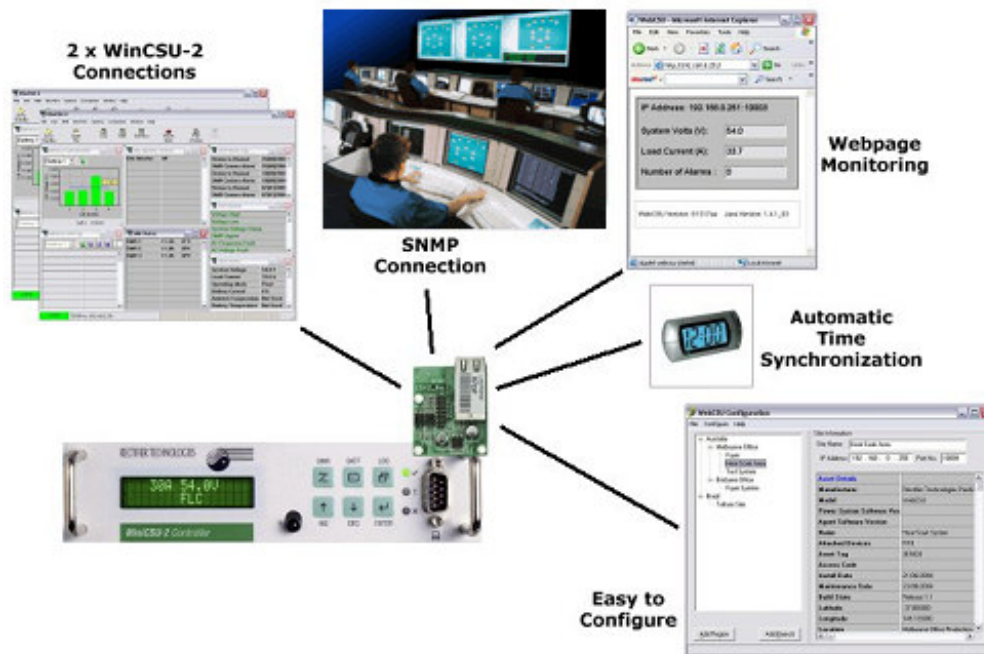




WebCSU



Description

The WebCSU system is an embedded network server, that allows the RTP power system controller, MiniCSU-2, to be accessed from anywhere in the world.

WebCSU runs over any IP network, including the Internet, and allows communications using RTP's WinCSU, SNMP and HTTP.

The SNMP interface allows read only access to all of the MiniCSU-2 parameters, from a remote Network Management System. The WebCSU unit allows you to setup which alarms you want reported as SNMP traps.

Using RTP's monitoring program, WinCSU-2, you can monitor the MiniCSU-2 status, on up to 2 separate computers, at any given time. Or alternatively, you can monitor the MiniCSU-2 status, via a web browser with no additional software required.

Features

- ✓ Allows monitoring of remote locations over the Internet, or network connection
- ✓ HTTP access means no software required
- ✓ SNMP access to view entire system parameters, status and provide alarm notifications to any Network Management System
- ✓ Plug 'N' Play directly into an existing MiniCSU-2 product. No extra space required.
- ✓ Update the MiniCSU-2 Firmware remotely.
- ✓ Windows based tool for remote configuration.
- ✓ SNTP client means MiniCSU-2 is always synchronized.





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SNMP Interface

The SNMP interface provides any authorized user read-only access to over 210 parameters and all status variables of the MiniCSU-2, from a Network Management System (NMS). The NMS can be configured to view any set of parameters via the supplied SNMP MIB.

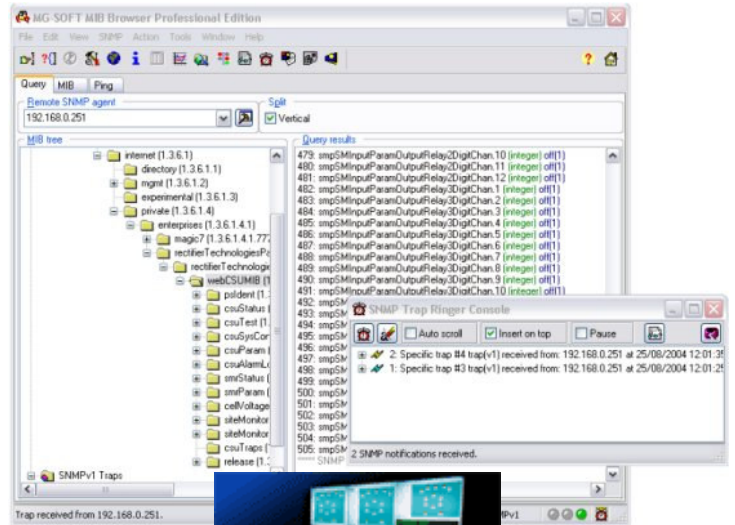
The Windows configuration tool allows you to setup which alarms you want reported as SNMP traps. The enabled traps are sent to the NMS, notifying the network center operator of any alarm conditions that exist in the power systems.

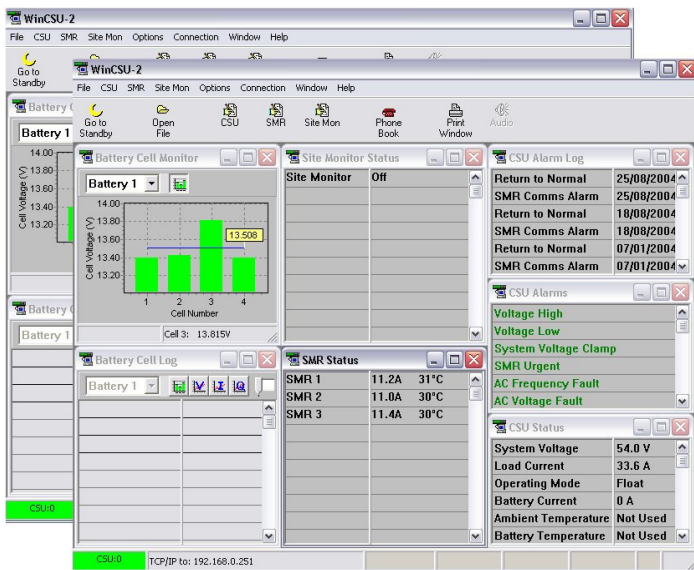
Examples of these traps are:

- CSU alarm added to the alarm log
- CSU alarm removed from the alarm log
- System On Battery (issued every 60 seconds)
- Battery Discharge Complete

The SNMP Interface also comes complete with new user configurable asset management parameters, including

- Asset Tag Number
- Installation Date
- Last Maintenance Date
- Latitude/longitude of the system location
- Location Description





WinCSU-2 Monitoring

WebCSU allows 2 simultaneous WinCSU-2 connections to be made to any given MiniCSU-2 unit.

Previously via any interface, only one unit has been able to monitor the unit using WinCSU-2 at any given time.

Now up to 2 WinCSU-2 applications can be used to monitor any given site, simultaneously.

Simple Network Time Protocol Synchronization

WebCSU is also a SNTP client. This means that the WebCSU unit can update its internal clocks with an extremely accurate Internet Time Source, such as time.nist.gov

As the WebCSU unit powers up, it sends out a request to the Time Server, and once the reply is received, it updates the MiniCSU-2 time with the accurate time, provided by the time server.

It also includes time zones. Since internet time servers only give UTC time (Universal

Time Co-ordinate) which is akin to GMT (Greenwich Mean Time), the local time zone needs to be taken into account. Using the configuration tool, you can set the time zone, and whether you're in daylight savings, for your unit, and then, as the time updates, the time zone bias is also added, taking your MiniCSU-2 to an accurate local time.

The WebCSU unit is set to update this time daily, so you know you'll always have accurate time.





WebCSU

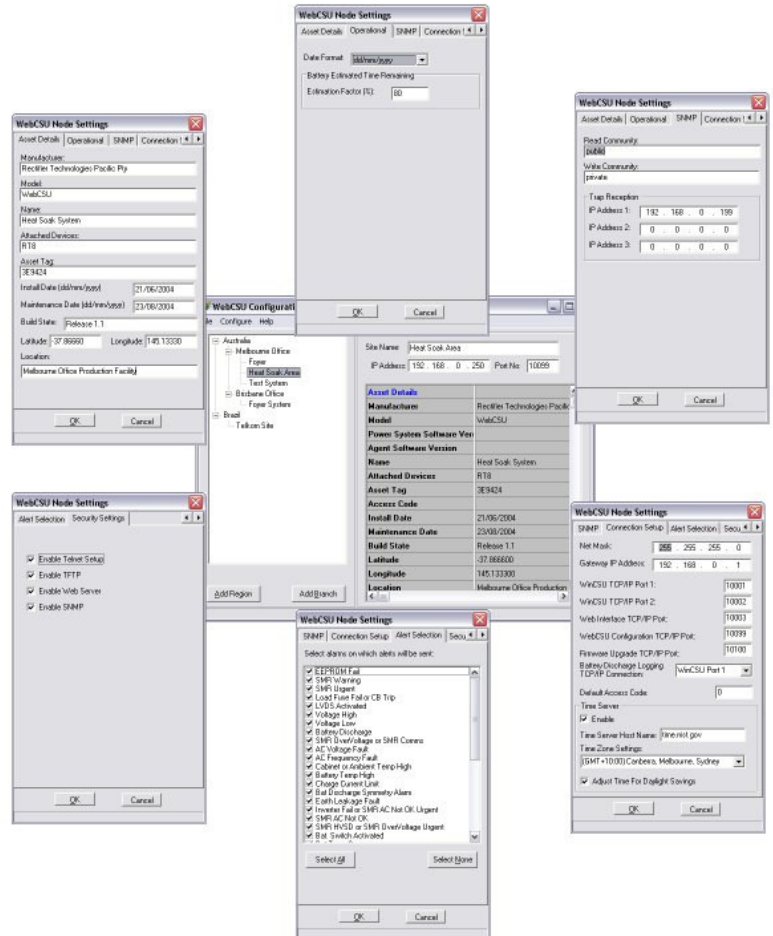
Configuration of the WebCSU

The configuration of the WebCSU unit is done via a Windows® based tool, that runs over TCP/IP, allowing you to store many sites configurations in one location.

The configuration tool allows you to completely customize your WebCSU unit's details. Some of the parameters you can customize are:

- Network Gateway,
- SNMP Configuration
- Time Server and Time Zone,
- WinCSU Connection Ports,
- Web Interface Connection Ports,
- Firmware Upgrade Ports,
- Asset Tags,
- GPS Co-ordinates,
- Installation Date,
- Maintenance Date,
- Any many more.

This tool is password protected, and locked to individual computers, for additional security. Logs of all transactions using this tool are stored in the Windows Event Log, and also sent to a designated Syslog server.





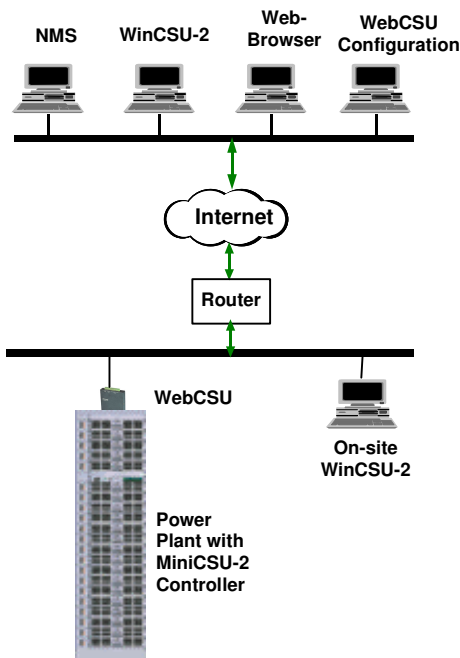
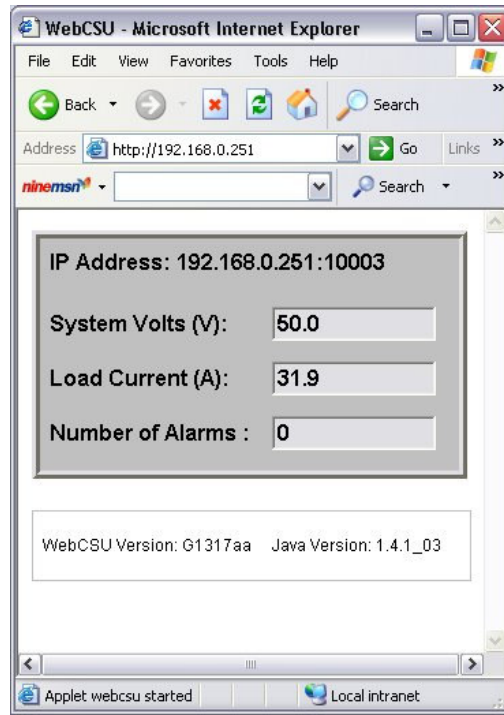
WebCSU

HTTP Interface

WebCSU includes a mini Web Server, to allow you to check the system status of a MiniCSU-2 system, remotely, using only a Java-enabled web browser.

The web interface provides the user with basic status information including:

- System Voltage
- System Current
- Number of Alarms



Network Connections

WebCSU can be configured to communicate across an Intranet or the Internet via a gateway router. When communicating across the Internet WebCSU will operate in conjunction with a secure VPN connection to ensure absolute system secure.



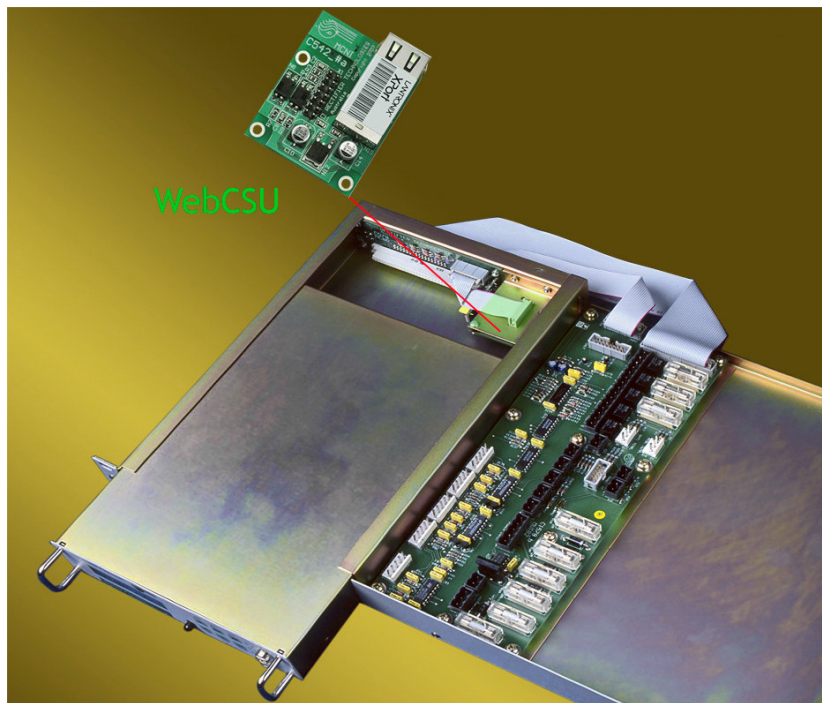


WebCSU

Hardware

The WebCSU plugs into the remote communications port, located on the backplane of the MiniCSU-2. It does not require any external power.

The interface module can auto-sense the network data rate and can automatically configure itself to be 10Base-T or 100Base-T.





Technical Data

Network Interface	
Interface:	Ethernet 10Base-T or 100Base-TX (Auto-Sensing)
Connector:	RJ45
Protocols:	ARP, Telnet, TFTP, SNMP, HTTP, SNMPv1, TCP/IP, UDP/IP, RTP proprietary control protocol,
Indicators (LED)	
10Base-T connection	
100Base-TX connection	
Link & activity indicator - Full/half duplex	
Management	
SNMPv1, Telnet, and Microsoft Windows® based utility for configuration	
Internal Web Server	
Serves web pages and Java applets	
Architecture	
Firmware:	Upgradeable via Microsoft Windows® based utility
Included Software	
MS Windows® based configuration tool	
MS Windows® based Lantronix XPort Installer (for setting the IP Address)	

