

CENS : G-Node

Integrated monitoring solution from data to desk top

CATS EYE
NETWORKS

Capture events – and take control

Do you need to detect and measure events remotely? Do you need to bring the data back from the field for analysis? Are you monitoring critical events and threshold parameters? Would it be useful to view your data on demand and provide alerts on pre-set values?

Cats Eye Network Systems (CENS) have the answer to these needs in our latest G-Node, our programmable, smart, mini-server with **built in GPRS connectivity** offering a full data capture to desktop capability.

The node also provides you with **two-way communication** with the field.

- Gather data on multiple digital or analogue channels, on-board memory & processing.
- Send tailored datagrams through a local or wide area network or internet.
- Transmit alerts at pre-set thresholds, forward to mobile networks if required.
- Send return commands to change system or equipment settings.
- Stream reverse path data for remote information displays.

A full solution from data to desktop

With our nodes you also get access to our CENS network infrastructure. Datagrams from your node can be sent direct to any servers to collect data on a 24/7 365-day schedule.

Using our Main Highway server database you can access the data remotely for your own needs or use our data presentation packages to present data to a dedicated user group.

Make your data valuable

Other add-ons to complete the end-to-end solution include access to registration and transactions packages. This allows you to send data to your chosen user group and even generate a revenue stream from its use.

To find out more:
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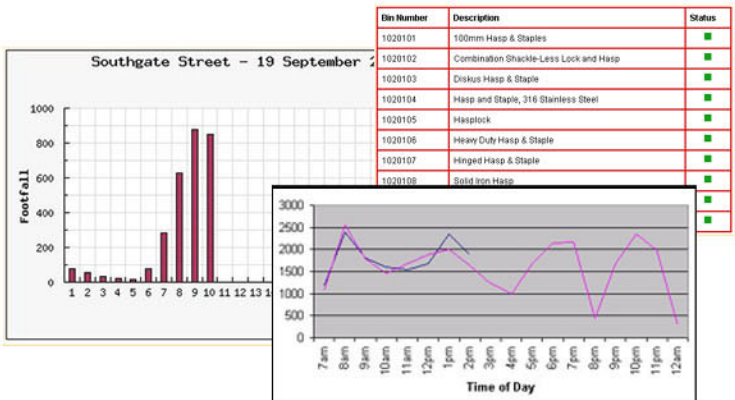


Measuring approx 15cm x 10cm x 8cm deep (IP65 enclosure) and powered by a 12v DC feed the CENS G- Node comes with built in GPRS connectivity, a full data streaming package and customisable server side capture. (Cutaway cover is for illustrative purposes only)

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29) -1 0 1 73 2 0 -24 3 0 26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
30) Counter=73 A/D=1134mV Temp=26.0°C
31) Raw 11 31 22 73 1134 26.0
32) Valid Datagram 15d 9m 3y 11h 31m 36s
    
```

Raw data is collated in the IP based Data Node and sent as a tailored UDP or IP data packet via GPRS, (LAN or RF wireless are also available) to a server database.



Data received can be presented in easy to read graphical or list form, adding value for all the users in your team or third party subscribers using standard web browsers.

CENS Networks - G-Node

Technical Specification

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Hardware:

- Embedded high speed low power RISC based microcontroller.
- On board Real Time Clock controlled event monitoring
- Non volatile memory for data storage
- Re-programmable FLASH based firmware memory facilitates in-field upgrading.
- Warning lights and event trigger LCD's
- Power: 12v external power source. Solar panel if required. Internal backup battery - 2 year life.
- Inputs: Digital or analogue mini-jack, RS 232, LTP 5v, Operator activated switch.
- Outputs: LAN, GPRS, Bluetooth, RF Wireless, Modem, SMS

Software:

- Embedded command program and transmission controller.
- UDP and HTTP socket protocol management
- Potential to include embedded module for on-line servlet managed continuous data delivery.
- Alternative clock-based periodic transmission mode management module
- Customisable UDP or TCP-IP datagram generation module.
- Return path event action handling module to generate action or information outputs.
- Video and/or other data codecs built in as required.
- Encryption available as an add-on.

Server Side:

Inputs:

- Datagrams in UDP or IP format to a dedicated IP target address.
- Server capture can be configured to SQL, MySQL, Oracle, PHP or other receiving protocols.
- Data table collects real time or pre-processed transmissions as raw source for histories or audit analysis based on configurable database queries.

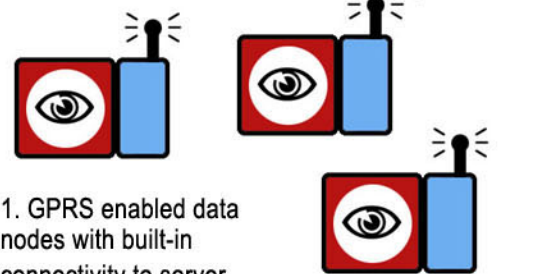
Outputs:

- Return path alerts based on predictive analysis
- Wide area forwarding of alerts and/or information to line management or third party contractors on a need-to-know basis.
- Graphical presentation package available to display histories and analysis to your user group
- Log-in access with revenue earning transactions module available as an add-on

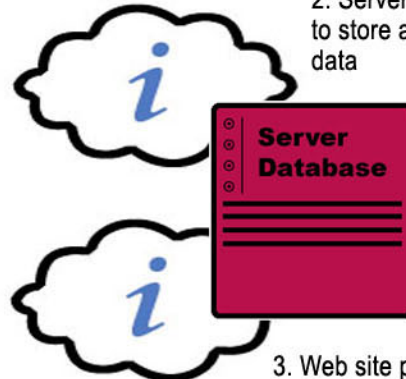
Business process integration:

- Full history and audit analysis for cost reduction and productivity enhancement.
- Multi-user access permissions as required with need-to-know browser viewers.
- Data analysis support to pre-agreed service levels.

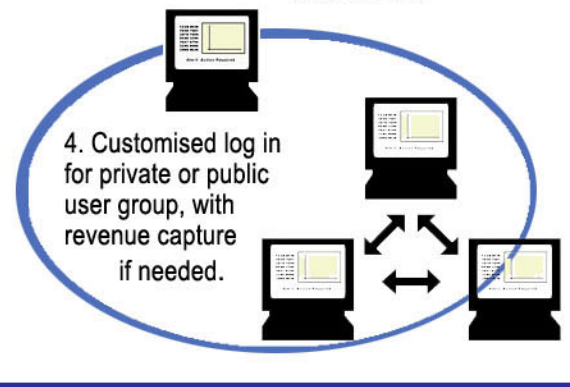
Our CENS G-Node offers a data to desktop integrated solution and includes:



2. Server database to store and query data



3. Web site package to display data in graphical or data table format.



G-Nodes are available as OTS items. Server, database, web presentation and log in can be client provided.

For more information contact:

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