

L7700 IP16 Intelligent Power Supply

Guardian



GUARDIAN

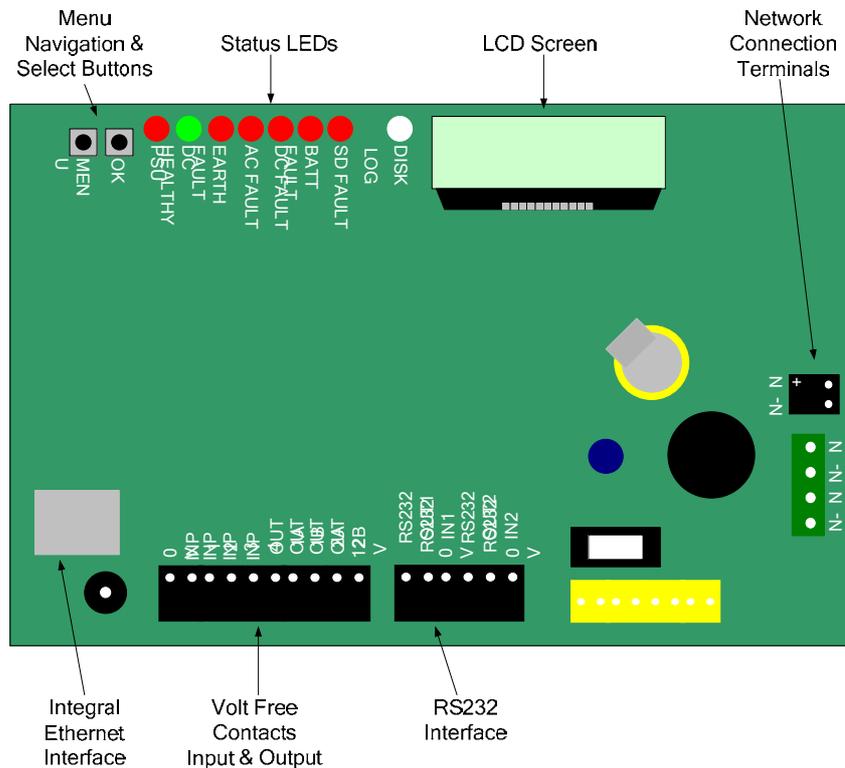
STAFF SAFETY SYSTEMS

L7700 IP16 Intelligent Power Supply

The Guardian **L7700 IP16** Intelligent Power Supply replaces the L7717 High Power PSU and features an integrated Ethernet controller allowing system configuration, Datalog access and remote monitoring via a standard Ethernet connection. All system settings previously controlled by DIP switches and the LIMProg programming software may now be carried out using a standard web browser, without the need for custom configuration software. Security is maintained as web access to the setup and configuration screens are password protected. In addition, the unit features; on board calendar & clock and Secure Data flash disk drive which automatically records all system configuration and activity with the date and time. Day and Night alarm settings may be automatically switched by the on-board clock without the need for a manual switch. There are four programmable volt free contact inputs and two volt free contact outputs together with an RS232 output which can be configured for printers, pagers or any other RS232 device.

The unit supports a VOIP expansion card which allows the audio voice channel conversations to be recorded and/or integrated with other IP devices. The integral float charger supports a single 12v 12Ah battery and the AC, DC, Battery and Earth continuity are continuously monitored.

The unit should be located in a central accessible position to allow maintenance access and should be connected to the mains AC supply via a non-switched fused spur outlet with a 5A fuse fitted.



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Main Supply Input : 90v – 240v AC (Remove protective cover to gain access to mains input terminals)

Required Battery : 12 volt 12 AmpHour Sealed Lead Acid (**Observe Polarity**)

Output Terminals : Two parallel terminals provided for convenience – connect to Network devices

RS232 Terminals:

TXD : RS232 Level data output for printers, pagers etc.

RXD : RS232 Level data input

CTS & RTS : RS232 Level Outgoing & Incoming flow control for RS232

Input Terminals:

Input 1 : Programmable Input No. 1 active when connected to 0v

Input 2 : Programmable Input No. 2 active when connected to 0v

Input 3 : Programmable Input No. 3 active when connected to 0v

Input 4 : Programmable Input No. 4 active when connected to 0v

Output Terminals:

Output 1A & 1B : Programmable Volt Free Normally Open Output No. 1 (Max 24v DC)

Output 2A & 2B : Programmable Volt Free Normally Open Output No. 2 (Max 24v DC)

Status LEDs:

PSU : Flashing – indicated internal microprocessor is running

DC Healthy : Lights to indicate the incoming DC supply is within tolerance

Earth Fault : Indicates an electrical short between the network & main supply protective earth

DC Fault : Indicates incoming DC supply is operating outside of limits

AC Fault : Indicates a failure of the incoming AC supply

SD Fault : Indicates the on-board Secure Data Disk has malfunctioned

DISK : Indicates read/write activity to the on-board SD Disk

On-board Fuse : 5Amp 20mm fuse protection for Battery. Charger is current limited

Installation : Self Contained Surface Mounted Case

Size & Weight : 370mm x 260mm x 110mm – 4.5kg

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Guardian IP Embedded Web Server pages

The Guardian IP16 Power Supply Controller contains an embedded web server for system configuration and status monitoring. It is used to gain access to the on-board data-logger recording all system activity with the time and date, and to allow password protected access to the system configuration and networking pages.

The screenshot displays the Guardian IP Embedded Web Server interface. At the top, there is a navigation bar with 'Home' and 'Logout' links. Below this is a main header area with the 'Guardian IP' logo. A secondary navigation bar contains tabs for 'Status', 'Activity Monitor', 'Datalog', 'Search', and 'Setup'. The main content area is divided into several sections:

- System Status:** Displays firmware version (1.0.0.5) and date (Jun 1 2009 15:11:11), and serial number (R1001A7A0001D0).
- Activity:** A table showing active network devices.
- Health:** A table showing the status of various power supply components.
- Media:** Shows storage capacity and free space percentage.
- Additional Info:** Provides details on serial number, activity, media, and health.
- Other Pages:** Links to Activity Monitor, Datalog, and Setup pages.

At the bottom of the interface, there is a footer with 'Home | Datalog | Logout' links.

Address	State	User
170: Address 170	Assistance	000: -

Component	Status	Value
AC Line	Not Detected	
DC Line	13.71 Volts	
Battery Charge	Not Detected	
Temp 1	28.47 c	
Temp 2	27.50 c	
Earth Fault	Clear	

Capacity	Free
5073979712 Bytes in 988288 Sectors (15855616 Log Entries)	99.9% (988275 / 988288)

As you can see, the main index screen shows the status of the power supply controller together with any network device which is active. The HTML pages also contain help text to assist unfamiliar users to navigate the user screens.

Guardian

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Guardian IP Embedded Activity Monitor

All network activity is recorded internally within the L7700 IP16 Controller PSU and may be accessed via the web server. The system automatically records a health check every hour together with the status of the power rails, internal temperature etc.

The screenshot displays the Guardian IP Embedded Activity Monitor web interface. The page features a blue header with the 'Guardian IP' logo and 'Home Logout' links. Below the header is a navigation bar with tabs for 'Status', 'Activity Monitor', 'Datalog', 'Search', and 'Setup'. The 'Activity Monitor' tab is selected, showing a table of activity logs. The table has four columns: 'Time', 'Address', 'Event', and 'User'. The logs show various events such as 'Call', 'Reset', and 'DSAB WC 2' occurring between 10:16:46 and 10:17:37 on 2009-06-04. The footer of the page contains 'Home | Datalog | Logout' links.

Time	Address	Event	User
2009-06-04 10:17:37	012: ADDRESS 012	Call	001: -
2009-06-04 10:17:37	011: ADDRESS 011	Reset	001: -
2009-06-04 10:17:30	011: ADDRESS 011	Call	001: -
2009-06-04 10:17:30	010: ADDRESS 010	Reset	001: -
2009-06-04 10:17:22	010: ADDRESS 010	Call	001: -
2009-06-04 10:17:22	009 ADDRESS 009	Reset	001: -
2009-06-04 10:17:15	009: ADDRESS 009	Call	001: -
2009-06-04 10:17:15	008: RECEPTION	Reset	001: -
2009-06-04 10:17:08	008: RECEPTION	Call	001: -
2009-06-04 10:17:08	007: DSAB WC 2	Reset	001: -
2009-06-04 10:17:01	007: DSAB WC 2	Call	001: -
2009-06-04 10:17:01	006: BEDROOM 12	Reset	001: -
2009-06-04 10:16:53	006: BEDROOM 12	Call	001: -
2009-06-04 10:16:53	005: GREEN ROOM	Reset	001: -
2009-06-04 10:16:46	005: GREEN ROOM	Call	001: -
2009-06-04 10:16:46	004: QUIET ROOM	Reset	001: -

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Guardian IP Embedded Datalog and Search Facility

The embedded search facility allows a filter to be applied to this data log for retrieval purposes. Data can be filtered by date, time, location and event type. The data may be shown on-screen or downloaded and imported directly into Microsoft Excel.

Guardian IP

Home Logout

Status Activity Monitor **Datalog** Search Setup

Datalog

Time	Address	Event	User
2009-06-04 11:52:22	021: ADDRESS 021	Reset	001: -
2009-06-04 11:49:37	020: ADDRESS 020	Reset	001: -
2009-06-04 11:48:01	019: ADDRESS 019	Reset	001: -
2009-06-04 11:45:30	018: ADDRESS 018	Reset	001: -
2009-06-04 11:03:22	017: ADDRESS 017	Reset	001: -
2009-06-04 10:19:36	016: ADDRESS 016	Reset	001: -
2009-06-04 10:18:22	015: ADDRESS 015	Reset	001: -
2009-06-04 10:18:15	014: ADDRESS 014	Reset	001: -
2009-06-04 10:18:08	013: ADDRESS 013	Reset	001: -
2009-06-04 10:17:59	012: ADDRESS 012	Reset	001: -
2009-06-04 10:17:48	011: ADDRESS 011	Reset	001: -
2009-06-04 10:17:35	010: ADDRESS 010	Reset	001: -
2009-06-04 10:17:22	009: ADDRESS 009	Reset	001: -
2009-06-04 10:16:58	008: RECEPTION	Reset	001: -
2009-06-04 10:16:53	007: DSAB WC 2	Reset	001: -
2009-06-04 10:16:46	006: BEDROOM 12	Reset	001: -

Page 10 : [Jump](#) | <<<< | >>>>

Home | Datalog | Logout

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Guardian IP Datalog Search Facility - Example

Status Activity Monitor Datalog **Search** Setup

Guardian IP – Datalog Search

Download Result to File:

From: 03 06 2009 To: 04 06 2009
Time: 01 00
Address: BEDROOM 1

All Events

System Calls Visits Accepts Priorities
Emergencies Attacks Assistance Tampers Faults
Isolate Resets Intercom

Use your Browsers 'Stop' button to cancel and partially show your results

Time	Address	Event	User
2009-06-04 11:52:22	001: BEDROOM 1	Reset	000: -
2009-06-04 11:49:37	001: BEDROOM 1	Call	001: -
2009-06-04 11:48:01	001: BEDROOM 1	No Device	000: -
2009-06-04 11:45:30	001: BEDROOM 1	Reset	000: -
2009-06-04 11:03:22	001: BEDROOM 1	Call	006: -
2009-06-04 10:19:36	001: BEDROOM 1	Reset	000: -
2009-06-04 10:18:22	001: BEDROOM 1	Call	001: -
2009-06-04 10:18:15	001: BEDROOM 1	Reset	000: -
2009-06-04 10:18:08	001: BEDROOM 1	Call	012: -
2009-06-04 10:17:59	001: BEDROOM 1	No Device	000: -
2009-06-04 10:17:48	001: BEDROOM 1	Reset	000: -
2009-06-04 10:17:35	001: BEDROOM 1	Call	001: -
2009-06-04 10:17:22	001: BEDROOM 1	Reset	000: -
2009-06-04 10:16:58	001: BEDROOM 1	Call	023: -

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Guardian IP Set Up Page

The setup tab gives access to the engineering configuration screens and is password protected to prevent unauthorised access



Authentication Required ✕

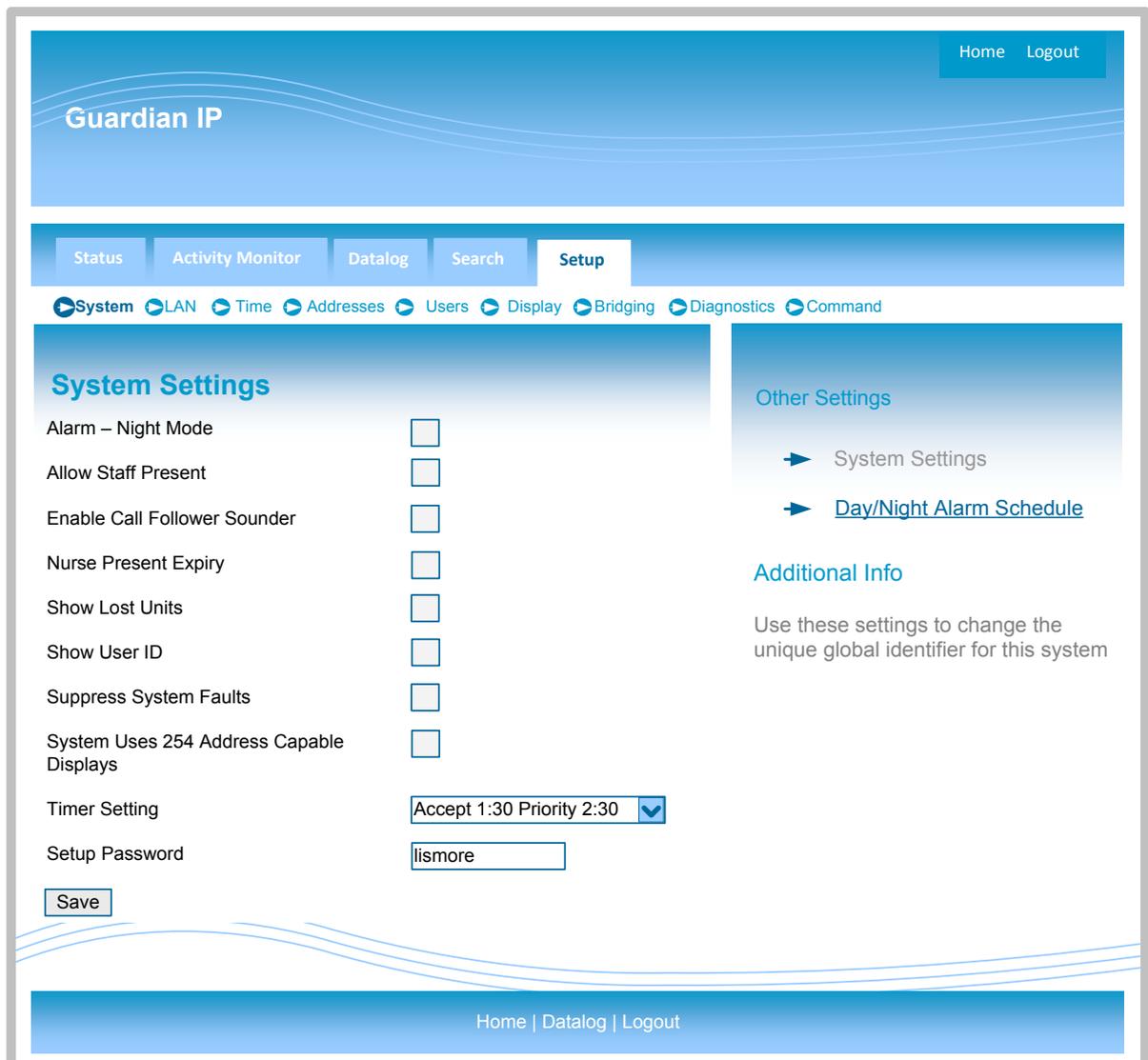
ⓘ A user name and password are being requested by http://192.168.0.192. The site says: "Protected"

User Name

Password

Guardian IP System Configuration Screen

The first screen is the system configuration screen which allows global system settings to be configured. These were previously configured using DIP switches on the L7717 and L717 power supply units. The Day/Night Alarm scheduling is also accessed from this screen and the setup access password can be changed.



Guardian IP Home Logout

Status Activity Monitor Datalog Search **Setup**

▶ System ▶ LAN ▶ Time ▶ Addresses ▶ Users ▶ Display ▶ Bridging ▶ Diagnostics ▶ Command

System Settings

Alarm – Night Mode	<input type="checkbox"/>
Allow Staff Present	<input type="checkbox"/>
Enable Call Follower Sounder	<input type="checkbox"/>
Nurse Present Expiry	<input type="checkbox"/>
Show Lost Units	<input type="checkbox"/>
Show User ID	<input type="checkbox"/>
Suppress System Faults	<input type="checkbox"/>
System Uses 254 Address Capable Displays	<input type="checkbox"/>
Timer Setting	Accept 1:30 Priority 2:30 ▼
Setup Password	<input type="text" value="lismore"/>

Other Settings

- ▶ System Settings
- ▶ [Day/Night Alarm Schedule](#)

Additional Info

Use these settings to change the unique global identifier for this system

Home | Datalog | Logout

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Automatic Day/Night Scheduling

From the system screen there is a link to the Day/Night scheduling screen which can be setup to automatically change the system between the Day and Night modes. Enter the Day Mode Start Time and the Night Mode Start Time, in 24 hour clock format, and select the Enable Auto Change dialogue. The Day/night mode will now automatically change as the on board clock passes the time entered in this screen.

The screenshot displays the Guardian IP web interface. At the top, there is a header with "Guardian IP" and "Home Logout" links. Below the header is a navigation menu with tabs for "Status", "Activity Monitor", "Datalog", "Search", and "Setup". Under the "Setup" tab, there is a sub-menu with options: "System", "LAN", "Time", "Addresses", "Users", "Display", "Bridging", "Diagnostics", and "Command". The main content area is titled "Day/Night Scheduling" and shows the "Current Mode: Day Mode". There are three main settings: "Enable Auto Change" with an unchecked checkbox, "Day Mode Start Time" with two input fields showing "0" and "0", and "Night Mode Start Time" with two input fields showing "0" and "0". A "Save" button is located at the bottom left of the form. On the right side, there is a sidebar with "Other Settings" including "System Settings" and "Day/Night Alarm Schedule", and "Additional Info" with a note: "Use these settings to change the unique global identifier for this system". The footer of the interface contains "Home | Datalog | Logout" links.

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LAN - Local Area Network Screen

The LAN settings screen controls the essential LAN settings for the IP controller. One a simple one to one crossover cable where a DHCP server is not present (i.e. a simple direct connection between computer and L7700 IP16 Controller) the default IP address will be used (192.168.0.192). On a network where a DHCP server is operating, the L7700 IP16 Controller will automatically be assigned an IP address and this will be shown on the LCD display screen. Alternatively, InterSniff discovery software may be used to locate any IP controller on the LAN.

The screenshot shows the Guardian IP web interface. At the top right, there are links for 'Home' and 'Logout'. The main header area contains the 'Guardian IP' logo. Below this is a navigation bar with tabs for 'Status', 'Activity Monitor', 'Datalog', 'Search', and 'Setup'. Underneath the navigation bar is a secondary menu with icons for 'System', 'LAN', 'Time', 'Addresses', 'Users', 'Display', 'Bridging', 'Diagnostics', and 'Command'. The main content area is titled 'LAN Settings' and contains several form fields: 'Enable DHCP' (checkbox), 'IP Address' (text box with '10.0.0.115'), 'Subnet Mask' (text box with '255.255.255.0'), 'Gateway Address' (text box with '10.0.0.1'), 'Primary DNS' (text box with '10.0.0.2'), 'Secondary DNS' (text box with '212.241.180.122'), and 'Netbios Name' (text box with 'MAC_0_0_121'). A 'Save' button is located at the bottom of the form. To the right of the form is an 'Additional Info' section with a 'WARNING' icon. The warning text states: 'Incorrect settings entered here can cause the system to become uncontactable to your PC.' Below the warning, there are three paragraphs of text: 'Enable DHCP: Automatic allocation of IP settings when DHCP server is available on the LAN.', 'IP Address, Subnet Mask and DNS: Manual IP settings used when no DHCP server is available on the LAN.', and 'Netbios Name: Unique name for unit discovery on the LAN.' Below this is a 'Warning' section with red text: 'Only enable DHCP when there is a DHCP server available on the LAN (Local Area Network)' and 'Do not Enable DHCP when you are using a cross over cable directly into a laptop or PC.' Below that is another red text warning: 'Do not Enable DHCP when you are using a stand-alone network without DHCP Server.' At the bottom of the 'Additional Info' section is a 'Warning' section with blue text: 'Intersniff and CMSN' followed by the text: 'Intersniff and CMSN will not operate if you have DHCP Enabled and there is no DHCP server available on the network. However, this HTML web server will operate normally.' At the bottom of the page, there are links for 'Home | Datalog | Logout'.

Time - System Clock

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As previously described the L7700 IP16 System Controller contains an on-board Real Time Clock, which can be synchronised by one of the following methods:

- NTP Server (Network Time Protocol) over the LAN
- GPS Clock connected to the RS232 input
- Manually using the Embedded web server on this page.

Please note that if a GPS clock is detected, this will override the manual settings and the NTP updates.

System Clock

Current Time:
2009-06-04 10:22:40

GPS Receiver Information

Status:
Signal:
Time:

NTP Information

Last NTP Time:
NEVER

Network Time Protocol (NTP):

Allow NTP

NTP Server

NTP Query Interval Minutes

Master/Slave Syncing

Sync Mode

GPS Receiver Settings

Baud

Enter New Time:

Year	Month	Day	Hour	Mins	Secs
<input type="text" value="2009"/>	<input type="text" value="06"/>	<input type="text" value="04"/>	<input type="text" value="10"/>	<input type="text" value="22"/>	<input type="text" value="27"/>

Entry must be in 24hr mode

Additional Info

System Clock: All datalog events are time stamped using the internal clock which is automatically updated by either a GPS receiver or NTP server.

GPS Receiver: Directly connected to the RS232 port, information uses the NMEA protocol and standard baud rates are 4800 and 9600.

NTP: Connected via the LAN, NTP servers can be local or off-site if external access is available on the LAN.

Time Setting: The internal clock can be manually altered in 24 hour clock mode (ie 1pm = 13:00).

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Addresses - Address Descriptions

The Address and User Descriptions may be manually entered into the web pages shown below or alternatively may be uploaded from an Excel spreadsheet. Please note the Excel Import/Export must be formatted in the correct manner and we recommend editing a previously exported spreadsheet rather than creating a new one, to ensure that the correct is used. The Screen below shows eight address descriptions at one time and the pages can be navigated using the Forward (>>>>) and Back (<<<<) arrows or entering a specific address and selecting the JUMP button.

The screenshot shows the Guardian IP web interface. At the top right, there are 'Home' and 'Logout' links. The main header displays 'Guardian IP'. Below this is a navigation bar with tabs for 'Status', 'Activity Monitor', 'Datalog', 'Search', and 'Setup'. Underneath the navigation bar is a menu of icons for 'System', 'LAN', 'Time', 'Addresses', 'Users', 'Display', 'Bridging', 'Diagnostics', and 'Command'. The main content area is titled 'Address Descriptions' and features a 'Show Address:' field with the value '1', a 'Jump' button, and navigation arrows '<<<<' and '>>>>'. Below this is a table with two columns: 'ID' and 'Text'. The table contains eight rows of address descriptions. At the bottom of the table is a 'Save' button. Below the table is an 'Address Commands' section with 'Export Addresses' and 'Import Addresses' buttons, and a 'Browse...' button next to the 'Import Addresses' button. A warning message states: 'Warning: Data Imports *MUST* be in the correct file format'. At the bottom of the page, there are 'Home | Datalog | Logout' links.

ID	Text
001	BEDROOM 1
002	BATHROOM
003	TV LOUNGE
004	QUIET ROOM
005	GREEN ROOM
006	BEDROOM 12
007	DSAB WC 2
008	RECEPTION

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Users - User Descriptions

The User Descriptions (User ID's) may be manually entered into the web pages shown below or alternatively may be uploaded from an Excel spreadsheet. Please note the Excel Import/Export must be formatted in the correct manner and we recommend editing a previously exported spreadsheet rather than creating a new one, to ensure that the correct is used. The Screen below shows eight address descriptions at one time and the pages can be navigated using the Forward (>>>>) and Back (<<<<) arrows or entering a specific address and selecting the JUMP button.

Guardian IP

Home Logout

Status Activity Monitor Datalog Search Setup

System LAN Time Addresses Users Display Bridging Diagnostics Command

User Details

Show User: 1 Jump | <<<< | >>>>

ID	Text
001	<input type="text" value="USER 001"/>
002	<input type="text" value="USER 002"/>
003	<input type="text" value="USER 003"/>
004	<input type="text" value="USER 004"/>
005	<input type="text" value="USER 005"/>
006	<input type="text" value="USER 006"/>
007	<input type="text" value="USER 007"/>
008	<input type="text" value="USER 008"/>

Save

User Commands

Export Users

Import Users Browse...

Warning: Data Imports *MUST* be in the correct file format

Home | Datalog | Logout

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Display – Display Text Descriptions

The display text descriptions are the four text strings reserved for the *System Text* descriptions which are linked to the X1, X2, X3, & X4 external inputs on certain addressable call point devices. During an active call, these descriptions will be shown on the lower line of the LCD display unit when a call is activated using one of these terminals. In addition, the *Display Text* lines 1 and 2 may be edited to show a site specific message on the displays when they are quiescent.

The screenshot shows the Guardian IP web interface. At the top, there is a header with 'Guardian IP' and 'Home Logout' links. Below the header is a navigation bar with tabs for 'Status', 'Activity Monitor', 'Datalog', 'Search', and 'Setup'. Underneath the navigation bar is a menu with icons for 'System', 'LAN', 'Time', 'Addresses', 'Users', 'Display', 'Bridging', 'Diagnostics', and 'Command'. The main content area is titled 'Display Text Details' and contains a table with the following entries:

System Text 1	<input type="text" value="System Text 001"/>
System Text 2	<input type="text" value="System Text 002"/>
System Text 3	<input type="text" value="System Text 003"/>
System Text 4	<input type="text" value="System Text 004"/>
Display Text 1	<input type="text" value="GUARDIAN STAFF"/>
Display Text 2	<input type="text" value="SAFETY SYSTEMS"/>

Below the table is a 'Save' button. To the right of the table is an 'Additional Info' section with the following text:

System Text 1 - 4: Common second address text shown on the lower line of the LCD to specifically identify which X1-X4 Input has been triggered

Display Text 1: The top line of the LCD displays when the system is quiescent.

Display Text 2: The lower line of the LCD displays when the system is quiescent.

Note: You must save, download and broadcast for any changes to take effect.

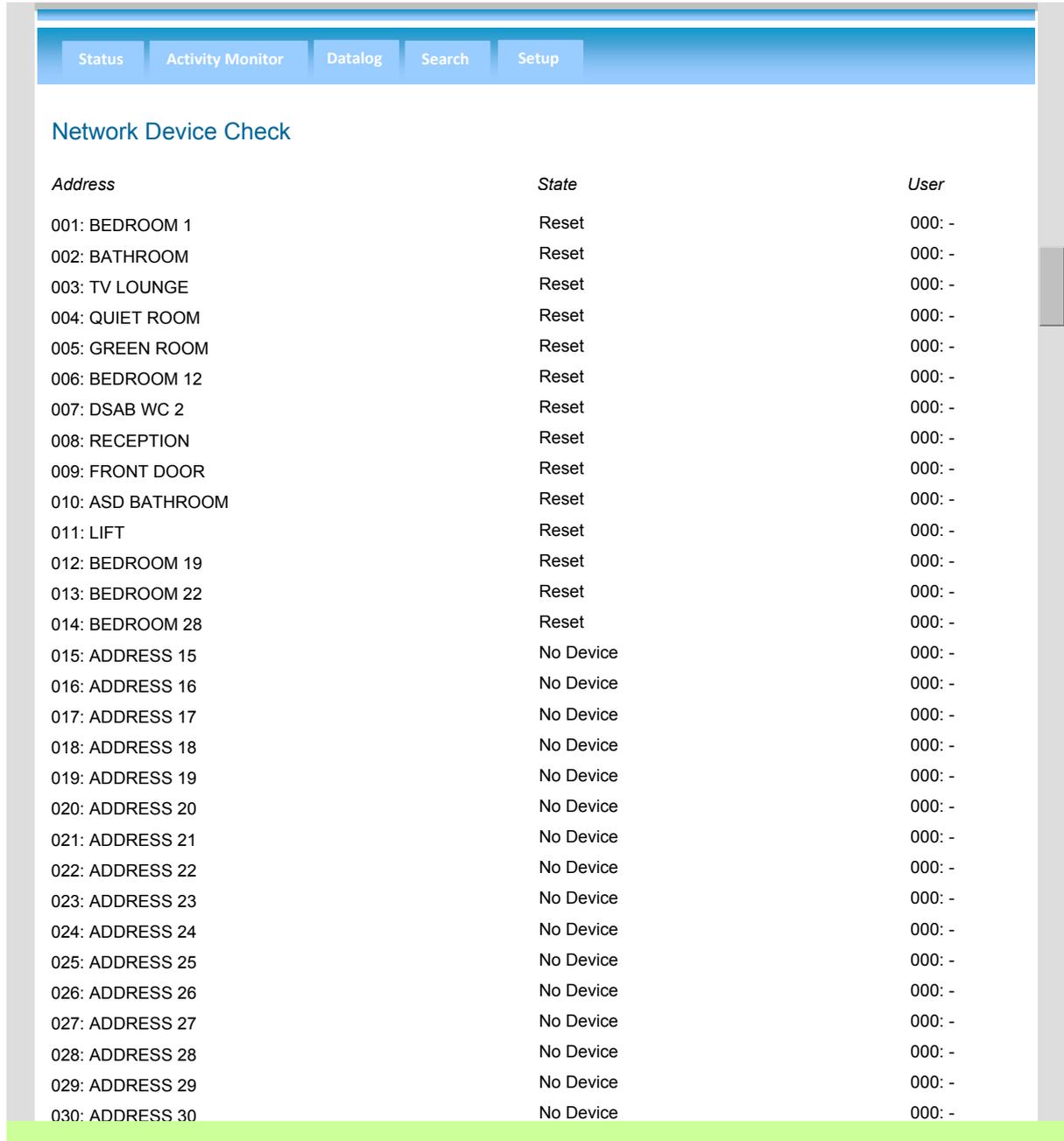
At the bottom of the page, there is a footer with 'Home | Datalog | Logout' links.

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Network Device Check

Under the Diagnostics tab, the Network Device check provides a list of the network devices currently connected to the L7700 IP Controller, together with their current call state and user information.

If any device is being simulated by the IP Controller, for bridging purposes for example, it will be identified with an [S] after the address.



The screenshot shows a web interface with a navigation bar containing 'Status', 'Activity Monitor', 'Datalog', 'Search', and 'Setup'. Below the navigation bar is the title 'Network Device Check'. The main content is a table with three columns: 'Address', 'State', and 'User'. The table lists 30 entries, with addresses ranging from '001: BEDROOM 1' to '030: ADDRESS 30'. The 'State' column shows 'Reset' for addresses 001-014 and 'No Device' for addresses 015-030. The 'User' column shows '000: -' for all entries.

Address	State	User
001: BEDROOM 1	Reset	000: -
002: BATHROOM	Reset	000: -
003: TV LOUNGE	Reset	000: -
004: QUIET ROOM	Reset	000: -
005: GREEN ROOM	Reset	000: -
006: BEDROOM 12	Reset	000: -
007: DSAB WC 2	Reset	000: -
008: RECEPTION	Reset	000: -
009: FRONT DOOR	Reset	000: -
010: ASD BATHROOM	Reset	000: -
011: LIFT	Reset	000: -
012: BEDROOM 19	Reset	000: -
013: BEDROOM 22	Reset	000: -
014: BEDROOM 28	Reset	000: -
015: ADDRESS 15	No Device	000: -
016: ADDRESS 16	No Device	000: -
017: ADDRESS 17	No Device	000: -
018: ADDRESS 18	No Device	000: -
019: ADDRESS 19	No Device	000: -
020: ADDRESS 20	No Device	000: -
021: ADDRESS 21	No Device	000: -
022: ADDRESS 22	No Device	000: -
023: ADDRESS 23	No Device	000: -
024: ADDRESS 24	No Device	000: -
025: ADDRESS 25	No Device	000: -
026: ADDRESS 26	No Device	000: -
027: ADDRESS 27	No Device	000: -
028: ADDRESS 28	No Device	000: -
029: ADDRESS 29	No Device	000: -
030: ADDRESS 30	No Device	000: -

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Bridging - System Bridging

This screen controls the way that the IP Controller communicates with other IP Controllers over the Local Area Network. The Transmit and Receive Broadcast must be selected and the Broadcast Port set to 6345 to ensure communication between controllers, and the Intersniff network configuration software. Further information on Bridging can be found elsewhere in this manual.

The screenshot shows the Guardian IP web interface for System Bridging configuration. The page has a blue header with the Guardian IP logo and navigation links for Home and Logout. Below the header is a menu bar with tabs for Status, Activity Monitor, Datalog, Search, and Setup. A secondary menu bar contains links for System, LAN, Time, Addresses, Users, Display, Bridging (selected), Diagnostics, and Command.

System Bridging

Transmit Broadcasts

Receive Broadcasts

Broadcast Port

Channel ID

Channel Name

Local Accept Timeout (secs)

Bridging Options:

Address Pool From: To:

Distributed System Options:

Only Apply if User and Event Not Already Active

Accept Mode

Current Bridging Entries: ([Click here to add a new entry](#))

Index	Channel	Address	User	Event
-------	---------	---------	------	-------

Additional Info

Transmit Broadcasts: Enable Network events to be sent over the LAN. This option must be enabled when interconnecting systems or using network access software (e.g. InterSniff)

Receive Broadcasts: Enable Network events to be received over the LAN. This option must be enabled when interconnecting systems or using network access software (e.g. InterSniff)

Broadcast Port: Ethernet port number used for communication. All Guardian equipment is configured to use the default port 6345, changing the port on a single device will prevent communication with other devices.

Channel ID: Unique Channel Number for this controller used when setting up connections between systems.

Address Pool: Range of device addresses reserved on this network for incoming calls from other systems, these addresses cannot be used on this controller for network devices

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Bridging - System Bridging

This screen deals with how an incoming event (from another system) is manipulated to this system. To simplify the process, we have divided the process into four steps; Incoming Event, Change Event, Process Event and Accept Event. A zero in the field indicates "All" or "Any".

Guardian IP Home Logout

Status Activity Monitor Datalog Search Setup

System LAN Time Addresses Users Display Bridging Diagnostics Command

Add New Bridge

STEP 1: Incoming Events

Channel From: 0 To: 0

Address 0 0

User 0 0

Event Any Event Any Event Except

Day/Night Mode Any

STEP 2: Change Events

Address No Change 0

User No Change 0

Event No Change 128: Reset

STEP 3: Process Events

Log Locally

Apply to Local Network

Apply to Local Network if User And Event Not Already Active

Use Virtual Address store

Send as SysX

STEP 4: Accepting Events

Accepting Cannot Accept

Save

Additional Info

This screen deals with how an incoming event (from another system) is manipulated before being transferred to this system. To simplify the process, we have divided the process into four steps: Incoming Event, Change Event, Process Event and Accept Event. A zero in any field indicates all or any.

Step 1 Incoming Event

Channel – Receive events from the system(s) with the following channel numbers, a range can be set for example From channel 1 to channel 5

Address – Limit the reception of events to the following device address(es) on the specified system

User – Limit reception of events to the following User ID's from the specified system(s)

Event – Limit reception to one type of event only or a consecutive range of event types. Tick the Except button to specify all events excluding the specified event.

Step 2 Change Event

The incoming event can be changed before it is shown on this system.

Address – There are four options: no

Step 1: Incoming Event

Channel – Receive events from system(s) with the following channel numbers. A range of channel numbers can be set, for example **From** Channel 1 **To** Channel 5.

Address – Limit reception of events to the following device address(es) on the specified system(s).

User - Limit reception of events to the following User ID's from the device address(es) on the specified system(s).

Event - Limit reception to one type of event only or a consecutive range of events. Tick the Except button to specify *all* events *excluding* the specified exception.

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Step 2: Change Event

Address – There are four options available;

No Change: The same incoming address is shown on the receiving system
Add Offset: a numerical value is added to the incoming address number
Map to New: The incoming event is transferred to a single address
Use Address Pool: Use the device addresses reserved on this system within the Address Pool settings on the main bridging page.

User – There are three options;

No Change: The same incoming User is shown on the receiving system
Add Offset: a numerical value is added to the incoming User number
Map to New: The incoming User is transferred to a single User number on the receiving system

Event - There are two options;

No Change: The same incoming Event is shown on the receiving system
Map to New: The incoming Event is transferred to a single specified Event on the receiving system

Step 3: Process Event

You may choose how the *Incoming Event* is processed by this system

Log Locally – Record the incoming event in the Datalog on this system.

Apply to Local Network – Show the incoming event as a network device on this system (i.e. make the Call show on the displays and overdoor lights etc.

Apply to Local Network User ID & Event Not Already Active– If the incoming event and user matches an alarm already being shown locally on this system then do not apply to the network. This is used where a single trigger can activate network devices on more than one system.

Use Virtual Address Store (“Many to One Bridging”) – Where the incoming event is transferred to a single address, (Many-To-One) enable this feature to count the number of incoming calls and resets to ensure the Bridge is only reset when all Many-To-One incoming calls are reset. For example, if 10 call points are set in a many-to-one configuration and two calls are active, two resets are needed to cancel the call on this system.

Send as SysX – Enable this feature to send the incoming events text descriptions to the displays on the receiving system(s). The call will show and sound on the displays as though it originated from this systems. This feature will only operate with the new 254 Address Capable Display Units, and is not compatible with the legacy Guardian/Intercall Displays.

Step 4: Accept Event

This final dialog deals with what happens when the incoming event is accepted at a local display unit on the receiving system. There are four options available;

Cannot Accept: The incoming event cannot be accepted on the local displays and any attempt to Accept is ignored.
Accept Locally: The incoming event can be accepted on the local displays and will remain accepted for the period specified in the Local Accept Timeout.
Accept Remote: The incoming event can be accepted on the local displays and will be passed back to the originating calling device which will be accepted also.
Reset Locally: The incoming event can be accepted on the local displays and will be reset. The originating calling device will not be affected.

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Command – Network Commands

The commands page contains three basic commands:

- BROADCAST: Send the current Address, User, System and display text to the display units.
REBOOT: Resets the entire controller and all of the network devices
RESET: Reset the network devices only

The screenshot displays the Guardian IP web interface. At the top right, there are links for 'Home' and 'Logout'. The main header area contains the text 'Guardian IP'. Below this is a navigation bar with tabs for 'Status', 'Activity Monitor', 'Datalog', 'Search', and 'Setup'. Under the 'Setup' tab, there is a sub-menu with options: 'System', 'LAN', 'Time', 'Addresses', 'Users', 'Display', 'Bridging', 'Diagnostics', and 'Command'. The 'Command' option is selected. The main content area is titled 'System Settings' and contains three sections: 'Network Broadcast' with a 'Broadcast' button, 'Reboot Guardian IP' with a 'Reboot System' button, and 'Reset Network Devices' with a 'Reboot System' button. To the right of these sections is an 'Additional Info' box with the text: 'Use the commands found within this page to control the master procedures of your system.' At the bottom of the page, there are links for 'Home | Datalog | Logout'.

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Connecting to the L7700 IP16 Controller

1. **Control Panel – Network Connection** and double click the **Network Connections** icon to open the Network Connections Dialog window. Now select the **Wired Local Area Connection**.
2. The **Local Area Network Connections Status** dialog screen will appear. Select the **Properties** button.
3. The **Local Area Network Connections Properties** dialog screen will appear. Highlight the **Internet Protocol (TCP/IP)** item and select the **Properties** button.
4. The **Internet Protocol (TCP/IP) Properties** dialog window will now appear. Select the **Use the following IP address** radio button and enter 192.168.0.1 and the 255.255.255.0 Subnet mask (as shown in diagram 4).
5. Now Select **OK** and Windows will reassign the computers IP address.
6. Now using a web browser type <http://192.168.0.192> into the address window of the browser. This will open a connection to the L7700 IP16 Web server.
7. You can check the computers IP Address by running a Command Prompt (*Start-Run-type cmd* and select OK). Once the Command Window opens type IPCONFIG and hit enter. The IP address should show as 192.168.0.100.

