

**Eurotherm**<sup>®</sup>

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**by Schneider** Electric

# Network Explorer Help Manual

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## 1. Introduction

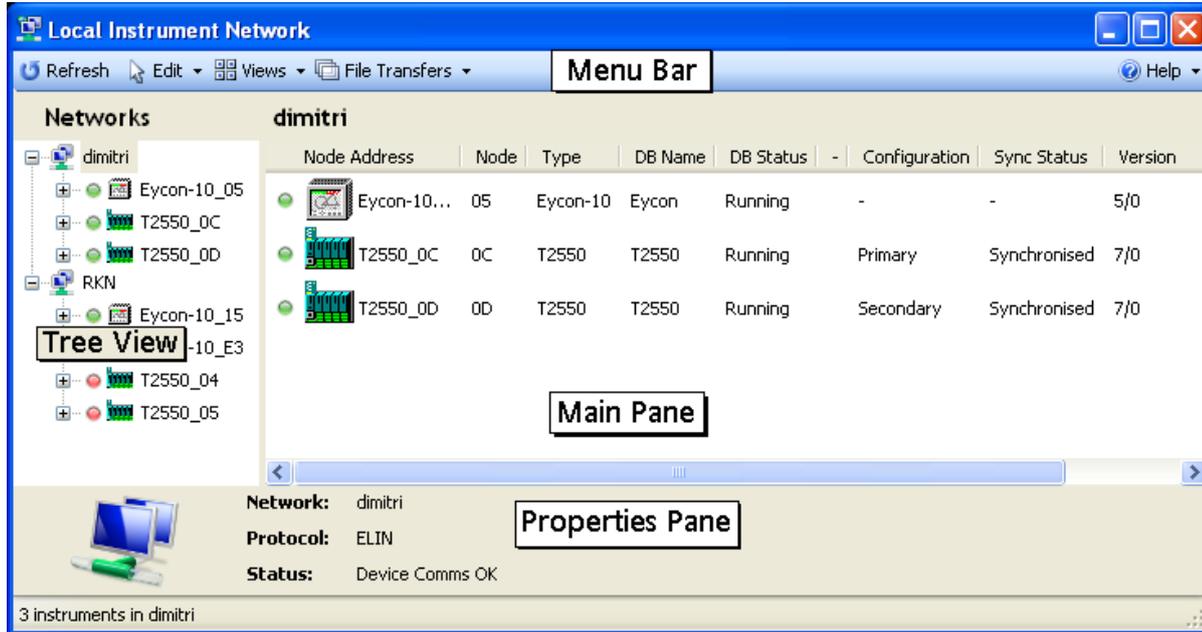
The Network Explorer allows browsing of LIN based networks and provides the ability to start and stop instruments, to manipulate files etc. The Explorer is opened by clicking on the 'Network Explorer' item (shown below) in the Eurotherm PAC Utilities folder, in the Start menu.



This document refers to Network Explorer version 1.7.

## 1.1 Initial screen

During the start-up process, the software scans for any Eurotherm Networks and associated instruments on the same communications network as that of the host pc, and displays them as shown below. If there are no networks found, one or more new ones can be created using the '[Ports Configuration...](#)' Edit menu item.

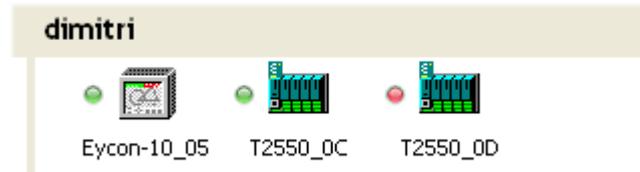


This screen is divided into a number of areas: the menu bar at the top, the [tree view](#) to the left, the [main pane](#), and the [properties pane](#) and [status bar](#) at the bottom. Each of these areas is described in more detail in further topics.

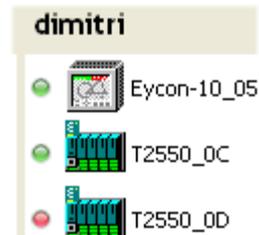
As can be seen, in the example above, there are two networks ('dimitri' and 'RKN'). By default, the first network in the tree (dimitri in our example) is highlighted and its contents shown in the main pane and its details in the Properties pane. The instruments in the main pane are listed in Node Name order by default, but this can be changed by clicking on any of the other column headings.

By default, the screen appears in what is called 'Detail' view, as shown above. Alternative views, as shown below, can be selected from the 'Views' menu:

**Large Icon:** The Main pane contains a horizontal display of icons in node number order, as shown below.



**List:** The Main Pane contains a vertical display of icons in node number order, as shown below.



### 1.1.1 Status indicators

These are 'LED' indicators which appear to the left of each instrument to give a visual representation of its current status.

-  Amber: the instrument is starting or stopping. This colour is also used when the instrument has an error but still running a strategy (for example, during a "Synchronised, secondary worse" condition).
-  Green: the instrument is running
-  Grey: the instrument currently has no database loaded
-  Red: the instrument is stopped and/or there is an error present

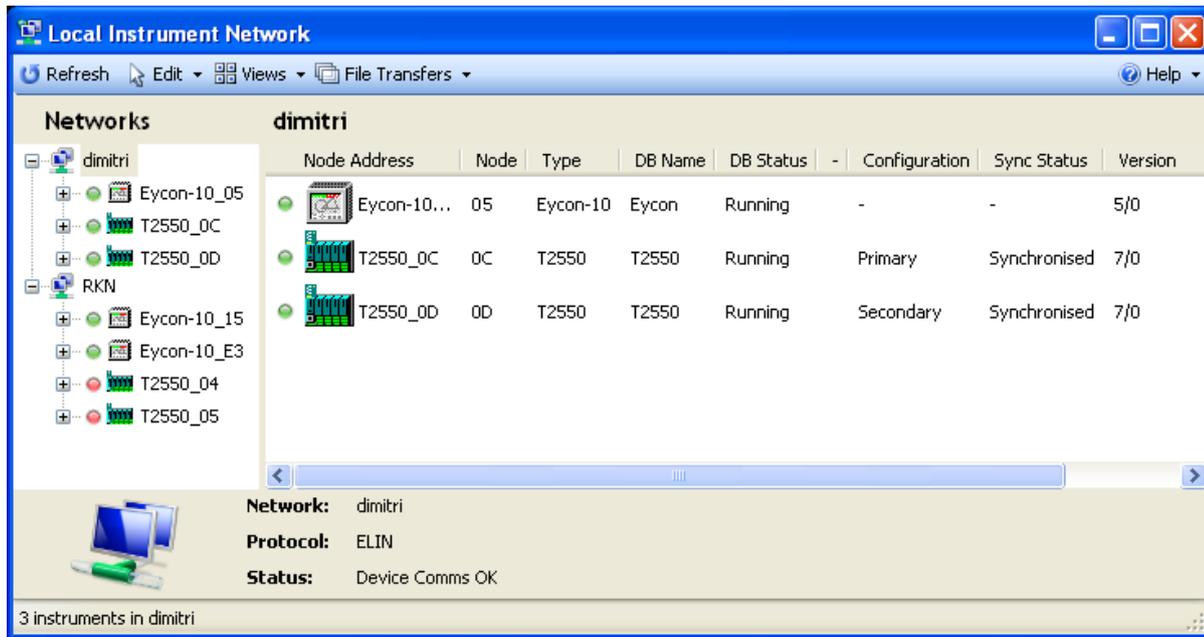
## 2 Display elements

### 2.1 Main Pane

The Main pane display can be used to carry out a wide range of operations such as Starting and Stopping instrument databases, downloading databases, and transferring files from the host pc to the instrument and *vice-versa*.

#### 2.1.1 Network view

The default network view shows the instruments contained within the currently highlighted (clicked on) network. Alternative view styles are selectable from the 'Views' menu.



- Node Address** This column gives the Instrument type including the node number as set up in the instrument's communications configuration. By default, the instruments are listed in alphabetic Node Name order. This order can be reversed by clicking on the Node Name header, or the instruments can be sorted by another column order (e.g. Node') by clicking on that column's header.
- Node** The node addresses of the instruments. This allows the instruments to be listed in Node address order rather than by Node Name if required.
- Type** The instrument type
- DB Name** The name of the database currently loaded in the instrument.
- DB Status** The current status of the database (e.g. running). If the status is in the process of changing (e.g. it is currently running but a 'Stop' command has been issued), then an animated circle  appears alongside the DB status field.
- Configuration** For redundant pair instruments the configuration is given as 'Primary' or 'Secondary' as appropriate. Where there is more than one redundant pair of identical instruments, each pair has contiguous node addresses, so it should be clear which secondary 'belongs' to which primary.
- Sync Status** For redundant pair operation, the primary and secondary processors can be either synchronised or unsynchronised. If this status is changing (either as a manual request or as a result of a fault being detected) then an animated circle  appears alongside the DB status field.

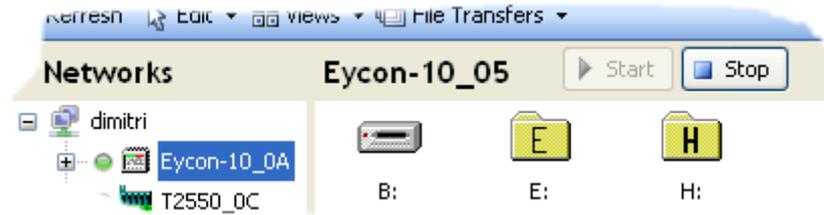
In addition, for instruments that permit the secondary subsystem health to be worse than the primary but remain synchronised (eg T2750 v4/0 and above), the Sync Status column can also display "Synchronised, secondary worse". It is recommended that the instrument's

log file (for example, health.udz or event.udz) be inspected for further information, and/or refer to the instrument's User Guide.

Version The software version of the instrument software

### 2.1.2 Instrument view

Clicking on an instrument in the tree view, causes the Main pane display to change to show the memory drives contained within the instrument. These vary from instrument to instrument.



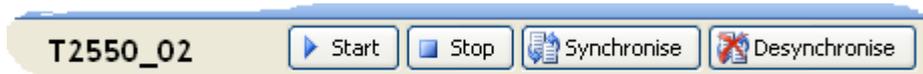
B This represents a removable storage device - typically a USB 'memory stick'.

E This is the main Flash memory of the instrument

H This is an area of memory devoted to history files.

Double clicking on any of these icons causes the Network Explorer to read the files from that drive and to display them in the main pane. At the same time, the instrument is 'expanded' in the tree view.

### Control buttons



Start This button allows the user to start the instrument database if it not already running. The button is disabled (greyed) if the database is already running

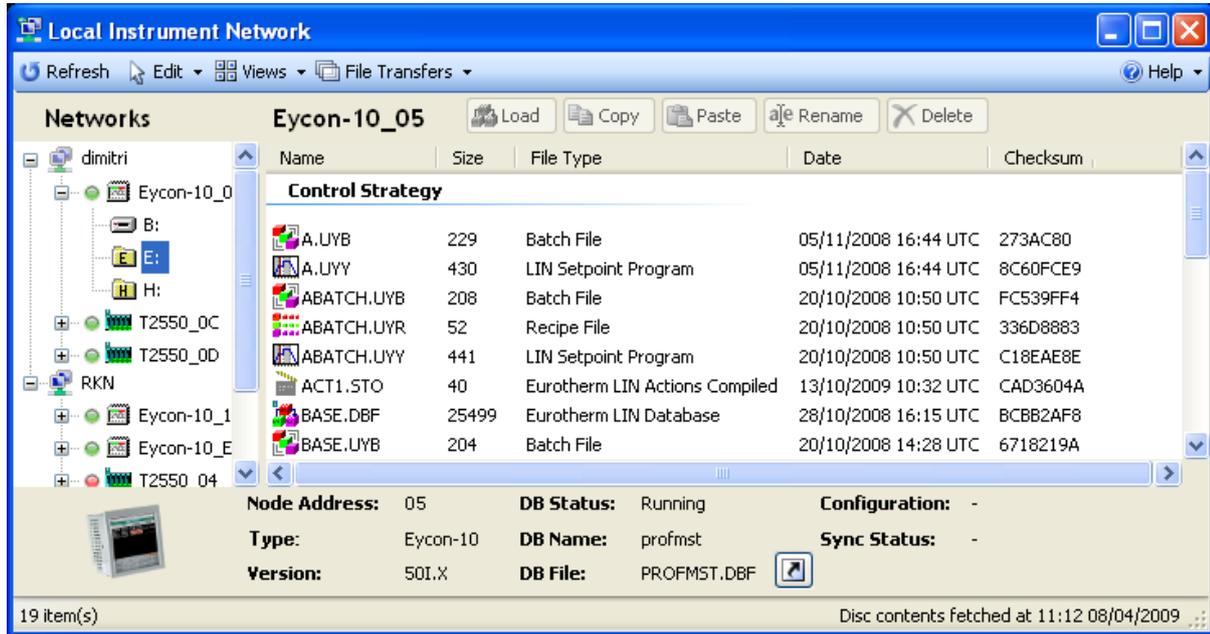
Stop This button allows the user to stop the instrument database if it is running. The button is disabled (greyed) if the database is not running.

Synchronise This appears only for instruments which are configured as a redundant pair. Clicking on the button requests a synchronisation attempt for a redundant pair of instruments. The button is disabled (greyed) if the instruments are already synchronised.

Desynchronise This appears only for instruments which are configured as a redundant pair. Clicking on the button requests desynchronisation for a redundant pair of instruments. The button is disabled (greyed) if the instruments are already desynchronised.

### 2.1.3 File view

Double clicking a drive icon in the main pane, or single clicking on a drive icon in the tree view causes the Explorer to read the file contents of that drive and display it in the main pane. (This may take a few seconds). The example below shows the content of an Eycon-10 E drive.



The view above shows the default 'Details' view of the files with 'Show Grouped' enabled.

Most of the column headings are self explanatory. The time suffix (UTC in the above example) shows the locale time according to the clock setting in the instrument.

Clicking on a file enables those editing tools relevant to the file type. These tools (Copy, Delete etc.) are also available from the (right-click) context menu, from the Edit menu and by using the relevant shortcut.

- Load**                      Active only for database files, this causes the selected database (.dbf) file to be loaded into the current instrument and started.
- Copy**                      Copies the selected file to the pc clipboard. Shortcut: <Ctrl> + <C>.
- Paste**                      Copies the contents of the clipboard (if compatible) into the instrument. Shortcut: <Ctrl> + <V>. 'Paste' becomes enabled only when a file has been copied from a pc folder to the pc clipboard.
- Rename**                    Allows the user to rename the instrument files. Shortcut: Function key <F2>. This facility should be used with prudence, and it is recommended that a backup of the drive be taken before files are renamed
- Delete**                    Deletes the currently highlighted file(s). Sortcut: <Delete>. This facility should be used with prudence, and it is recommended that a backup of the drive be taken before files are deleted.

## 2.2 Menu Bar

The menu bar contains menus and other items for operating the Explorer software.



Refresh	Performs a scan to detect connected instruments or networks.
Edit	Contains Copy, Paste, Delete etc. functions as well as port configuration and additional options. See the <a href="#">Edit menu</a> topic for details.
Views	Allows the user to choose one of a number of ways of displaying data in the main pane. See the <a href="#">Views menu</a> topic for typical examples.
File Transfers	Allows the copying of files between the host pc and the currently selected instrument. See the <a href="#">File Transfers</a> menu topic for further details
Help	Gives access to this Help system, and includes an 'About' window showing the software version of this copy of Network Explorer.

## 2.3 Properties Pane

The following are examples of typical properties panes:

### 1. Instrument Properties - T2550.

	<b>Node Address:</b> 0C	<b>DB Status:</b> Running	<b>Configuration:</b> Primary
	<b>Type:</b> T2550	<b>DB Name:</b> T2550	<b>Sync Status:</b> Synchronised
	<b>Version:</b> 70I.p	<b>DB File:</b> T2550.DBF 	

### 2. Instrument Properties - Eycon-10

	<b>Node Address:</b> 05	<b>DB Status:</b> Running	<b>Configuration:</b> -
	<b>Type:</b> Eycon-10	<b>DB Name:</b> Eycon	<b>Sync Status:</b> -
	<b>Version:</b> 50I.X		

### 3. Network properties

	<b>Network:</b> dimitri
	<b>Protocol:</b> ELIN
	<b>Status:</b> Device Comms OK

#### 2.3.1 Go to DB File

 If an instrument is being viewed in File view, (as in the T2550 example above) an additional item 'DB File:' appears, giving the name of the current database file. Associated with this is a 'Go To' button, which when clicked on highlights the database file in the file list.

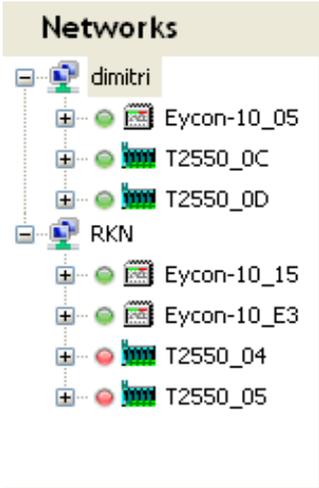
## 2.4 Status Bar

The Status Bar at the bottom of the Explorer window gives brief, context sensitive details of current or recent events.

The following are typical examples:

19 item(s)	Disc contents fetched at 11:12 08/04/2009
Eycon-10_05 has 3 drives	
4 instruments in dimitri	

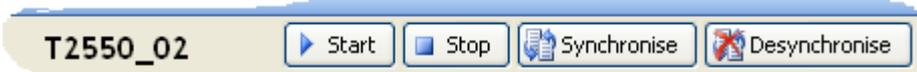
## 2.5 Tree View



Initially, the tree view shows the networks connected to the pc, and the active instruments within each network. If instruments are subsequently powered up or down, or added to or removed from a network, the changes will be detected by the application, but the 'Refresh' key menu bar item can be used to initiate an immediate scan.

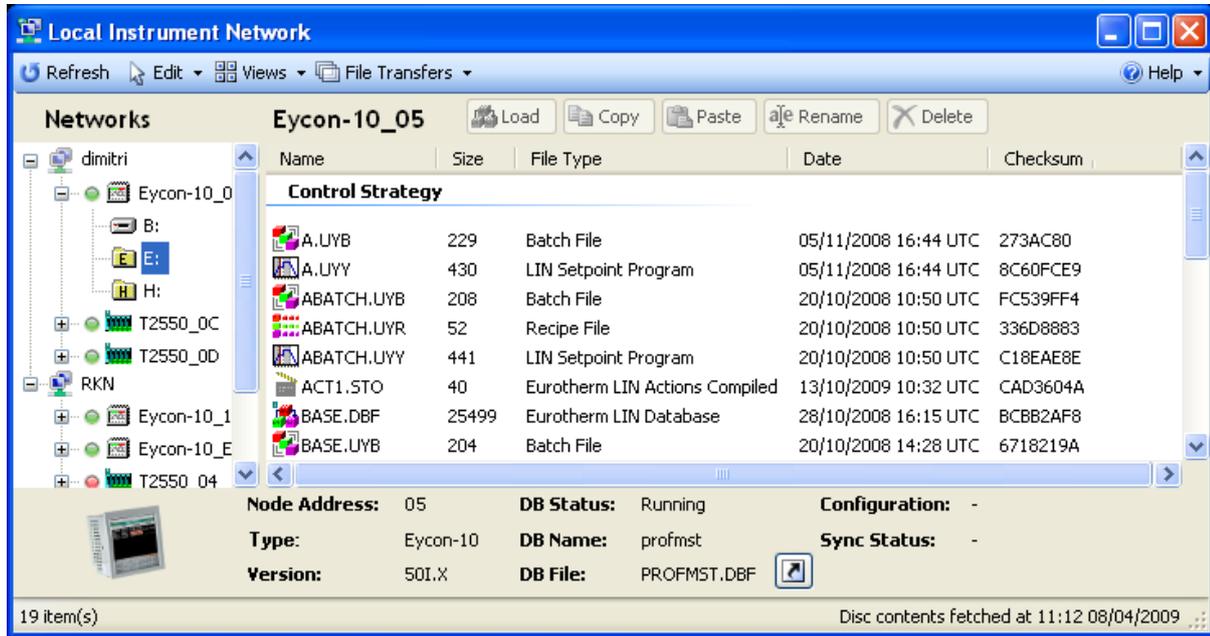
Clicking once on any instrument changes the main pane view for that instrument to show the memory drives within it (typically B, E and H). At the same time, Start and Stop keys appear ('greyed' as appropriate) allowing the current database to be started or stopped if required. In the example below, the database is already running, so the 'Start' key is disabled ('greyed').

If the instrument is capable of running as part of a redundant (duplex) pair, the tool buttons 'Synchronise' and 'Desynchronise' also appear to allow the user to synchronise or desynchronise the redundant pair if required. In the example below, the pair is already synchronised, so the 'Synchronise' key is disabled ('greyed').



## 2.6 Accessing instrument files

Clicking on the  icon next to an instrument expands that instrument to show the folders within it in the tree. Clicking on any of these folders causes the main pane to display the files contained in this folder (this may take some seconds). This allows files to be copied and pasted, databases to be loaded etc. as described in 'Main Pane'.



By default, the items are shown as 'Detail' and 'Grouped' according to type, as shown in the example above. Using the 'Views' menu bar item allows the file contents to be displayed in the following alternative ways:  
 'Detail' and not 'Show grouped'

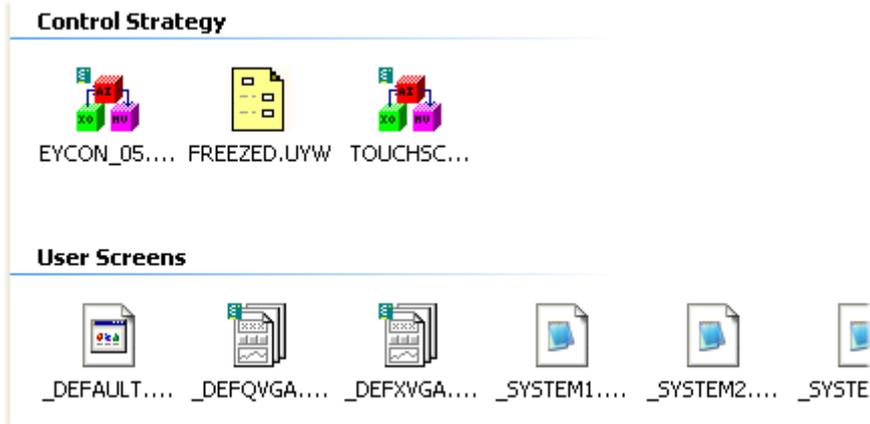
As for 'Detail' and 'Show Grouped' above, but listed (without being grouped) in alphabetical order (where a leading underscore comes first). Items can be listed in a different order by clicking on the required column heading.

Name	Size	File Type	Date	Checksum
_DEBUG.OPT	107	Instrument Options File	11/06/2009 09:04 UTC	4389FA74
_DEFAULT.UYX	168	uyx	20/11/2009 16:04 UTC	8F1B5B8C
_DEFQVGA.OFL	28544	Eurotherm User Screen OIFL file	20/11/2009 16:04 UTC	2A9028BA
_DEFXVGA.OFL	29343	Eurotherm User Screen OIFL file	20/11/2009 16:04 UTC	9889DE11
_PFC.UYK	802	uyk	03/12/2009 12:12 UTC	2F7909D1
_SYST10.UYL	43128	Panel Text Dictionary	20/11/2009 16:04 UTC	D0DFFB9B
_SYST10.UYQ	76416	uyq	20/11/2009 16:04 UTC	7D212BFD
_SYSTEM.OPT	2540	Instrument Options File	20/03/2009 15:54 UTC	A2BF0CBF
_SYSTEM.UID	677	uid	06/08/2009 11:01 UTC	21E78436
_SYSTEM.UYM	447	Eurotherm LIN TCP Properties	20/03/2009 15:54 UTC	8E70E50E

## 2.6 ACCESSING INSTRUMENT FILES (cont.)

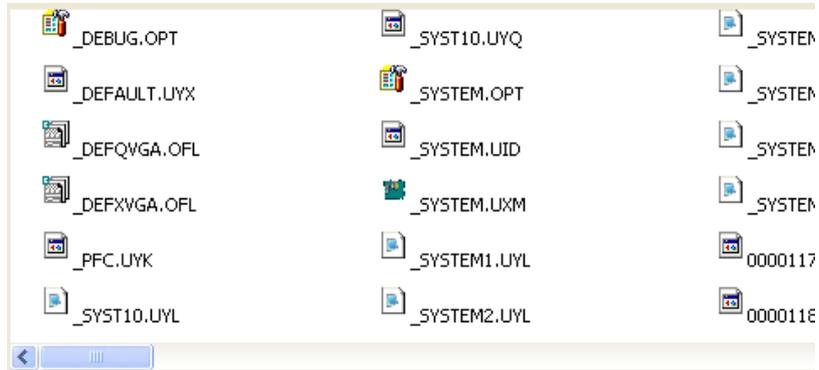
Large Icon

Shows the files as icons, in groups. This view cannot be shown 'ungrouped'



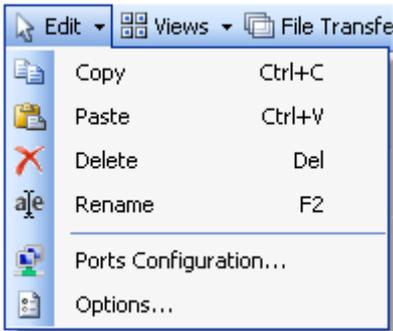
List

Shows the files as a alphabetical list. 'Show Grouped' is not available with this view.



## 3 Menus

### 3.1 Edit Menu

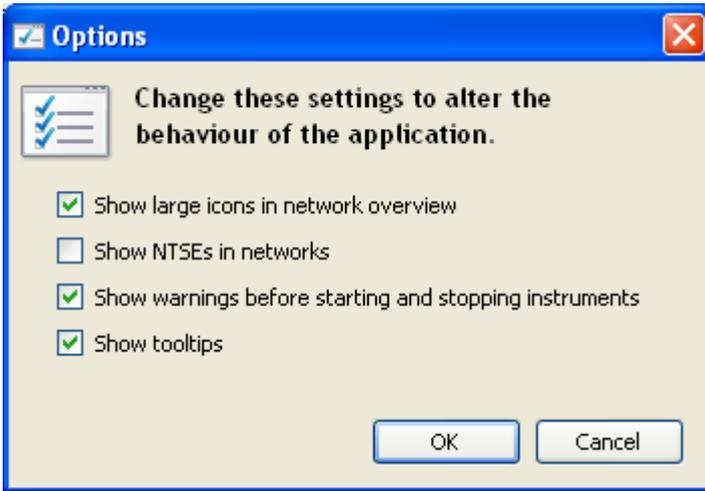


#### 3.1.1 Edit Functions

- Copy** Copies the selected file to the pc clipboard. Shortcut: <Ctrl> + <C>.
- Paste** Copies the contents of the clipboard (if compatible) into the instrument. Shortcut: <Ctrl> + <V>. 'Paste' becomes enabled only when a file has been copied from a pc folder to the pc clipboard.
- Delete** Deletes the currently highlighted file(s). Shortcut: <Delete>. This facility should be used with prudence, and it is recommended that a backup of the drive be taken before files are deleted.
- Rename** Allows the user to rename the instrument files. Shortcut: Function key <F2>. This facility should be used with prudence, and it is recommended that a backup of the drive be taken before files are renamed
- Ports Configuration...** Opens the LIN Ports Editor contron panel applet, allowing the user to create new networks. See topic '[Port Configuration](#)' for details.

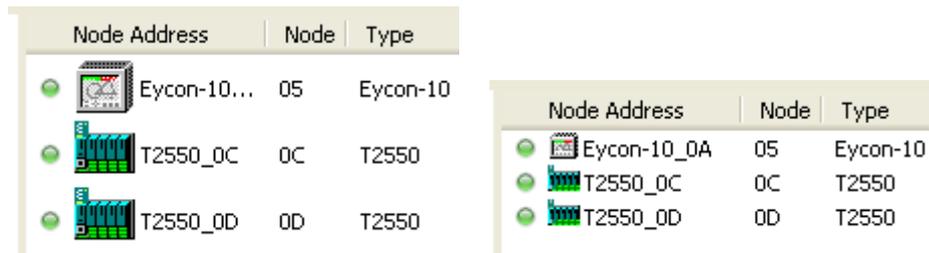
### 3.1.2 Options

Clicking on 'Options...' causes the Options enable box to appear:



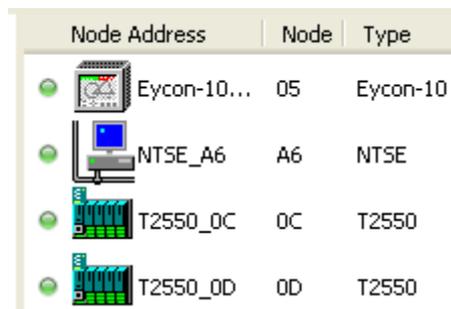
Show large icons in network overview.

Default overview uses large icons as shown in the left-hand image below. Unticking this item causes the display to appear with smaller icons (right-hand image).



Show NTSEs in networks

Shows the pcs connected to the network, allowing their node addresses to be determined if required.



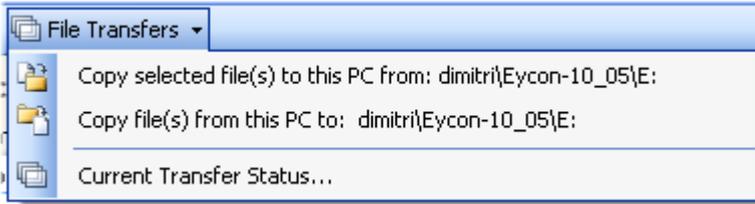
Show warnings before starting and stopping instruments

If enabled, a confirmation is required before an instrument database is stopped or started. If disabled, databases can be stopped or started without confirmation.

Show tooltips

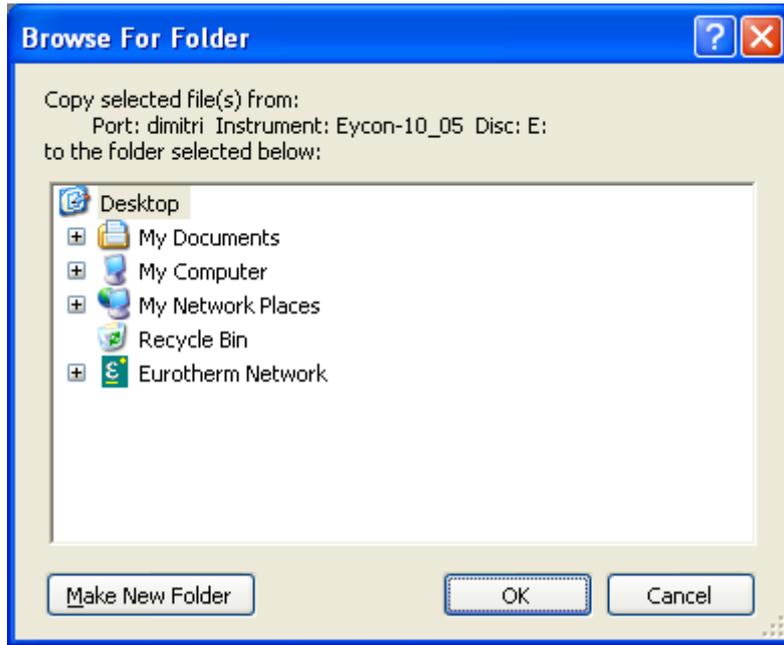
Toggles tooltips on and off.

### 3.2 File Transfers Menu



Copy selected file(s) to this PC from: .....

Opens a Browse window allowing the user to specify the destination, within the host pc, to which the file(s) are to be copied

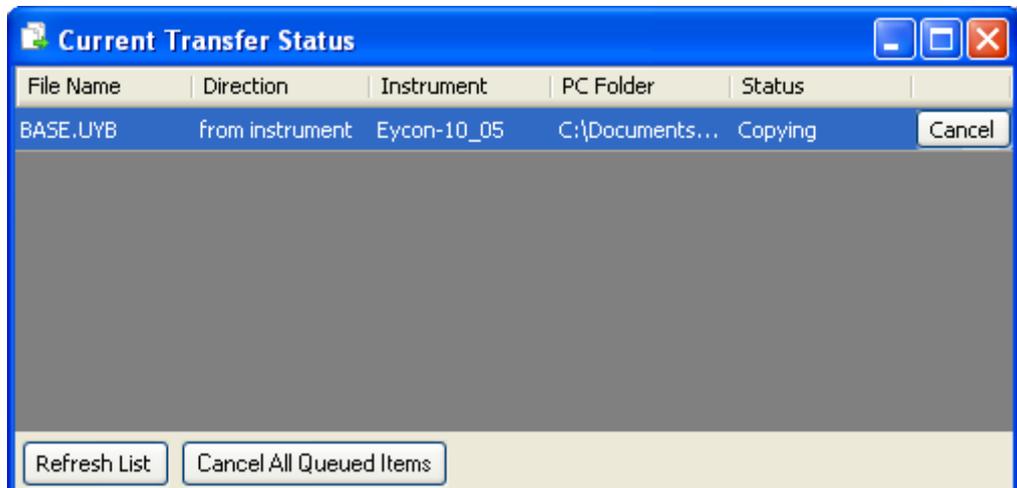


Copy file(s) from this PC to: .....

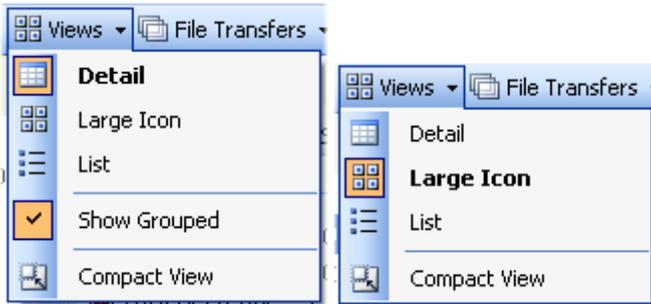
Opens a Browse window similar to that above, allowing the user to specify the source folder from which the file(s) are to be copied.

Current Transfer Status...

Shows the progress of the copy process.



### 3.3 Views Menu



Note: The Views menu is context sensitive and may not always contain all the items shown.

The following are some examples of the different viewing modes available in the Network Explorer.

#### 3.3.1 Detail

##### File view

With 'Show Grouped' enabled

Name	Size	Type	Date	Checksum
<b>Control Strategy</b>				
EYCON_05.DBF	13000	Eurotherm LIN Database	02/07/2008 13:39 UTC	13AF5375
FREEZED.UYW	1059	LIN Setpoint Program Template	02/07/2008 07:28 UTC	B25A6121
TOUCHSCR.DBF	5405	Eurotherm LIN Database	07/08/2008 15:43 UTC	857AFCA7
<b>User Screens</b>				
_DEFAULT.UYX	168	uyx	16/06/2008 17:31 UTC	8F1B5B8C
_DEFQVGA.OFL	28544	Eurotherm User Screen OIFL file	16/06/2008 17:30 UTC	2A9028BA

With 'Show Grouped' not enabled

Name	Size	File Type	Date	Checksum
_DEBUG.OPT	107	Instrument Options File	11/06/2009 09:04 UTC	4389FA74
_DEFAULT.UYX	168	uyx	20/11/2009 16:04 UTC	8F1B5B8C
_DEFQVGA.OFL	28544	Eurotherm User Screen OIFL file	20/11/2009 16:04 UTC	2A9028BA
_DEFXVGA.OFL	29343	Eurotherm User Screen OIFL file	20/11/2009 16:04 UTC	9889DE11
_PFC.UYK	802	uyk	03/12/2009 12:12 UTC	2F7909D1
_SYST10.UYL	43128	Panel Text Dictionary	20/11/2009 16:04 UTC	D0DFFB9B
_SYST10.UYQ	76416	uyq	20/11/2009 16:04 UTC	7D212BFD
_SYSTEM.OPT	2540	Instrument Options File	20/03/2009 15:54 UTC	A2BF0CBF
_SYSTEM.UID	677	uid	06/08/2009 11:01 UTC	21E78436
_SYSTEM.UYM	447	Eurotherm LIN TCP Properties	20/03/2009 15:54 UTC	8E70D9E5

### Instrument view

See also '[Options...](#)' in the Edit Menu for icon size selection.

Node Address	Node	Type	DB Name	DB Status	-	Configuration	Sync Status	Version
 Eycon-10...	05	Eycon-10	Eycon	Running	-	-	-	5/0
 T2550_0C	0C	T2550	T2550	Running	Primary	Synchronised	7/0	
 T2550_0D	0D	T2550	T2550	Running	Secondary	Synchronised	7/0	

### 3.3.2 Large Icon

#### File View

**Control Strategy**





EYCON\_05.... FREEZED.UYW TOUCHSC...

**User Screens**








\_DEFAULT.... \_DEFQVGA.... \_DEFXVGA.... \_SYSTEM1.... \_SYSTEM2.... \_SYSTE

#### Instrument View

**dimitri**

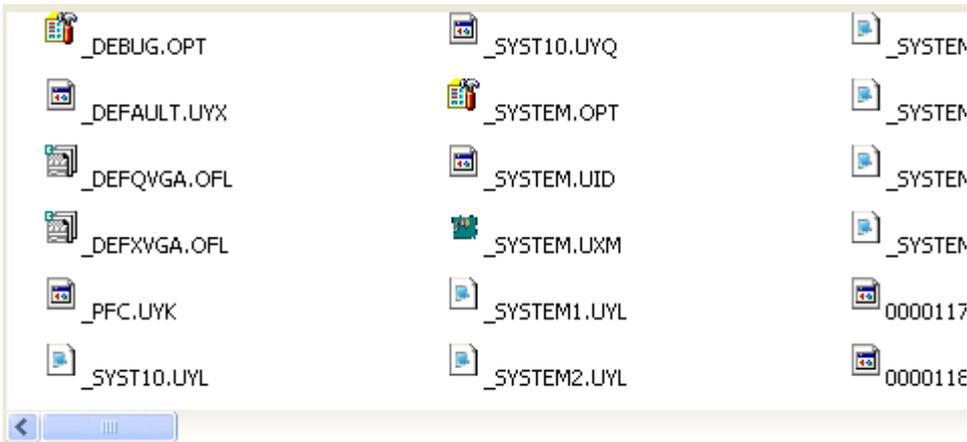




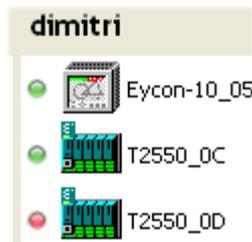
Eycon-10\_05 T2550\_0C T2550\_0D

### 3.3.3 List

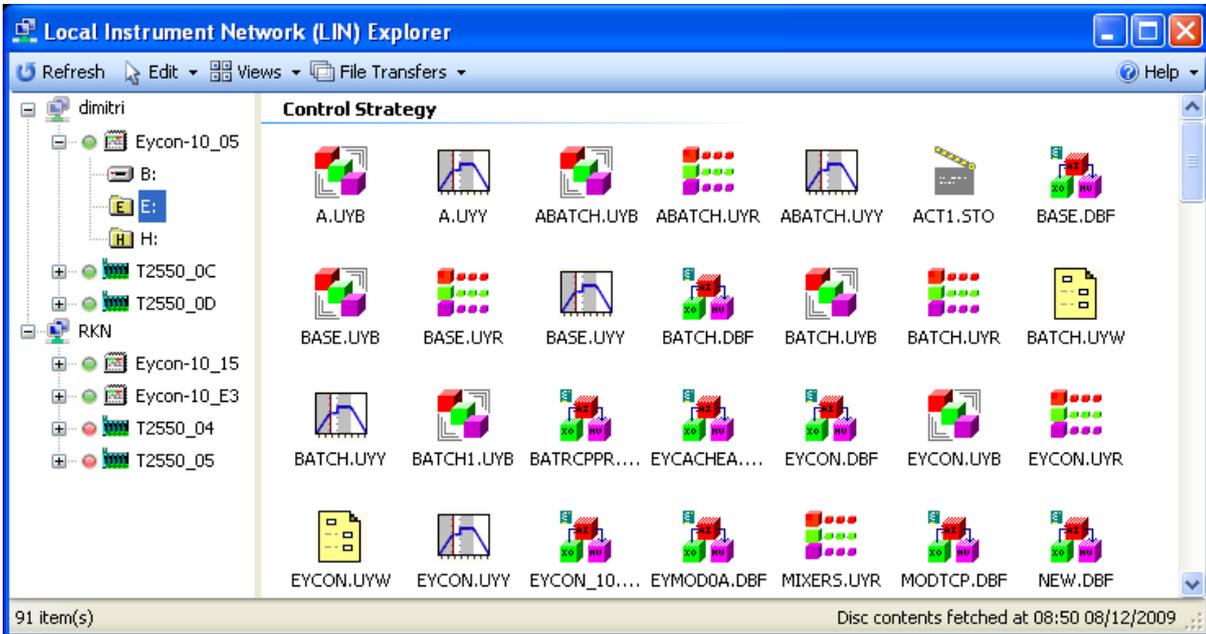
#### File View



#### Instrument view



### 3.3.4 Compact View



When enabled 'Compact view' causes tool buttons and the Properties Pane and Status Bar to be hidden from view, and the main pane to expand vertically to allow more of its content to be viewed. The function is a latching function i.e. it remains disabled (default) until enabled by the user, and *vice-versa*. The example above shows the Large Icon file view, but the Compact function applies equally to all view modes.

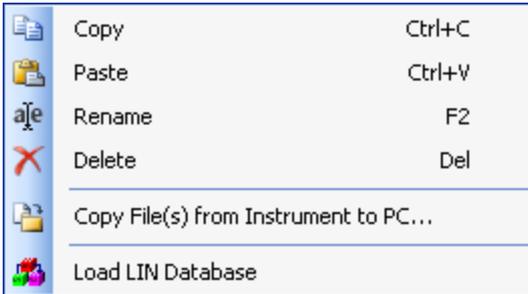
## 4 Context menus

### 4.1 File context menu

This context menu appears when the right mouse key is clicked within the File area. All items except 'Paste' and 'Load LIN database' become enabled when the right-click occurs on a specific file.

When a file has been copied from a pc folder to the pc clipboard, then all items except 'Paste' become disabled (greyed) when the right click occurs within the file area, but not on a specific file.

The figure below is a composite, showing all items enabled, for illustrative purposes only.



Copy	Copies the selected file to the pc clipboard. Shortcut: <Ctrl> + <C>. (See note below.)
Paste	Copies the contents of the clipboard (if compatible) into the instrument. Shortcut: <Ctrl> + <V>. See text above for details of when 'Paste' becomes enabled.
Rename	Allows the user to rename the instrument files. Shortcut: Function key <F2>. This facility should be used with prudence, and it is recommended that a backup of the drive be taken before files are renamed
Delete	Deletes the currently highlighted file(s). Sortcut: <Delete>. This facility should be used with prudence, and it is recommended that a backup of the drive be taken before files are deleted.
Copy File(s) from Instrument to PC...	Similar to 'Copy' (above) but allows the user to browse to a particular location to which the file will be copied, rather than to the clipboard. (See note below.)
Load LIN Database	Active only for database files, this causes the selected database (.dbf) file to be loaded into the current instrument and started.

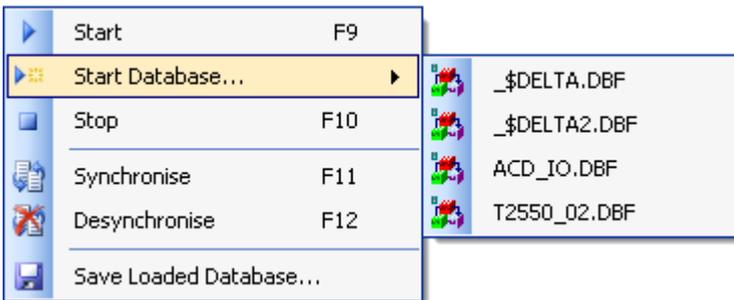
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Note: Copying files can take some time, and because the copy function is under the control of the pc operating system, clicking on the 'Cancel' key in the Network Explorer 'Current Transfer Status' window has no effect. Clicking on the 'Cancel All Queued Items' removes all files from the transfer list queue.

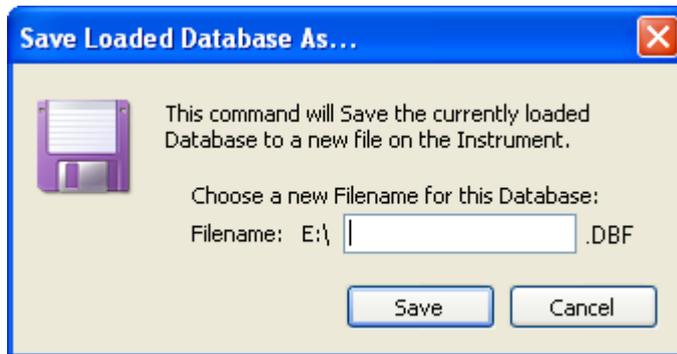
---

## 4.2 Instrument context menu

This menu appears when an instrument is right-clicked on in the Main pane. The illustration below is a composite showing all items enabled, for illustrative purposes.



- Start Starts the currently loaded database running on the relevant instrument. Shortcut: Function key <F9>
- Start database... Allows the user to select and start a different database by selecting one from the drop-down list that appears when the cursor hovers over 'Start Database...'
- Stop Stops the database running. If this command is given to the primary of a duplex (redundant) pair, then both instruments stop. It is not possible to stop the secondary on its own unless desynchronised. Shortcut: Function key <F10>
- Synchronise For duplex (redundant) pairs only, this synchronises the pair, so that they share data. Shortcut: Function key <F11>
- Desynchronise For duplex (redundant) pairs only, this desynchronises the pair, so that they no longer share data and can run separate databases etc. Shortcut: Function key <F12>
- Save Loaded Database... Allows the current database to be saved as a new file to the current drive.



### 4.3 Network context menu



This menu appears if the mouse is right-clicked whilst the cursor is hovering over a network name or icon in the Tree view.

Start All	Causes all the instruments in the network to start running their existing databases
Stop All	Causes all the instruments in the network to stop running their databases
Sync All	Causes all the relevant (duplex or redundant working) instruments in the network to attempt to synchronise
DeSync All	Causes all the relevant (duplex or redundant working) instruments in the network to desynchronise

## 5 Other items

### 5.1 Keyboard short cuts

There are a number of keyboard short cuts available to the user:

Notes:

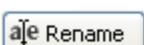
1. Shortcuts are not case sensitive.
2. <F1> (for example) represents Function key 1

Copy file to pc clipboard	<Ctrl> + <c>
Delete selected file from drive	<Delete> (or <Del>)
Desynchronise selected redundant pair	<F12> (or <ctrl> + <d>)
Edit drop down menu	<Alt> + <e>
Help	<F1>
Initiate synchronisation attempt on selected redundant pair primary	<F11> (or <ctrl> + <y>)
Paste file from pc clipboard to selected drive	<Ctrl> + <v>
Refresh network scan	<F5>
Rename File	<F2>
Select all items in file list	<Ctrl> + <a>
Start current database in selected instrument	<F9> (or <ctrl> + <t>)
Stop database running in selected instrument	<F10> (or <ctrl> + <o>*)
Views (dropdown menu)	<Alt> + <v>

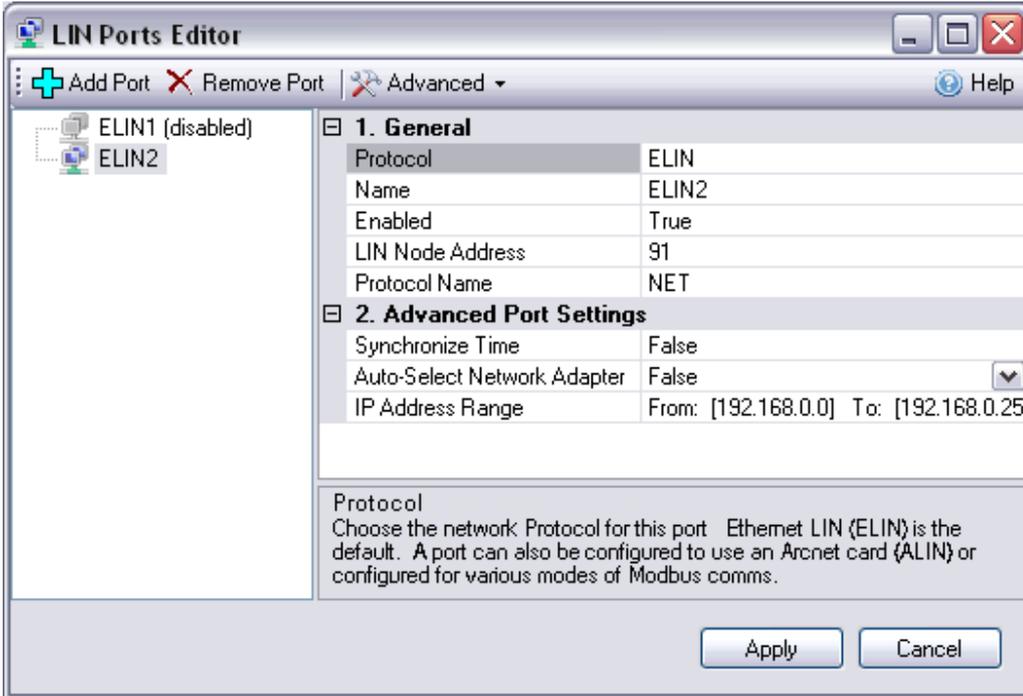
\* Letter 'o', not numeral zero

## 5.2 Tool buttons

The table below shows all the tool buttons that may appear above the main pane:

	Copies the selected file to the pc clipboard. Shortcut: <Ctrl> + <C>.
	Deletes the currently highlighted file(s). Sortcut: <Delete>. This facility should be used with prudence, and it is recommended that a backup of the drive be taken before files are deleted.
	Causes the relevant instrument pair to desynchronise. Shortcut: <F12>
	Active only for database files, this causes the selected database (.dbf) file to be loaded into the current instrument and started.
	Copies the contents of the clipboard (if compatible) into the instrument. Shortcut: <Ctrl> + <V>. 'Paste' becomes enabled only when a file has been copied from a pc folder to the pc clipboard.
	Allows the user to rename the instrument files. Shortcut: <F2>. This facility should be used with prudence, and it is recommended that a backup of the drive be taken before files are renamed.
	Starts the selected instrument's database running. Shortcut: <F9>.
	Stops the selected instrument's database running. Shortcut: <F10>.
	Causes the relevant instrument pair to attempt to synchronise. Shortcut: <F11>.

### 5.3 Port Configuration



This [Edit menu](#) item allows the user to add new ports, or to edit or delete the highlighted port configuration. Refer to the ELIN Comms user guide HA082429 for port configuration details, or the online help within the LIN Ports Editor control panel applet.

## 5.4 Time zones

Some common time zone suffixes which may appear are as follows:

Abbreviation	Full title	Time at noon GMT	Difference (hours)
UTC	Co-ordinated Universal Time	12:00	0.0
ACT	Australia Central Time	21:30	+9.5
AET	Australia Eastern Time	22:00	+10.0
AGT	Argentina standard time	09:00	-3.0
ART	Arabic standard time	15:00	+3.0
AST	Alaska Standard Time	03:00	-9.0
BET	Brazil Eastern Time	09:00	-3.0
BST	Bangladesh Standard Time	18:00	+6.00
CAT	Central African Time	11:00	-1.00
CNT	Canada Newfoundland Time	08:30	-3.5
CST	Central Standard Time	06:00	-6.0
CTT	China Taiwan Time	20:00	+8.0
EAT	Eastern African Time	15:00	+3.0
ECT	Central European time	13:00	+1.0
EET	Eastern European Time	14:00	+2.0
EST	Eastern Standard Time	07:00	-5.0
HST	Hawaii Standard Time	02:00	-10.0
IET	Indiana Eastern standard Time	07:00	-5.0
IST	India Standard Time	17:30	+5.5
JST	Japan Standard Time	21:00	+9.0
MET	Middle East Time	15:30	+3.5
MIT	Midway Islands Time	01:00	-11.0
MST	Mountain Standard Time	05:00	-7.0
NET	Near East Time	16:00	+4.0
NST	New Zealand Standard Time	24:00	+12
PLT	Pakistan Lahore Time	17:00	+5.0
PNT	Phoenix Standard Time	05:00	-7.0
PRT	Puerto Rico and US Virgin Islands Time	08:00	-4.0
PST	Pacific Standard Time	04:00	-8.0
SST	Solomon Standard Time	23:00	+11.0
VST	Vietnam Standard Time	19:00	+7.0

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