from the following options to find additional information:

- Interface Tips
- Glossary
- Search
- **3** Click **OK** to close this window.

Еnd	ΟF	S T E P S

# Procedure 5-3: Supported NEs

#### Overview

Use this procedure to display the network elements supported by this *WaveStar*<sup>®</sup> CIT. These NEs were defined during the WaveStar<sup>®</sup> CIT installation.

#### **Required equipment**

Only a personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed is required to perform this procedure.

#### Before you begin

If not previously completed, install generic and *WaveStar*<sup>®</sup> CIT software on the PC. Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps to view the supported NEs.

1 From the Network View menu, select  $Help \rightarrow Supported NEs$ .

**Result:** An information window opens displaying the network elements that are supported.

2 Click **OK** to close this window.

END OF STEPS

# 6 Technical support

### Overview

#### Purpose

This chapter describes how to obtain technical support for your product.

#### Contents

Support services	6-2
Accessing and navigating the OLCS web site	6-3
Training	6-6

# Support services

#### Technical support

For technical support, contact your local Alcatel-Lucent customer support team. See the Alcatel-Lucent Support web site (http://alcatel-lucent.com/support/) for contact information.

#### How to order

To order Alcatel-Lucent documents, contact your local sales representative or go to the Online Customer Support (OLCS) (http://support.alcatel-lucent.com) site.

# Accessing and navigating the OLCS web site

#### Introduction

The online customer support (OLCS) web site is part of the Alcatel-Lucent Customer and Business Partner Portals (http://support.alcatel-lucent.com). The web site is designed mainly for registered customers and business partners.

#### **Registration benefits**

Depending on your service level as outlined in your customer contract, you can enjoy the following benefits as a registered user:

- Create, view, edit, delete, and share your product lists.
- Receive 24/7 technical support service to help you operate and maintain your communications network at peak performance.
- Keep current on relevant news and events with customized alerts.
- Review a library of technical documents, case studies, white papers, catalogs, industry intelligence, and expert articles to help advance your research and business practices.

The level of benefits to which you may be entitled is determined by the customer contract for your company or organization.

If your company or organization is a registered business partner, you can use the following options:

- Gain access to powerful marketing tools that help you make the most of your Alcatel-Lucent products and solutions.
- Enhance the cooperation and efficiency of your team by sharing documents and ideas in the collaboration work space.
- Create, view, edit, delete, and share your product lists.
- Draw on our extensive library of case studies, white papers, catalogs, and expert articles to advance your research and work.

#### Registering for the portals

To register for the Alcatel-Lucent Customer and Business Partner Portals (http://support.alcatel-lucent.com), proceed as follows:

- 1. Click **Register for Access**.
- 2. On the **Registration for access to Alcatel-Lucent Customer and Business Partner Portals** page, follow the steps displayed under **Registration Progress**.

You will receive an e-mail confirmation of your registration and site access privileges. Alcatel-Lucent strives for two business days or less response.

#### How the site is designed

The "My Customer Support" portal is the umbrella portal to all of the underlying content and tools. Product-specific content is organized by product. You can also gain access to content and tools by going directly to each of the underlying applications.

#### Navigating on OLCS

The following primary ways to navigate are provided on OLCS.

#### • Jump to Content Page list

This option is the primary means to navigate between "My Customer Support" home and the underlying applications or among the applications without returning home.

#### • Technical Content for portlet

This option allows easy access to product-specific content without navigating deeper into the product pages.

#### My Products

This option takes you to the **My Products** page, the access to both product-specific content and any other available applications. The names of products for which your company has service agreements or warranties are displayed on this page. If your company has purchased a number of products from Alcatel-Lucent, and you wish to shorten the list to only those products that you are responsible for, select **Manage My Products**.

• Quick access portlets

These portlets provide easy access from the home page to heavily used applications and useful support information. For example, the portlets provide quick access to the "CARES" system and the "ask AL Knowledgebase".

#### Technical support information

To locate technical support telephone numbers and e-mail contact information for your area, use the **Product Technical Support, Phone and E-mail Contact Information** drop-down menu.

#### Technical documentation on OLCS

Depending on the product, technical documentation may include:

- Manuals and guides
- Technical notes
- Release information

The **Manuals and Guides** category of documentation points directly to corporate libraries for our highest volume products. In addition to listing documents available for online viewing, the libraries may include CD-ROMs, videos, and other tangible media for purchase. The libraries use "Topic Finder" which is a search engine designed to search documents more efficiently than full text search.

# Training

#### Overview

Alcatel-Lucent offers a formal training curriculum to complement your product needs.

#### Registering for a course

To explore the available courses, enroll in a training course at one of Alcatel-Lucent's corporate training centers, or to arrange for a suitcase session at your facility, choose one of the following contact methods:

- Refer to Product Training web site (https://training.lucent.com/) for access to the training catalog
- Within the United States, call 888-582-3688 and select *Prompt 2*.
- Outside the United States:
  - Telephone: +1 407 767 2667
  - Fax: +1 407 767 2677
  - Refer to Product Training web site (https://training.lucent.com/) and click Contact Us for a detailed list of international contact numbers.
  - Contact your in-country training representative

# 7 Interface tips

### Overview

#### Purpose

The purpose of this chapter is to provide descriptive and procedural information about the help system and interface elements.

#### Contents

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# Help on help

## Overview

#### Purpose

The purpose of this section is to provide information about the help products in the *WaveStar*<sup>®</sup> CIT Network View.

#### Contents

# Help on help

#### Purpose

The *WaveStar*<sup>®</sup> CIT includes an extensive help system that is designed to consider the task you are performing and help you successfully perform the task.

In the broadest sense, this online help contains:

- Task information, which includes tasks (that is, step-by-step instructions).
- Conceptual information, which is descriptive information related to the content of windows and dialogs presented by the user interface.

The task information is based on a user needs analysis that has been performed for each activity associated with the user interface. It is context specific to any potential activity permitted from each window of the user interface. Use the task information to get a job done quickly and with minimal system impact.

The conceptual information complements and enhances the step-by-step instructions that are found in each task. Use the conceptual information to broaden your general knowledge of the details of each window or dialog presented by the user interface.

The conceptual information consists of context specific descriptions of each window of the user interface and a library of documents that provide comprehensive information about the product.

#### Help products

The four help products described in the following table can be accessed from the Help button on the different screens in the user interface.

After you select the help button, the initial help window that displays will contain a link to the title of the task along with links to each of the other online help components, as shown below. Select any of these links to display the desired help component.

Help Product	Help Button/Link	Description
Task Help	Task Title	Provides the task(s) that can be performed from the screen the user is using. Clicking a task in the list presents the actual task.
Online Document Library	Library	Presents the library of user documents, in PDF format. The document library is provided on the Customer Documentation CD-ROM. The CD-ROM is shipped with the software and separately orderable from Online Customer Support (OLCS) (https://support.lucent.com).
		In order for the library to be available from the online help and the Help menu in the <i>WaveStar</i> <sup>®</sup> CIT system view, the documents must be installed from the CD into the same directory as the <i>WaveStar</i> <sup>®</sup> CIT(one of the two installation options available).
		Not all products supported by the <i>WaveStar</i> <sup>®</sup> CIT have online help and/or online pdf libraries.
Context-Sensitive Screen Help	Description	Describes the purpose of the page (window or dialog) and a description of each field on the page.
Technical Support Help	Support	Technical support contact information.

# Help on WaveStar® CIT

### Overview

#### Purpose

This purpose of this section is to provided additional descriptive and procedural information to help you navigate in the *WaveStar*<sup>®</sup> CIT interface and to enhance your knowledge of its interface elements.

#### Contents

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# Procedure 7-1: Install software on the PC

#### Overview

Use this procedure to install the *WaveStar*<sup>®</sup> CIT software and/or the NE software generic on a personal computer (PC).

#### **Required equipment**

The following equipment is required:

- Personal Computer (PC) with at least one network interface card (NIC).
- Copy of the CD-ROM that includes the *WaveStar*<sup>®</sup> CIT software and NE software.
- Current *Software Release Description* or *Customer Release Notes* for the software generic being installed.

#### Before you begin

Before beginning the software installation procedure, complete the following steps:

- 1. Become familiar with the characteristics and operating procedures of your PC and the operating system installed.
- 2. Ensure the user is in the administrative or power user group of the PC to install, update, modify, or repair the *WaveStar*<sup>®</sup> CIT.
- 3. If your PC is equipped with multiple network interface cards (NICs), know the IP address of the NIC you will be using as the *WaveStar*<sup>®</sup> CIT interface. If you are using DHCP with multiple NICs, you may need to temporarily remove all NICs except the one you plan to use for this interface.
- 4. Operate laptop PCs on AC power during download procedures.
- 5. Ensure that a laptop PC is not docked in a docking station or port replicator. Because OSI may bind to docking station NIC, you cannot install the *WaveStar*<sup>®</sup> CIT on a PC while it is in a docking station.
- 6. Follow proper procedures in handling the CD-ROM.
- 7. Read the *Software Release Description* or *Customer Release Notes* for the software generic being installed.
- 8. Ensure that the list of supported network elements in the readme.txt file includes all the NEs and releases that you wish to manage with this release of the *WaveStar*<sup>®</sup> CIT.

To access the readme.txt file, refer to the graphic in Step 2, click **Documents**, and then click **List Contents**.

#### Steps

Complete the following steps to install the *WaveStar*<sup>®</sup> CIT software and network element software generic and on your PC.

1 Insert the CD-ROM into the PC.

Result:

The CD autoruns and the following window opens:



Rxx.xx.xx in the figure represents the *WaveStar*<sup>®</sup> CIT release number, for example R24.00.00.

If the CD-ROM does not autorun, verify that the CD is inserted properly in your CD-ROM drive.

- 1. Double-click on My Computer on your desktop.
- 2. Double-click on your Compact Disc icon (often identified as drive D:).
- 3. Double-click on setup.exe
- 2 Click continue.

**Result:** 

The following window opens:



.....

#### 3 Click CIT Software.

#### Result:

The following window appears.



#### 4 Which software package do you wish to install on your computer?

lf	Then
WaveStar <sup>®</sup> CIT software	Proceed to Procedure 7-1.1: "Install <i>WaveStar</i> <sup>®</sup> CIT software on your PC" (p. 7-11).
NE Software	Proceed to Procedure 7-1.2: "Install Network Element software on your PC" (p. 7-28).

END OF STEPS

# Procedure 7-1.1: Install *WaveStar®* CIT software on your PC

#### Overview

Use this procedure to install the *WaveStar*<sup>®</sup> CIT software on a personal computer (PC).

#### Before you begin

Before performing this procedure, complete Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

Complete the following steps to install the *WaveStar*<sup>®</sup> CIT software on your PC.

1 Click WaveStar CIT to install the *WaveStar*<sup>®</sup> CIT software.

**Result:** Either the *WaveStar CIT InstallShield* or the *WaveStar CIT maintenance installation* screen appears.

2 A screen may appear stating that the

requires items (Java and/or Microsoft C++) to be installed on your computer before the installation can continue. Follow the instructions to install these items.

**3** Do you have a previous version of the *WaveStar*<sup>®</sup> CIT installed on your computer?

lf	Then
Yes	Continue with Step 4.
No	Proceed to Step 8.

.....

4 When the following window opens, select Select to: Modify, Update, or Repair the current installation and then click Continue.

WaveStar CIT				
Welcome to the WaveStar CIT maintenance installation Select the option you want.				
Select to: Modify, Update, or Repair the current installation.				
Select to: Remove the current installation.				
Exit Continue				

#### **5** Select either

• Enable WaveStar CIT logins to require that users enter a user ID and password to login to the *WaveStar*<sup>®</sup> CIT

or

.....

• **Disable WaveStar CIT logins** to allow users to run the *WaveStar*<sup>®</sup> CIT without entering a user ID or password.

Click Next.

InstallShield Wizard				
Select Option				
The WaveStar CIT can be configured to run with or without requiring a user to login. Note: Selecting a configuration can only be done during installation.				
Enable WaveStar CIT logins				
O Disable WaveStar CIT logins				
Track-IIC Island				
< Back Next > Cancel				

- 6 Select either
  - Enable WaveStar CIT FTP Server

or

• Disable WaveStar CIT FTP Server

.....

Click Next.

WaveStar CIT - InstallShield Wizard				
CIT FTP Server				
The WaveStar CIT can be configured to automatically run the FTP server on startup.				
Start the FTP Server on startup				
O Do not start the FTP Server on startup				
InstallShield				
< Back Next > Cancel				

If the *WaveStar*<sup>®</sup> CIT FTP Server is disabled during installation, the FTP Server must be started manually from the Network View menu, Administration  $\rightarrow$  FTP Administration.

7 Do you see the *Reboot Required* screen illustrated below?

lf	Then
Yes	The <i>WaveStar</i> <sup>®</sup> CIT installer has detected an older version of the <i>WaveStar</i> <sup>®</sup> CIT on your PC which must be removed prior to the new <i>WaveStar</i> <sup>®</sup> CIT installation. Select " <b>Yes, I want to</b> <b>restart my computer now</b> ." Click <b>OK</b> . After your computer reboots, restart the installation from Step 1.
No	Proceed to Step 13.

.....



8 When the *InstallShield*<sup>®</sup> Wizard appears, click **Next**.



**9** Follow the instructions on the different *InstallShield*<sup>®</sup> Wizard windows, including reading and agreeing to the following two License Agreements.

WaveStar CIT - InstallShield Wizard					
License Agreement Please read the following license agreement carefully.					
Press the PAGE DOWN key to see the rest of the agreement.					
ALCATEL-LUCENT SOFTWARE LICENSE AGREEMENT THE ENCLOSED SOFTWARE IS LICENSED TO CUSTOMERS FOR THEIR USE ONLY ON THE TERMS SET FORTH BELOW. BY INSTALLING THIS SOFTWARE, YOU AGREE TO BE BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT ACCEPT THE TERMS, PROMPTLY RETURN THIS SOFTWARE PACKAGE AND ACCOMPANYING MATERIALS TO THE PLACE WHERE YOU OBTAINED THEM FOR A FULL REFUND.					
Do you accept all the terms of the preceding License Agreement? If you select No, the setup will close. To install WaveStar CIT, you must accept this agreement. InstallShield					
< Back Yes No					

Click Yes.

WaveStar CIT - InstallShield Wizard	×
License Agreement Please read the following license agreement carefully.	A A
Press the PAGE DOWN key to see the rest of the agreement.	
Java(tm) Runtime Environment Binary Code License	
Do you accept all the terms of the preceding License Agreement? If you select No, the setup will close. To install WaveStar CIT, you must accept this agreement.	Print
< Back Yes	No

#### Click Yes.

- 10 Select where you want the *WaveStar*<sup>®</sup> CIT software installed on your PC.
  - Click **Next** to select the default Destination Folder: C:/Program Files/Alcatel-Lucent/. If you had a previous version of the *WaveStar*<sup>®</sup> CIT installed, the installation path is C:/Program Files/Lucent Technologies/.

.....

OR

• Click **Browse** and navigate to your desired directory and then click **Next**.

WaveStar CIT - InstallShield Wizard			×	
Choose Destination Location			and and a second	
Select folder where setup will install files.				
Setup will install WaveStar CIT in the following folder.				
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.				
Destination Folder				
C:\Program Files\Alcatel-Lucent			Browse	
InstallShield				
	< Back	Next >	Cancel	

#### **11** Select either

• Enable WaveStar CIT logins to require that users enter a user ID and password to login to the *WaveStar*<sup>®</sup> CIT

or

• **Disable WaveStar CIT logins** to allow users to run the *WaveStar*<sup>®</sup> CIT without entering a user ID or password.
Click Next.

InstallShield Wizard
Select Option
The WaveStar CIT can be configured to run with or without requiring a user to login. Note: Selecting a configuration can only be done during installation.
Enable WaveStar CIT logins
O Disable WaveStar CIT logins
InstallShield
< Back Next > Cancel

- **12** Select either
  - Enable WaveStar CIT FTP Server

or

• Disable WaveStar CIT FTP Server

Click Next.

WaveStar CIT - InstallShield Wizard
CIT FTP Server
The WaveStar CIT can be configured to automatically run the FTP server on startup.
Start the FTP Server on startup
O Do not start the FTP Server on startup
InstallShield
< Back Next > Cancel

If the *WaveStar*<sup>®</sup> CIT FTP Server is disabled during installation, the FTP Server must be started manually from the Network View menu, **Administration**  $\rightarrow$  **FTP Administration**.

- **13** Select the components you wish to install:
  - Network View
  - CutThrough View
  - BWM Graphical Package
  - SANE Graphical Package
  - **1665/1850 Graphical Package** installs the *WaveStar*<sup>®</sup> CIT packages for Alcatel-Lucent 1665 DMX, Alcatel-Lucent 1665 DMXtend, Alcatel-Lucent 1665 DMXplore, and Alcatel-Lucent 1850 TSS-5
    - 1665 On-Line Help Files

If you do not wish to install online help for any of the Alcatel-Lucent 1665 products (Alcatel-Lucent 1665 DMX, Alcatel-Lucent 1665 DMXtend, Alcatel-Lucent 1665 DMXplore), you may uncheck the **1665 On-Line Help Files** box.

Alcatel-Lucent 1850 TSS-5 does not include online help in this release.

- UNITE Graphical Package installs the *WaveStar*<sup>®</sup> CIT package for Alcatel-Lucent 1675 LambdaUnite MSS.
  - Unite On-Line Help Files

If you do not wish to install online help for Alcatel-Lucent 1675 LambdaUnite MSS, you can uncheck the **UNITE On-Line Help Files** box.

WaveStar CIT - InstallShield Wizard	×
Select Features Select the features setup will install.	
Select the features you want to install, and deselect the fe Vetwork View CutThrough View BWM Graphical Package SANE Graphical Package SANE Graphical Package I665/1850 Graphical Package UNITE Graphical Package UNITE On-Line Help Files	atures you do not want to install. Description Network View
261.15 MB of space required on the C drive 21669.96 MB of space available on the C drive InstallShield K Bac	< Next > Cancel

**Important!** The initial component selections that appear are based on the previous installation.

To save valuable disk space and reduce installation time, you can deselect graphical packages for all products that you do not plan to manage with this *WaveStar*<sup>®</sup> CIT.

*Space Required on "C":* indicates the space required to install you selected components. (If you specified an installation location other than Drive C, "C" may be a different drive.) If you had a previous version of the *WaveStar*<sup>®</sup> CIT installed on your computer and you are not changing your selected components, the *Space Required on "C":* is zero. In this situation, the components are already resident on the computer, therefore no additional space required when performing an upgrade. If any additional (new) packages are selected, the space required for those specific packages is displayed.

------

#### 14 Click Next.

**Result:** The following screen appears. Confirm your component selection Your list of selected components may be different than this screen.

Question	×
2	You have selected the following components: Cut Through Network View 1665/1850 1665 On-Line Help Files UNITE UNITE On-Line Help Files BWM SANE Do you want to continue? Yes No

#### 15 Click Yes.

#### Result:

You are prompted with the choice to install OSI (Open System Interconnect) communications protocol.

Question	×			
?	You have the option to install OSI			
	Open System Interconnect (OSI) is a communication protocol used to communicate between the CIT and the Network Element.			
	The CIT supports OSI, TCP/IP, and for some products Serial. If you choose to not install OSI you will still be able to use TCP/IP and Serial.			
	Note: Selecting to not install OSI will cause the removal of OSI if already installed.			
	Do you want to install OSI with this application?			
	Yes No			

16 If you wish to install OSI click **Yes**, otherwise, click **No**.

.....

**Result:** The following progress indicator screen appears while the *InstallShield*<sup>®</sup> Wizard installs the required files.

.....

InstallShield Wizard	×
Setup Status	
WaveStar CIT Setup is performing the requested operations.	
Installing: Network View files	
6%	
InstallShield	
	Cancel

17 If you wish to copy the NE software to your PC, select **Yes** on the following screen.



#### **18** Did you select Yes or No in Step 17?

If	Then
Yes	Continue with Step 19.
No	If you wish to install the NE software later, refer to Procedure 7-1.2: "Install Network Element software on your PC" (p. 7-28). Proceed to Step 20.

19 A Copying files, please wait window appears. When the window closes, the software files are successfully copied into the generics directory on your PC. By default, this directory is C:/Program Files/Alcatel-Lucent/WaveStar CIT/generics/product>/ <release>, however, the actual directory is determined by the path defined in Step 10.

#### 20 In Step 16, did you elect to install OSI?

lf	Then
No	Continue with Step 21.
Yes	Proceed to Step 24.

21 When the following screen appears, the installation without OSI is complete.

WaveStar CIT - InstallShield Wizard					
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed WaveStar CIT.				
	< Back Finish Cancel				

#### 22 Click Finish.

**Result:** The following icon appears on your desktop. Click this short-cut icon to launch the *WaveStar*<sup>®</sup> CIT.



#### **23** Proceed to Step 26.

24 When the following screen appears, the installation with OSI is complete.



25 Important! Before using your new *WaveStar*<sup>®</sup> CIT, you *MUST* reboot your computer.

Select Yes, I want to restart my computer now. and click Finish.

**Result:** The following icon appears on your desktop. After you restart your PC, click this short-cut icon to launch the *WaveStar*<sup>®</sup> CIT.



.....

**26 Important!** The *InstallShield*<sup>®</sup> Wizard may create temporary folders/files in the PC system *Temp* folder. Temporary folders/files stored in the PC system *Temp* folder decrease available disk free space and may affect system performance.

If desired, close all open applications running on the PC and delete the appropriate temporary folders/files from the system *Temp* folder.

The *Temp* folder is defined by the TEMP system variable. It can be on any hard drive, but is usually defined as *c:/Temp*.

Windows operating systems provide disk cleanup utilities that can be used to remove temporary folders/files.

In Windows XP, to start the Disk Cleanup:

- 1. Select Start  $\rightarrow$  Programs  $\rightarrow$  Accessories  $\rightarrow$  System Tools  $\rightarrow$  Disk Cleanup.
- 2. Select the drive you wish to cleanup (likely C:) Click  $\mathsf{OK}$ .
- 3. Disk Cleanup calculates the amount of disk space that can be recovered and runs.
- 4. Disk Cleanup calculates the amount of disk space that can be recovered. Select the files you wish to clean up and click **OK**.
- 5. Click **Yes** in the confirmation window. The files are deleted and the window closes.

In Windows 7, to start the Disk Cleanup utility:

- 1. Click the **Start** button and type **disk cleanup** in the search box.
- 2. Click Disk Cleanup and select the drive you wish to cleanup (likely C:) Click OK .
- 3. Disk Cleanup calculates the amount of disk space that can be recovered. Select the files you wish to clean up and click **OK**.
- 4. Click **Delete Files**. The selected files are deleted and the window closes.

END OF STEPS

## Procedure 7-1.2: Install Network Element software on your PC

#### Overview

Use this procedure to install the Network Element software on your personal computer (PC).

#### Before you begin

Before performing this procedure, complete Procedure 7-1: "Install software on the PC" (p. 7-6).

#### Step

1 In the *WaveStar CIT CD Browser* window, click on NE Software, click NE Software (Copy the NE Software to the PC) on the right.

Result: A Copying files, please wait window appears.

- 2 When the window closes, the software files are successfully copied into the generics directory on your PC. By default, this directory is C:/Program Files/Alcatel-Lucent/WaveStar CIT/generics/roduct>/<release>, however, the actual directory is determined by the path defined in Step 10 of Procedure 7-1.1: "Install WaveStar<sup>®</sup> CIT software on your PC" (p. 7-11).
- **3** Do you wish to install the *WaveStar*<sup>®</sup> CIT software?

lf	Then
Yes	Proceed to Procedure 7-1.1: "Install <i>WaveStar</i> ® CIT software on your PC" (p. 7-11).
No	Stop! End of Procedure.

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## Procedure 7-2: Troubleshooting connectivity issues

#### Overview

If you cannot log in to your shelf, follow this procedure to isolate your connectivity issue.

#### **Required equipment**

This procedure requires the following equipment:

• Personal Computer (PC) with *WaveStar*<sup>®</sup> CIT software installed.

Refer to Procedure 7-1: "Install software on the PC" (p. 7-6),

- Wrist strap
- At least one of the following cables is required:
  - RS-232 cable with an RJ-45 connector on one end and a PC serial connector on the other (typically DB9) for the RS232 port.
  - CAT5 Ethernet straight-through or a cross-over cable for the LAN port.

If you are connecting the PC directly to the NE, use the LAN 10Base-T cross-over cable. If you are connecting the PC directly to a hub, use the LAN 10Base-T straight-through cable.

#### Before you begin

Prior to performing this procedure:

- 1. Complete Procedure 7-1: "Install software on the PC" (p. 7-6).
- 2. If *WaveStar*<sup>®</sup> CIT logins were enabled during installation, obtain a valid user ID and password for the *WaveStar*<sup>®</sup> CIT.
- 3. Obtain a valid user ID and password for the required network element.
- 4. Obtain the Target Identifier (TID)/NE name of the network element that you are establishing a *WaveStar*<sup>®</sup> CIT session with.
- 5. If establishing a *WaveStar*<sup>®</sup> CIT session with a network element using TCP/IP protocol, obtain the required IP address of the network element or gateway network element (if applicable).
- 6. If establishing a *WaveStar*<sup>®</sup> CIT session with a network element using OSI protocol, obtain the required NSAP address of the network element (if applicable). Also refer to the *CIT OSI Neighbors* view and *Address List* from the *WaveStar*<sup>®</sup> CIT Network View.

Step

1 Open the *WaveStar*<sup>®</sup> CIT and connect to your NE following the product-specific documentation for your NE via OSI.

#### 2 Were you able to connect to your NE?

If	Then
Yes	Stop! End of Procedure.
No	Continue with Step 3.

**3** Verify that the cable is connected from PC LAN connection to system controller LAN port and Link Light is established.

**Note:** If you are connecting the PC directly to the NE, use the LAN 10Base-T cross-over cable. If you are connecting the PC to a hub, use the LAN 10Base-T straight-through cable.

4 Try to connect to the NE again. Were you able to connect to your NE?

lf	Then
Yes	Stop! End of Procedure.
No	Continue with Step 5.

5 Are you using a Cisco VPN?

lf	Then
Yes	1. Log out of the VPN.
	2. Reboot you computer. Do not log in to the VPN.
	3. Launch the <i>WaveStar</i> <sup>®</sup> CIT.
	4. Repeat Step 4.
No	Continue with Step 6.

.....

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- 6 Verify some parts of the *WaveStar*<sup>®</sup> CIT installation:
  - The PC was undocked when the *WaveStar*<sup>®</sup> CIT was installed. Because OSI may bind to docking station NIC, you cannot install the *WaveStar*<sup>®</sup> CIT on a PC while it is in a docking station.
  - You selected appropriate packages (that match your NE).
  - OSI was installed

If necessary, reinstall the *WaveStar*<sup>®</sup> CIT and correct any problems.

7 Try to connect to the NE again. Were you able to connect to your NE?

lf	Then
Yes	Stop! End of Procedure.
No	Continue with Step 8.

- 8 Verify that OSI Function is enabled on LAN-1 of node. OSI is enabled on LAN-1 by default for new installations. If your NE is not a new installation, log in serially or via TCP/IP to check and reprovision if necessary.
- **9** Try to connect to the NE again. Were you able to connect to your NE?

lf	Then
Yes	Stop! End of Procedure.
No	Continue with Step 10.

10 Verify the correct OSI/Network Card is selected.

**Reference:** Procedure 4-8: "Select OSI/network card" (p. 4-33)

11 Try to connect to the NE again. Were you able to connect to your NE?

lf	Then
Yes	Stop! End of Procedure.
No	Continue with Step 12.

- 12 Toggle 802.1p or QoS Packet Tagging on Network Adapter Advanced Properties. Generally, *WaveStar*<sup>®</sup> CIT requires that 802.1p be enabled; Broadcom 570X NIC must be enabled.
- **13** Try to connect to the NE again. Were you able to connect to your NE?

lf	Then
Yes	Stop! End of Procedure.
No	Toggle 802.1p or QoS Packet Tagging on Network Adapter Advanced Properties back to original settings. Continue with Step 14.

- **14** Disable Firewire (1394 adapter) and/or Wireless and/or Air Card Network Adapters that are not being used.
- 15 Try to connect to the NE again. Were you able to connect to your NE?

lf	Then
Yes	Stop! End of Procedure.
No	Continue with Step 16.

- **16** Remove IPv6 operations from Wired LAN Network Adapter 8.
- 17 Try to connect to the NE again. Were you able to connect to your NE?

lf	Then
Yes	Stop! End of Procedure.
No and your operating system is Microsoft <i>Windows</i> <sup>®</sup> XP or 7	Proceed to Step 18.

**18** Disable McAfee NDIS intermediate filter parameter on LAN card.

**19** Try to connect to the NE again. Were you able to connect to your NE?

lf	Then
Yes	Stop! End of Procedure.
No	Continue with Step 20.

- 20 Update your Network and Video Drivers to the latest versions.
- **21** Try to connect to the NE again. Were you able to connect to your NE?

lf	Then
Yes	Stop! End of Procedure.
No	Continue with Step 22.

- 22 Search the Microsoft *Windows*<sup>®</sup> web-site (http://www.microsoft.com/) for the latest service pack patches for your operating system.
- **23** Try to connect to the NE again. Were you able to connect to your NE?

lf	Then
Yes	Stop! End of Procedure.
No	Continue with Step 22.

24 Uninstall your *WaveStar*<sup>®</sup> CIT, reboot, and then re-install *WaveStar*<sup>®</sup> CIT.

Refer to Procedure 7-1: "Install software on the PC" (p. 7-6).

**25** Try to connect to the NE again. Were you able to connect to your NE?

lf	Then
Yes	Stop! End of Procedure.
No	Continue with Step 22.

------

#### **26** If available, connect using the Serial connection.

#### 27 Try to connect to the NE again. Were you able to connect to your NE?

lf	Then
Yes	Stop! End of Procedure.
No	Continue with Step 22.

#### **28** Use a different PC, if available

**29** Try to connect to the NE again. Were you able to connect to your NE?

lf	Then
Yes	Stop! End of Procedure.
No	Contact technical support.

END OF STEPS

## Elements of the WaveStar® CIT

#### Overview

This section describes:

- The layout and structure of the *WaveStar*<sup>®</sup> CIT **Network View** window, its menus, and sub-menus
- The elements of the *WaveStar*<sup>®</sup> CIT user interface
- How to get help/information on items that are displayed on the *WaveStar*<sup>®</sup> CIT windows
- How to display the system defaults for a particular component.

#### WaveStar<sup>®</sup> CIT components

The WaveStar® CIT graphical user interface (GUI) is comprised of:

- Network View window
- System View window
- Cut-Through window
- Input and output windows for displaying and entering data
- Notification windows that are displayed to inform you, for example, about the termination of a function or to have entries confirmed.

#### Elements of the Network View window

The Network View window contains the following window bars:

- The title bar: shows the *WaveStar*<sup>®</sup> CIT version, for example 17.05.00.
- The menu bar: contains the main menu of *WaveStar*<sup>®</sup> CIT.
- The status bar: displays information relevant in the current situation
  - IP Settings
  - ID of currently logged in user.
  - Computer time settings, correlated to the local time.
- The toolbar: provides short-cut buttons for common menu options.
- NE icons view

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The following figure illustrates the WaveStar® CIT Network View window.

Title Bar ———	📌 WaveStar CIT Release 17.05.00	- 🗆 🗵
Menu Bar ————	File Edit View Network Element Administration Help	
Tool Bar ————	🚚 🕼 📮 📮 🖳 🖾 📽 🙀 🦯 Tews 📰 list 🛒 🗗	
Current Icon View		
Icon Panel Selection ——	View: TCP/IP Direct Connect >>	
Icon Sizing Lever ·		
TID/NE Name Field	NE Name:	
NE Type Field ———	NE Type: DMX I LT-DMX LT-DMXtend	
Connection Type Field ——	Connection Type: TCP/IP	
Graphical System View ——►	Graphical	
TL1 System View ———	ТL1	
	Established NE Associations	
Active Login Sessions ——		
	IP Settings 🕮 🛛 7/18/07 1	1:04 AM
CurrentActive Login	X X	
Date and Time	/	

## WaveStar® CIT toolbar

#### Overview

The toolbar provides short-cut buttons for common menu options. The *WaveStar*<sup>®</sup> CIT supports tool-tips.

**Important!** Tool tips can be disabled by selecting  $View \rightarrow Preferences$ , selecting the **Display** tab, and checking **Hide sub-menus Tooltips**.

#### Functions of the toolbar icons

To determine the meaning of a particular toolbar icon, place the cursor over that icon, hold for two seconds, and its name/function displays (tool tip).

The following table lists the buttons of the *WaveStar*<sup>®</sup> CIT toolbar.

Number	Tool Tip	Equivalent Menu
1	Exit CIT	$File\toExit$
2	Refresh Directory	$\textbf{View} \rightarrow \textbf{Refresh OSI View}$
3	Large icon view	$\mathbf{View} \rightarrow \mathbf{Large} \ \mathbf{Icons}$
4	Small icon view	$View \to Small \; Icons$
5	Connect to NE	Network Element $ ightarrow$ Graphical
6	Disconnect from NE	Network Element $\rightarrow$ Disconnect from NE
7	TL1 view	Network Element $\rightarrow$ TL1
8	NE Properties	Network Element $\rightarrow$ Properties
9	Find	Network Element $\rightarrow$ Find
10	Prepare PCMCIA	$\textbf{Administration} \rightarrow \textbf{Prepare PCMCIA Disks}$
11	Administer Views	$\textbf{Administration} \rightarrow \textbf{Administer Views}$
12	Address List	$\textbf{Administration} \rightarrow \textbf{Address List}$
13	CIT About	$Help \to About \; WaveStar \; CIT$
14	Supported NEs	$Help \to Supported \; NEs$

#### WaveStar® CIT Network View toolbar

The following figure illustrates the *WaveStar*<sup>®</sup> CIT Network View toolbar.

- <b>N</b>	ţ.	Q	Q.		о Х-о		P	<b>3</b>		<b>N</b> VIEWS	LIST	8	87
1	2	3	4	5	6	7	8	9	10	11	12	13	14

#### User-defined toolbar settings

To customize the Network View toolbar, see "Network View preferences" (p. 2-7)

## Network View menu structure

#### Overview

The following table gives an overview where you can find the related description of the *WaveStar*<sup>®</sup> CIT Network View window menu structure.

Menu function		Submenu				
File	Save Settings					
	Login as New User					
	Exit					
Edit	Copy Icon(s) To					
View	ONNS View Alcatel-Lucent 1675 Lamb	daUnite MSS only				
	Refresh OSI View					
	Large Icons					
	Small Icons					
	Arrange Icons	NE Name				
		NE Type				
	Preferences					
Network Element	Graphical					
	TL1					
	<b>Disconnect from NE</b> (only accessible if connection to NE already established)					
	<b>Disconnect from All NEs</b> (only accessible if connection to NE already established)					
	Find					
	Properties					

Menu function		Submenu				
Administration	View CIT Administration					
	<b>Change Password</b> (not available if <i>Di</i> while installing the CIT)	<b>Change Password</b> (not available if <i>Disable WaveStar CIT Logins</i> was selected while installing the CIT)				
	Security (not available if <i>Disable</i>	View User Logins				
	<i>WaveStar CIT Logins</i> was selected	User Provisioning				
	while histaning the erry	Change Superuser Login ID				
	Prepare PCMCIA Disks					
	Data Communications					
	Serial COM Selection					
	OSI/Network Card Assignment					
	Address List					
	Administer Views					
	Defaults					
	Auto Router Discovery					
	FTP Administration					
	FTP Browser					
Help	About WaveStar CIT					
	Help Index					
	Supported NEs					

## Standard window components

#### Overview

For the creation of input and output windows as well as the notification windows standard window components were used.

#### Diagram

The following diagram illustrates the standard window components.



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#### Functions of the window elements

The functions of the window elements are as follows:

Window element	Function
Text box	A text box allows you to enter a text via the keyboard.
Information field	An information field is read-only. It only displays data.
List box	A list box contains read-only data in list form. To scroll through a list you have to use the scroll bar at the right of the list box.
Radio button	A radio button functions as an on/off switch. If the radio button is pressed (on) the option next to it is selected. If it is not pressed (off), the option next to it has no meaning. Only one of the several radio buttons in a group box can be pressed at any one time.
Group box	A group box is used to indicate that a set of radio buttons or check buttons inside this box are logically related or to assign an additional title to the elements that are inside the group box.
Drop-down list box	A drop-down list box allows you to enter data by selecting an entry from a list that drops down after clicking on the triangle on the right of the box.
Button	The text of the button explains which function will be initiated when clicking on it. Buttons like <b>OK</b> , <b>Cancel</b> , <b>Close</b> , or <b>Apply</b> are available in most of the windows. These general buttons and their functions are explained below.
Check box	A check box functions as an on/off switch. If the check box is checked (on) the option next to it is selected. If it is not checked (off), the option next to it has no meaning. There is no limitation on how many check boxes in a group box can be pressed at the same time.
Spin box	A spin box only allows a limited set of discrete ordered input values. You have to use the up and down arrows to increment or decrement the value.
Tab	A window can contain several tabs. Clicking on a tab displays the corresponding contents in the window.
Progress Bar	A progress bar shows the percentage of completion of a lengthy operation, e.g. when loading software.

Window element	Function
Table	The table element is often used for reports, alarm lists, etc. The table element provides you with several possibilities to configure the contained data according to your individual needs:
	• re-sizing of columns This is done by positioning the cursor on the right border of the column heading cell, pressing the left mouse button and dragging the cell border to the desired position.
	• rearrangement of the columns This is done by positioning the cursor on the column heading cell, pressing the left mouse button and dragging the cell to the desired position.
	• sorting of the whole table depending on the selected column This is done by left-clicking on the respective column heading cell. The sort order depends on the column contents. For example, alarm descriptions will be sorted alphabetically (az), time and date will be sorted chronologically, alarm severity will be sorted in the order "critical", "major", "minor", "not alarmed".

#### Example: Table element

The following figure shows an example for the table element: The *NE Alarm List* window. This example uses an alarm list from Alcatel-Lucent 1665 DMX.

📌 NE Alarm I	The Alarm List - DMX-1						
Alarm Level	AID	Date	Time	Effect on Service	Probable Cause	Alarm Entity Type	Description
Critical	m1-1-7	7/28/04	4:09:30 PM	SA	AIS	STS1	inc. STS1 AIS
Critical	m1-1-8	7/28/04	4:09:30 PM	SA	AIS	STS1	inc. STS1 AIS
Critical	m1-1-1	7/28/04	4:09:27 PM	SA	AIS	STS1	inc. STS1 AIS
Critical	m1-1-2	7/28/04	4:09:27 PM	SA	AIS	STS1	inc. STS1 AIS
Critical	m1-1-3	7/28/04	4:09:27 PM	SA	AIS	STS1	inc. STS1 AIS
Critical	m1-1-4	7/28/04	4:09:27 PM	SA	AIS	STS1	inc. STS1 AIS
Critical	m1-1-5	7/28/04	4:09:27 PM	SA	AIS	STS1	inc. STS1 AIS
Critical	m1-1-6	7/28/04	4:09:27 PM	SA	AIS	STS1	inc. STS1 AIS
Critical	c-v1	7/28/04	4:09:27 PM	SA	LOS	VCG	inc. VCG failed
Critical	d-v3	7/28/04	4:09:27 PM	SA	LOS	VCG	inc. VCG failed
Critical	b-v1	7/28/04	4:05:39 PM	SA	LOS	VCG	inc. VCG failed
Minor	m2-1-7	7/28/04	4:09:30 PM	NSA	AIS	STS1	inc. STS1 AIS
Minor	m2-1-8	7/28/04	4:09:30 PM	NSA	AIS	STS1	inc. STS1 AIS
Minor	m2-1-1	7/28/04	4:09:27 PM	NSA	AIS	STS1	inc. STS1 AIS
Minor	m2-1-2	7/28/04	4:09:27 PM	NSA	AIS	STS1	inc. STS1 AIS
Minor	m2-1-3	7/28/04	4:09:27 PM	NSA	AIS	STS1	inc. STS1 AIS
Minor	m2-1-4	7/28/04	4:09:27 PM	NSA	AIS	STS1	inc. STS1 AIS
Minor	m2-1-5	7/28/04	4:09:27 PM	NSA	AIS	STS1	inc. STS1 AIS
Minor	m2-1-6	7/28/04	4:09:27 PM	NSA	AIS	STS1	inc. STS1 AIS
Not Alarmed	m1-1-1	7/28/04	4:09:27 PM	SC	LOM	STS1	inc. STS-1 LOM
Not Alarmed	m1-1-2	7/28/04	4:09:27 PM	SC	LOM	STS1	inc. STS-1 LOM
Not Alarmed	m1-1-3	7/28/04	4:09:27 PM	SC	LOM	STS1	inc. STS-1 LOM
Not Alarmed	m1-1-4	7/28/04	4:09:27 PM	SC	LOM	STS1	inc. STS-1 LOM
Not Alarmed	m1-1-5	7/28/04	4:09:27 PM	SC	LOM	STS1	inc. STS-1 LOM
Not Alarmed	m1-1-6	7/28/04	4:09:27 PM	SC	LOM	STS1	inc. STS-1 LOM
Not Alarmed	m1-1-7	7/28/04	4:05:39 PM	SC	LOM	STS1	inc. STS-1 LOM
Not Alarmed	m1-1-8	7/28/04	4:05:39 PM	SC	LOM	STS1	inc. STS-1 LOM
Not Alarmed	b-v1	7/28/04	8:19:08 AM	SC	MISC	COM	inc. VCG LFD
4							
		Save As	Print	Refresh	Close	Help	]

.....

## General navigation in the WaveStar® CIT

#### Purpose

The *WaveStar*<sup>®</sup> CIT allows navigation through menus and screens via the mouse or the keyboard.

#### Navigation with the mouse

The mouse may be used to navigate through a menu or select an item in a window. To select a menu item or an item in the window, move the cursor by moving the mouse and click with the left button of the mouse when the cursor points to the desired item.

In the System View, you may also click on various parts of the graphical view, such as an individual circuit pack or a port. Move the cursor by moving the mouse and click the right button of the mouse to display a menu specific to that pack or port.

#### Navigation with the keyboard

Access keys (also called shortcut keys or mnemonic keys) enable navigation with the keyboard, rather than with the mouse. The access key for a particular menu item or control is the character that is underlined.

To invoke a menu item or control, first press the **ALT** key to enable keyboard navigation, and *then* press the access key. For example, the keyboard sequence for **View**  $\rightarrow$  **Equipment** is **ALT** (The V in View is now underlined), then **v**, then **p**.

To display the mnemonic for the *WaveStar*<sup>®</sup> CIT, press the **ALT** key, which also enables keyboard navigation/control.

**Important!** A feature of Windows XP is keyboard navigation hiding, which hides the underlined mnemonic.

To enable mnemonic display for a PC using Windows XP:

- 1. Select Start  $\rightarrow$  Settings  $\rightarrow$  Control Panel.
- 2. Select **Display**, then the **Appearance** tab and click **Effects**.
- 3. Deselect *Hide underlined letters for keyboard navigation until I press the Alt key* and click **OK**.

In Windows 7 is keyboard navigation is hidden by default. To enable mnemonic display for a PC using Windows 7:

- 1. Open the Control Panel, and select *Ease of Access Center*.
- 2. Click on Make the keyboard easier to use.
- 3. Under *Make it easier to use keyboard shortcuts*, select *Underline keyboard shortcuts and access keys*.

### Title bar components

#### Title bar components

All input and output windows and the main window of *WaveStar*<sup>®</sup> CIT include a title bar consisting of the following:

- Window title
- Minimize button
- Maximize button
- Close button

#### Title bar figure

The following figure illustrates an example of a title bar and its buttons.

Title Bar	Menu Bar	Minimize Bu	utton
$\backslash$	$\backslash$	$\backslash$	
WaveStar CIT Release 13.01.00			
File Edit View Network Element Administration Help			
	Max	imize Button	Close Button

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# Procedure 7-3: Minimizing a window and opening a minimized window

Step

1 If you want to minimize a window, click with the left button of the mouse on the minimize button in the upper right corner of the window.

**Result:** The minimized window appears on the Windows operating system task bar.

2 If you want to open a minimized window, click with the left button of the mouse on the minimized window on the task bar to open it again.

END OF STEPS

## Procedure 7-4: Maximizing a window and reducing a maximized window

#### Step

1 To maximize a window, click with the left button of the mouse on the maximize button in the upper right corner of the window.

Important! You cannot move or resize a maximized window.

**Result:** After maximizing, the "square" in the maximize button becomes "two little squares".

2 To reduce a maximized window, click with the left button of the mouse on the maximize button with the "two little squares" in the right corner of the window.

You may also double-click with the left button of the mouse on the window title area to maximize a window or to get the normal size of the window.

END OF STEPS

## Procedure 7-5: Closing a window

#### Step

1 To close a window, click with the left button of the mouse on the close button in the upper right corner of the window to close the window.

Result: Closing the Network View window exits the *WaveStar*® CIT.

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## Procedure 7-6: Moving a window

#### Step

1	To move a window, press the left button of the mouse on the window title area.
2	Keep the left button of the mouse pressed and move the window to the place you wish on the screen.
3	Release the left button of the mouse to place the window.

## Procedure 7-7: Resizing a window

#### Step

1	To resize a window, move the mouse pointer to the border of the window.
	<b>Result:</b> The cursor changes from its default shape to a line with arrows. The arrows indicate in which direction you can move the window border.
2	Press the left button of the mouse.
3	Drag the window border to the new size.
4	Release the left button of the mouse. <b>Result:</b> The window is now changed to the new size.
	END OF STEPS

### General buttons

buttons	
This section explains the general buttons that are p	part of many <i>WaveStar</i> <sup>®</sup> CIT windows.
Wherever they appear, they have the same function	n and lead to the same reaction.

#### Apply

**Overview** 

The **Apply** button allows you to commit changes in a dialog without closing the dialog. This control is useful in situations where a number of separate edit operations are to be invoked. It ensures that you do not have to keep invoking the edit window for each operation. An example is where you have to provision a number of cross-connections separately. No changes are applied to a network element until the **Apply** or **OK** button is selected.

#### Cancel

Close

OK

The <b>Cancel</b> button discards any	changes and closes the dialog.
---------------------------------------	--------------------------------

The Close button closes an information-only window.

#### The **OK** button applies the current changes and closes the dialog box.

Refresh

If a window has been open for a while, the data displayed may no longer be up-to-date. The **Refresh** button allows you to obtain the most recent information.

#### Save

The **Save** button closes an information-only window, and returns you to the Network View.

#### Save As

Selecting the **Save As** button prompts you for a file name where *WaveStar*<sup>®</sup> CIT shall store all data retrieved for the current window in ASCII format. The data stored includes visible data and data that is invisible on the screen such as data accessible via a scroll bar.

#### Print

The **Print** button, (for example: in a report window) allows you to send the contents of the report (the data visible on the screen as well as data that is invisible such as data accessible via a scroll bar) to your specified printer.

.....
# Glossary

В	<ul><li>Button</li><li>The text of the button explains which function will be initiated when clicking on it. Buttons like</li><li>OK, Cancel, Close, or Apply are available in most of the windows.</li></ul>
С	Check box A check box functions as an on/off switch. If the check box is checked (on) the option next to it is selected. If it is not checked (off), the option next to it has no meaning. There is no limitation on how many check boxes in a group box can be pressed at the same time.
	CIT Craft Interface Terminal
	Cut-Through An ASCII interface to an NE which enables the user to send TL1 messages directly to the NE with no interpretation or assistance provided by the CIT GUI.
D	<b>Directory Name Server (DNS)</b> A server used by TCP/IP to find the IP address of an NE using the NE's TID.
	Drop-down list box A drop-down list box allows you to enter data by selecting an entry from a list that drops down after clicking on the triangle on the right of the box.
F	<b>FTP</b> File Transfer Protocol
G	<b>Group box</b> A group box is used to indicate that a set of radio buttons or check buttons inside this box are logically related or to assign an additional title to the elements that are inside the group box.
1	<b>Information field</b> An information field is read-only. It only displays data.

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### L LDAP

Lightweight Direct Access Protocol

#### List box

A list box contains read-only data in list form. To scroll through a list you have to use the scroll bar at the right of the list box.

#### N NE

Network Element

### **NE Connection Panel**

NE Connection Panel refers to the left-hand panel of the network View screen which enables the user to select a connection type to be used in connecting to an NE.

#### Network Element (NE)

A network element such as Alcatel-Lucent 1665 DMX or Alcatel-Lucent 1675 LambdaUnite MSS.

## **Network View**

Network View refers to the screens and menu options used to set up an association with NEs or to administer the CIT GUI itself.

#### NSAP

Network Service Access Points

#### NVM

Nonvolatile Memory

#### O OSI

Open Systems Interconnection

#### P PCMCIA

.....

Personal Computer Memory Card International Association

#### R Radio button

A radio button functions as an on/off switch. If the radio button is pressed (on) the option next to it is selected. If it is not pressed (off), the option next to it has no meaning. Only one of the several radio buttons in a group box can be pressed at any one time.

## S S5

Superuser Authorization Level

## Spin box

A spin box only allows a limited set of discrete ordered input values. You have to use the up and down arrows to increment or decrement the value.

## T Tab

A window can contain several tabs. Clicking on a tab displays the corresponding contents in the window.

## Target Identifier (TID)

A provisionable parameter that is used to identify a particular Network Element within a network. It is a character string of up to 20 characters where the characters are letters, digits, or hyphens (-).

## TARP

TID Address Resolution Protocol

## Text box

A text box allows you to enter a text via the keyboard.

## TID

**Target Identifiers** 

## TL1

Command Line Interface

Glossary

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