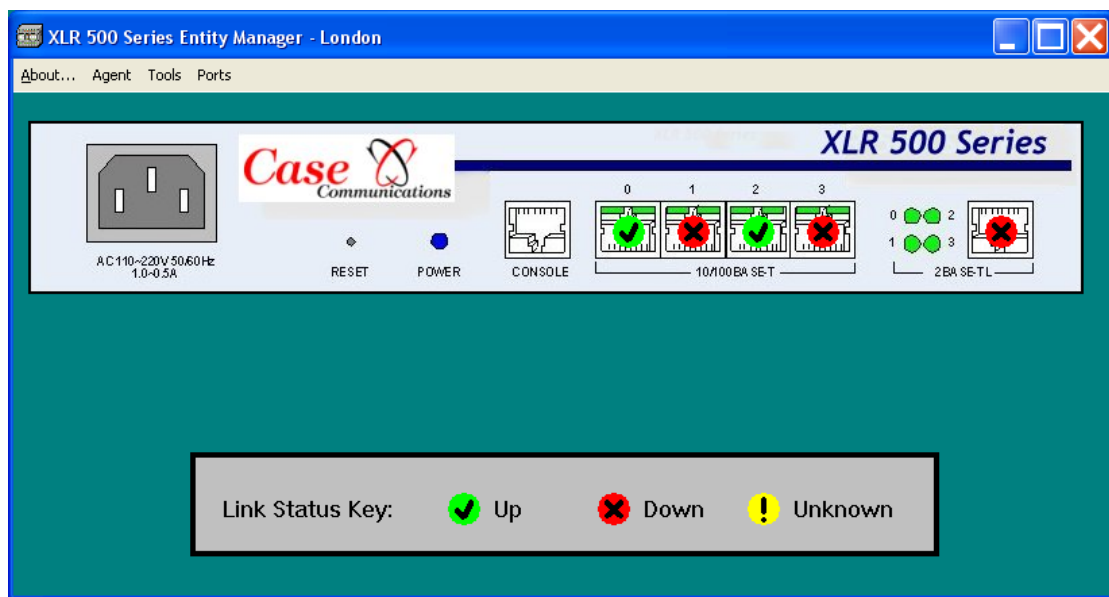


CASEVIEW NETWORK MONITORING AND MANAGEMENT

KEEPING A CLOSE EYE ON YOUR NETWORK



Case XLR 500 Series Entity Manager Module

Network Monitoring and Management

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Introduction

The *CaseView* core system provides generic support for devices which present an SNMP interface. However, in order to *extend* the support for network devices, *CaseView* provides additional *Entity Manager Modules (EMMs)* which are specific to particular devices and which extend the monitoring and management control of the devices.

This document describes the Case Communications XLR 500 Series EMM. It should be read in conjunction with the XLR 500 Series documentation.

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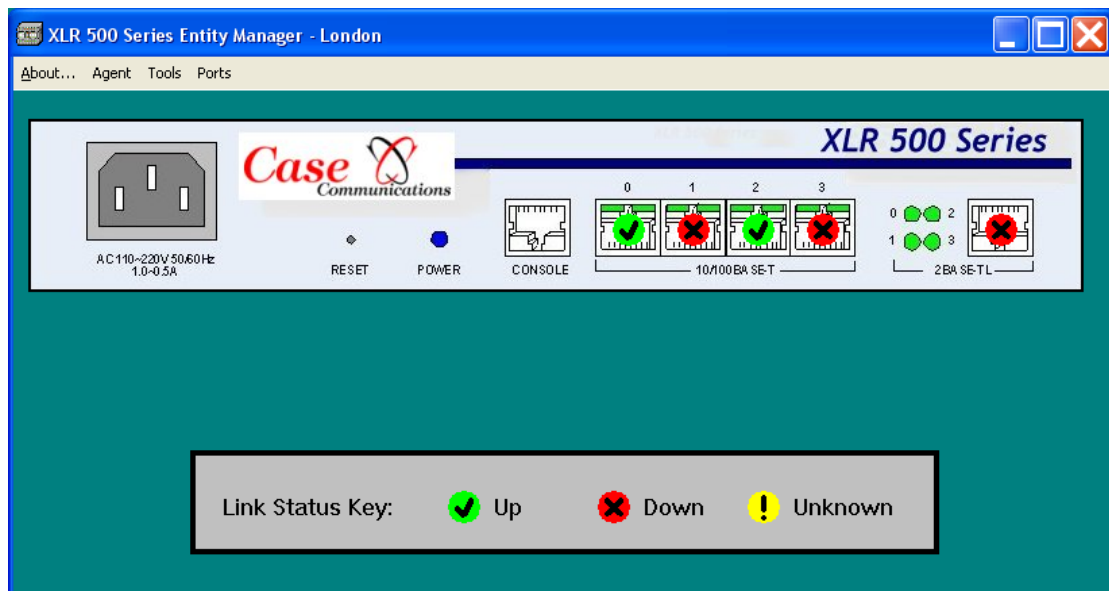
Launching the EMM

Launching the EMM is extremely straightforward. All you have to do is double click on the icon on the map which represents the XLR you wish to manage.

EMM appearance

The EMM presents a window which shows a representation of the device. It also draws onto these views the current state of the SNMP-monitorable interfaces (e.g. links, protocols) that the XLR presents to the rest of the network. This information is continually refreshed at a constant interval – typically every ten seconds.

The screenshot below shows the appearance of the XLR 500 Series EMM screen. In this screenshot it can be seen that two of the LAN links are up.



EMM Menus

About Menu

The **About** menu provides information about the EMM version in use and about the information reported by the particular XLR in question.

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Agent Menu

The **Agent** menu allows you to inspect, chart and graph the MIB-II SNMP variables that the XLR supports (an introduction to MIB-II is provided elsewhere in the documentation pack). The XLR provides access to the following tables (the numbers in brackets are the MIB Object IDs of the tables):

- System Table (1.3.6.1.2.1.1).
- Internet Protocol Address Table (1.3.6.1.2.1.4.20).
- Internet Protocol Routing Table (1.3.6.1.2.1.4.21).
- Internet Protocol ARP Table (1.3.6.1.2.1.4.22).
- ICMP Table (1.3.6.1.2.1.5).
- SNMP Table (1.3.6.1.2.1.11).

The example below shows the System Table.

Descr	Case Communications,	
ObjectID	XLR.552800	
UpTime	0 days 02:53:02.00	
Contact	sales@casecomms.com	
Name	XLR552A	
Location		
Services	78	

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Note that the Interface Table (1.3.6.1.2.1.2) is not available on this menu but it is available in great detail from the **Ports** and **Port** menus.

Tools Menu

The **Tools** menu allows you to perform miscellaneous operations on the device:

- Make a telnet connection to the XLR manager.
- Connect to the XLR manager web browser.
- Show the current settings for many items:
 - Config0 as a whole.
 - Config1 as a whole.
 - Doubletag-id.
 - EFMOAM.
 - Filter.
 - Image.
 - Interface.
 - Log.
 - Log dump.
 - PME.
 - Port.
 - QOS.
 - SNMP.
 - Statistics (Port and PME).
 - System.
 - Trunk.
 - Users.
 - VLAN.
 - VLAN mode.
- Clear config0 or config1.
- Copy config0 to config1 (or vice versa).
- Dump configuration data from either config0 or config1 to the *CaseView* PC. This option requires that the PC is running a TFTP Server. See the *CaseView Introduction* document for more information. The configuration will be stored in a file whose name is created as follows:
 <device name>_config<0|1>.cfg.
So, for example, the file that will contain config1 from an XLR named **London** will be London_config1.cfg.
- Load previously dumped configuration data to either config0 or config1 from the *CaseView* PC. This option requires that the PC is running a TFTP Server. See the *CaseView Introduction* document for more information. The configuration will be read from a file whose name is created in the same way as described above.
- Write the current configuration into either config0 or config1.
- Restart the XLR.
- Store and clear (in the local *CaseView* database) the **Logon** and **Enable** passwords for the XLR manager. If you choose to store a password in the database, you will not be prompted for them each time you want to access the XLR manager – the stored password will be used to try the logon. However, if you choose **not** to store

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a password in the database, you will be prompted for it each time you want to access the XLR manager. **Note that these operations simply affect the password stored in the database – they do not affect the real password stored in the XLR itself.**

These operations make use of native XLR commands and so more detail on them can be found in the XLR 500 Series documentation.

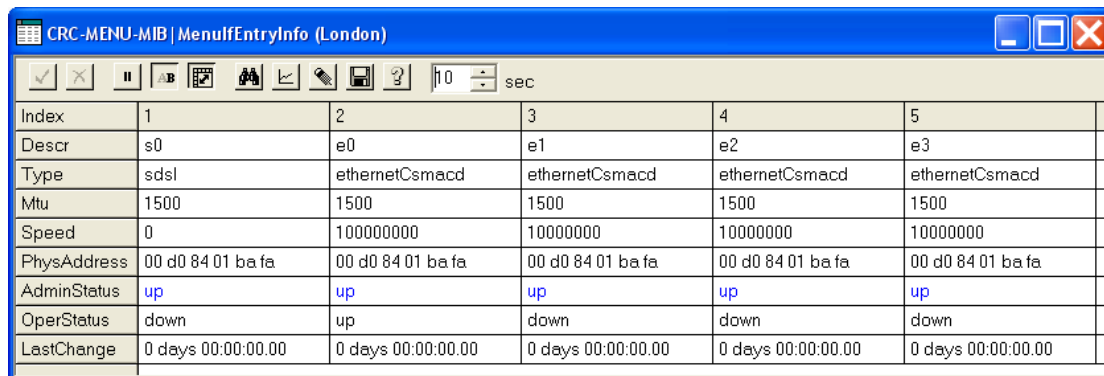
Ports Menu

The **Ports** menu allows you to inspect, chart and graph SNMP variables from the Interface Table (1.3.6.1.2.1.2). It displays the interface entry for all the SNMP-monitorable interfaces on the device (as displayed on the graphic device display).

The options on the menu allow you to use different views into the table:

- Full View. This displays every variable in the entry.
- Info View. This displays a selection of the more important variables.
- Usage (BPS) View. This displays the port usage variables.
- Utilisation (%) View. This displays the port utilisation variables.

The example below shows the Info View.



The screenshot shows a window titled "CRC-MENU-MIB | MenuEntryInfo (London)" with a toolbar and a table of interface data. The table has 6 columns (Index 1-5) and 10 rows of variables.

Index	1	2	3	4	5
Descr	s0	e0	e1	e2	e3
Type	sdsl	ethernetCsmacd	ethernetCsmacd	ethernetCsmacd	ethernetCsmacd
Mtu	1500	1500	1500	1500	1500
Speed	0	100000000	100000000	100000000	100000000
PhysAddress	00 d0 84 01 ba fa	00 d0 84 01 ba fa	00 d0 84 01 ba fa	00 d0 84 01 ba fa	00 d0 84 01 ba fa
AdminStatus	up	up	up	up	up
OperStatus	down	up	down	down	down
LastChange	0 days 00:00:00.00	0 days 00:00:00.00	0 days 00:00:00.00	0 days 00:00:00.00	0 days 00:00:00.00

Port Menu

The **Port** menu is available when a particular port has been selected. You select a port by right or left clicking on its icon on the graphical display. This is the icon that is reporting its current status (Up/Down/Unknown).

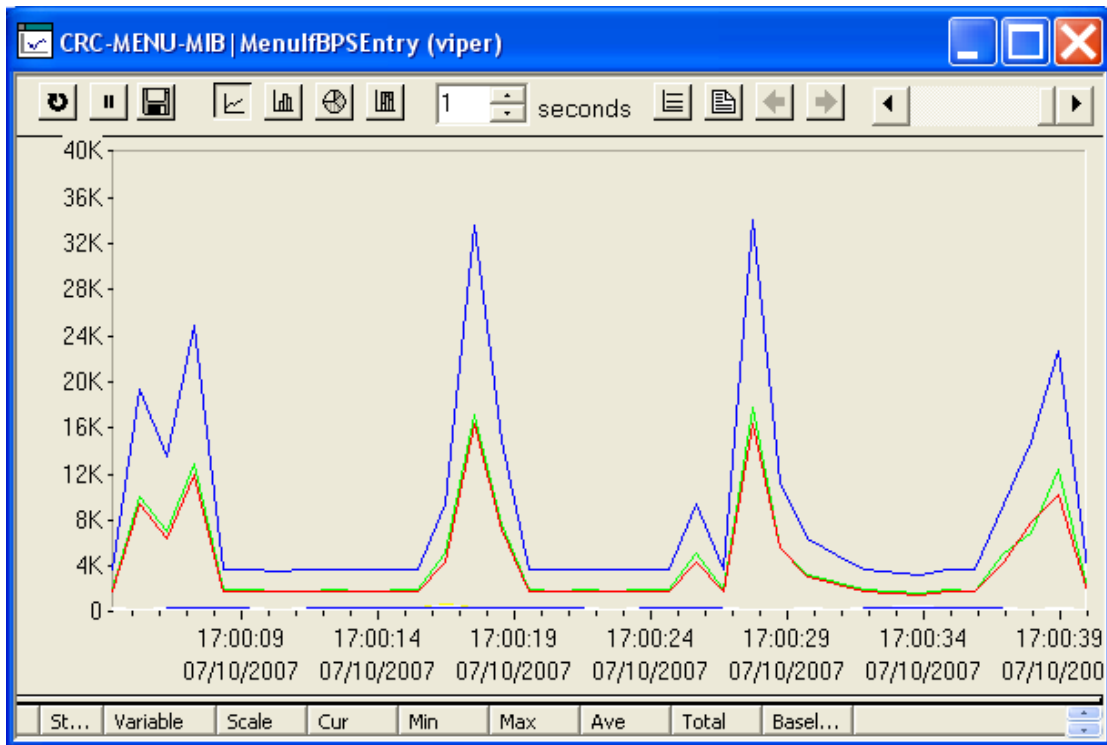
It provides access to the same variables as described in the **Ports** menu, the only difference being that it is the data for the selected port (rather than all ports).

Viewing/Changing Data

Some of the EMM menus allow you to inspect, chart and graph SNMP variables. Exactly how to perform these very powerful operations is described in the **Getting Started** documentation.

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The example below shows a graph of Port Utilisation data.



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Support

In order to procure the most efficient and effective support for your query, please email a clear description of your query to the following address:

caseview@casecomms.com