



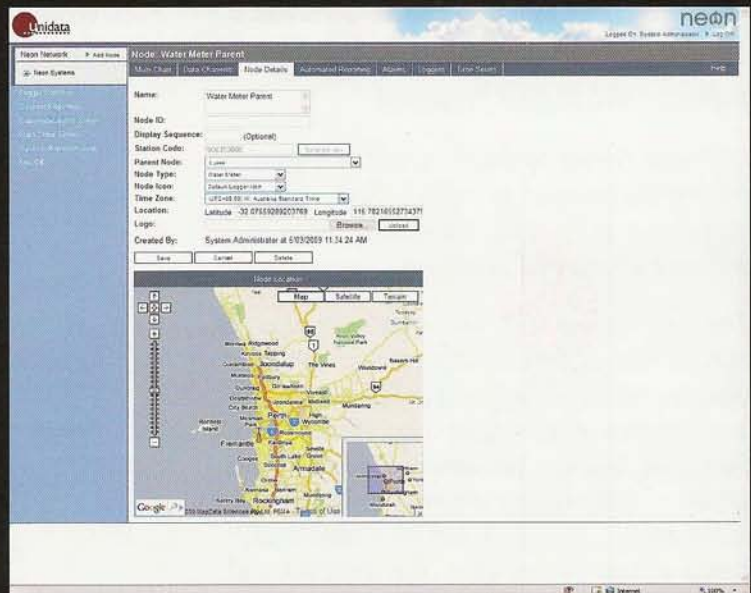
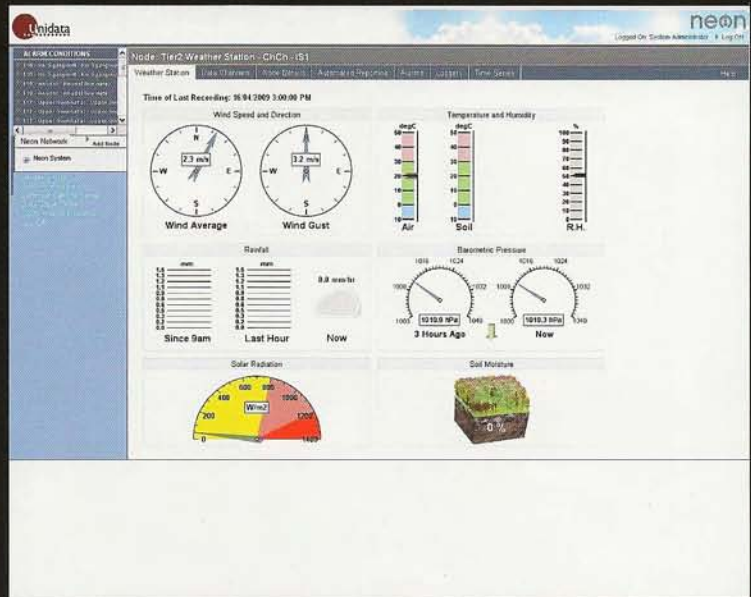
2302A Neon Server Applications Software

Suitable for:

- Remote data monitoring and acquisition
- Environmental compliance reporting
- Metering for utilities
- Asset monitoring

Features:

- Low overhead
- Scalable architecture
- Software to be installed on
 - Windows XP computer
 - Windows 2003/8 server
 - multiple W2003/8 servers
 - large-scale virtual servers
- View data from any browser on the internet
- Reconfigure Neon remote loggers on-line
- Diagnose and reset Neon remote loggers on-line
- Upload new logger schemes on-line
- Automated FTP/ Web Services/email reports
- Automated email and SMS alarm notifications
- True IP services/guaranteed data delivery system
- Industry standard microsoft.net architecture



Neon Server Applications Software

The Neon Server Applications software is a suite of software and documentation which allows clients to set up their own Neon system on existing server hardware, or new server hardware located at the client's premises. The software is provided on a licence basis and allows clients to set up a

measurement system using Neon Remote Terminals/loggers in the field and have these communicate with the central server. Services to install, set up, commission, and support the Neon server are provided. Annual software maintenance and application support agreements are available.



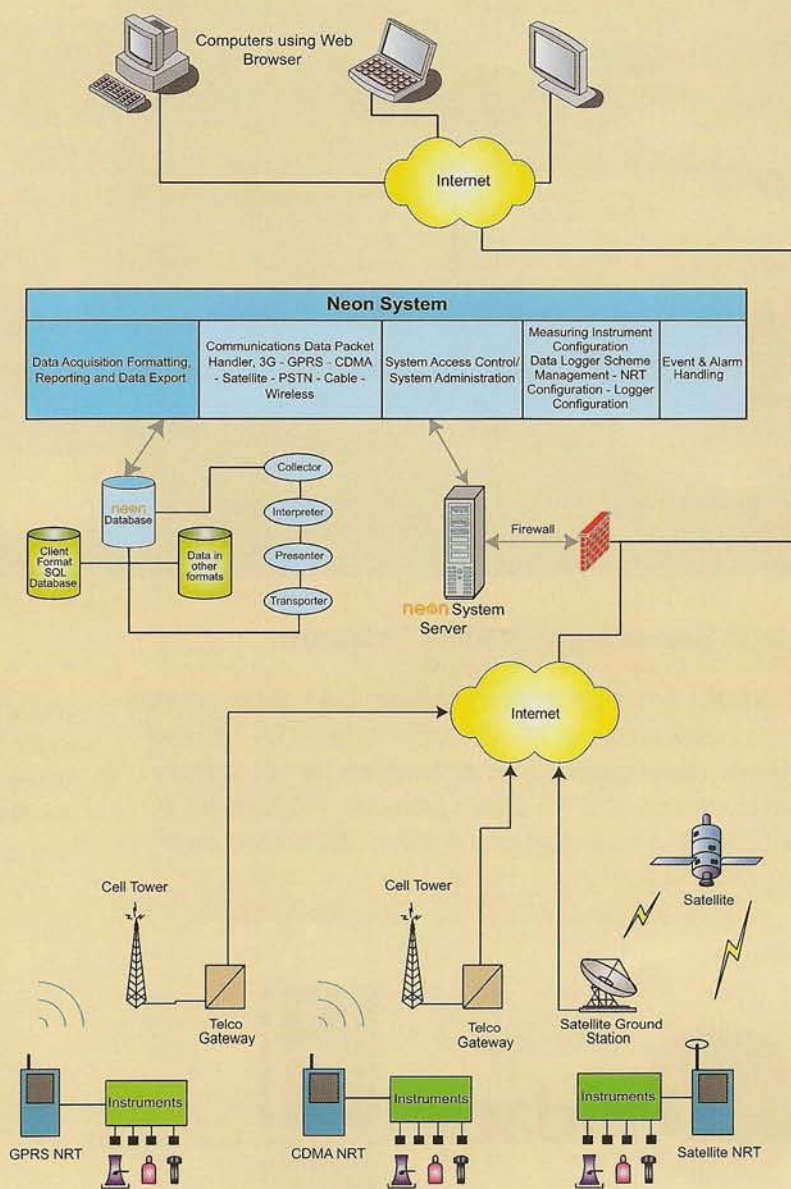


Neon Server Applications Software for environmental monitoring & automated meter reading

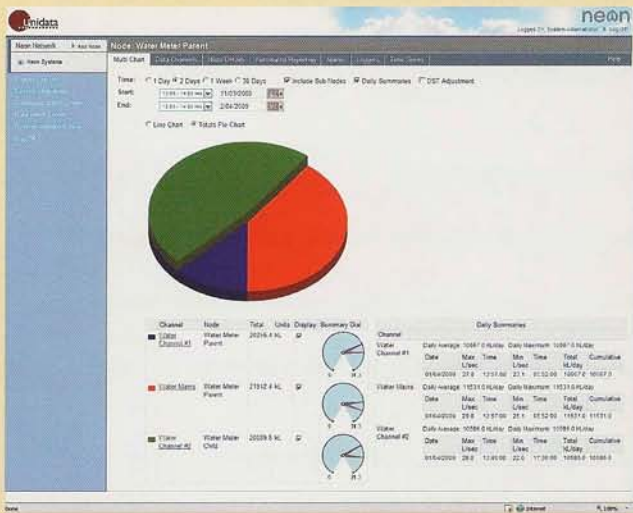
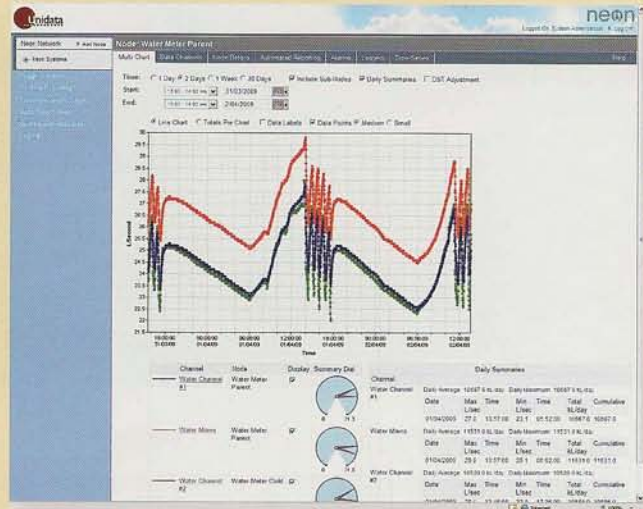
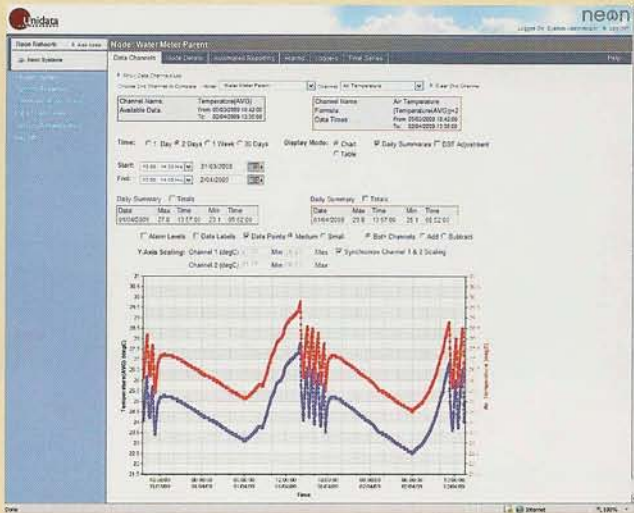
The Neon Server Applications software uses leading technologies to provide access to remote instruments in the fields via standard internet access methods and protocols.

The Neon Server Applications software provides remote data collection and logger-scheme updating for Neon Remote Terminals (NRTs) and any connected loggers (e.g., Starlogger, Prologger, Starflow Instrument, Precision Water Level Instrument) from any internet access point in the world. The system has been specifically designed for environmental data collection and automated meter reading. Low cost and very low power consumption with a high level of on-line access, diagnosis, and reconfiguration have been key design targets.

Neon System



Neon screen display examples



Name	Device Key	Unit	Data Unit	Data Manipulation	Presentation	Active
Flow Meter Parent	20218	L/s	Flow Meter	None	Flow Meter	0
Flow Meter Child #1	21112	L/s	Flow Meter	None	Flow Meter	0
Flow Meter Child #2	20218	L/s	Flow Meter	None	Flow Meter	0

Alarm Type	Logger and Source	Alarm Code	Alarm Action
High Temperature	Temperature	101	Send Email
Low Temperature	Temperature	102	Send Email

Report Name	Status	Data Channels	Report Format	Report Delivery	Report Times
Pressure Report	Active	Pressure	HTML	Email	01:00, 08:00, 15:00
Pressure Report	Active	Pressure	PDF	Print	01:00, 08:00, 15:00

The Neon Software can display the data in a tabular form, or export the data to an excel spreadsheet. It can also be graphed on the screen. There are several ways of selecting the data period to view, to export, or to graph.

Server Platform Software Details

Microsoft Windows 2003 Standard or Small Business Server, supplied with appropriate license, recovery CD and manuals

Neon Server Application Software

This software is used to provide communicate between the server and on site loggers. Main functions include:

1. Retrieving data from the loggers and storing the data on the server
2. Managing logger configuration
3. Uploading new programs and logger schemes to the loggers
4. Displaying retrieved data in real time
5. Sending automated data reports to external systems

User Interface

The application software has a web-site user interface that can be accessed from anywhere on the Internet.

Logger Capacity

The application software is able to handle at least 500 loggers, assuming that the communication parameters have been appropriately configured.

User Capacity

The application software is able to handle 500 configured users. The concurrent usage is dependent on server hardware and internet bandwidth capability.

Logger configuration

All configuration and operating parameters of the loggers can be remotely managed via the application software. Users do not have to visit loggers on location to change their operating parameters.

Logger Network Configuration

The application software can group loggers and display data according to an unlimited number of geographic areas and locations.

Data Display

Retrieved logger data can be viewed in real time, via the following methods:

1. Charting
2. Data Table
3. Excel Export

Network Map Display

Geographic areas, locations and loggers can be assigned a Latitude and Longitude and then displayed on a geographic map.

Logger Network Status

The application software can display the status of each location in the network and indicate if the logger is inactive, operating normally or has an alarm condition. This status is also displayed on the Network Map.

Alarm Configuration and Notification

Logger alarms conditions can be configured via the software application and can notify users of active alarms via the following methods:

1. Web site on screen display
2. Email
3. SMS

Automated Data Export

Automated data reports can be configured to export logger data from the Neon server to an external database.

User Security

The application software can handle any number of security access profiles, which can be configured according to access requirements. These access profiles can control which geographic area, location or logger a user can access

System administrators can create users and assign the appropriate security access profile to them.

Available from:



Taihoro Nukurangi

NIWA – Instrument Systems

Ph. +64 3 343 7890

Fx. +64 3 343 7891

Email: instruments@niwa.co.nz