# Discovery

## SIMPLE SEISMIC NETWORK MANAGEMENT AND INSTRUMENT QUALITY ASSURANCE

### Discovery dramatically simplifies instrument and data management and quality assurance, giving users access to powerful digitiser tools via its built-in web browser.

Discovery is the software platform for next generation Güralp digitisers.

Developed by Güralp, Discovery eliminates the need for static IP addresses by identifying the digitiser's address automatically. Discovery scans local networks and/or uses a registry (based in the data centre or the cloud) to identify digitisers on the public Internet.

Discovery also allows for simpler instrument and data management with access to hardware State-of-Health (SoH); data streaming; GNSS (Global Navigation and Satellite System) location; instrument response and calibration values.

The system offers a range of data quality assurance tools to assist in analysing instrument performance.

## Key features

IP address discovery of instrumentation on LAN or Internet

Simple instrument and data management with access to hardware State-of-Health (SoH); data streaming; GNSS location; instrument response and calibration values

Data can be streamed in GCF and GDI formats

GDI protocol streams data sample-by-sample and can incorporate instrument calibration parameters, so enabling low latency display of instrument output

Perform advanced analysis on waveform data, including plotting power spectral density graphs (PSDs), spectrograms, discrete Fourier transforms (DFTs), and histogram displays

Available for Windows, iOS and Linux operating systems

Map of triggered events from CAP (Common Alert Protocol) reciever

Facility to remotely upgrade the digitisers' firmware

Calibration of the Radian digital seismometer and traditional analogue seismometers

## State-of-health information

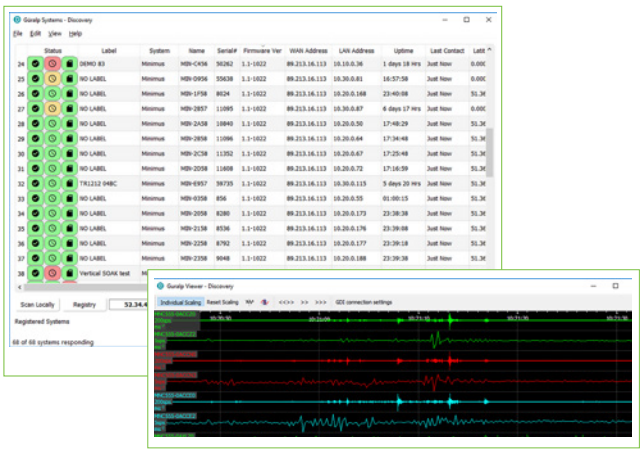
The Discovery web browser interface provides state-of-health information about the digitiser and connected instruments:

- Host name and label
- System and product types
- Digitiser IP address
- Digitiser activity status
- Digitiser uptime and contact time
- Supply voltage
- Digitiser temperature, humidity and pressure*
- GNSS (Global Navigation and Satellite System) and PTP (Precision Time Protocol) status*
- MicroSD cards recording status and available storage space*

* Stand alone and integrated Minimus digitisers only

## Discovery toolkit

See pages 2 - 4 for a view of the network management tools available in Discovery

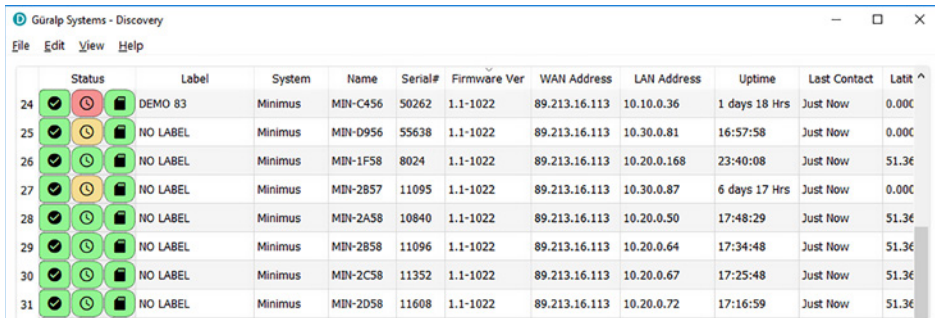


Further screenshots and example →

# Discovery Toolkit

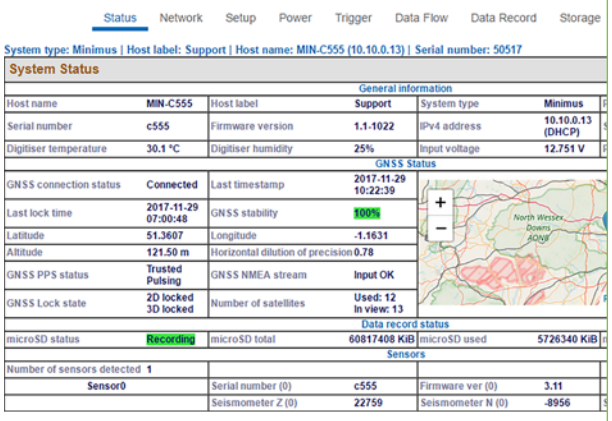
## Network overview

Traffic light status system for rapid network assessment

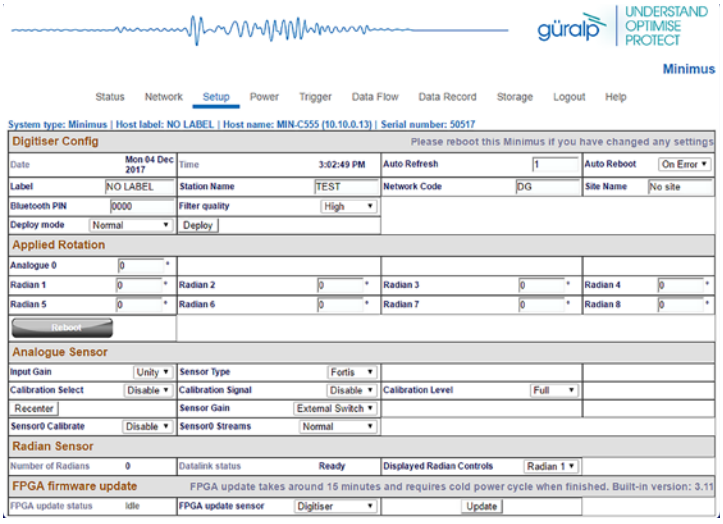



## Digitiser web interface

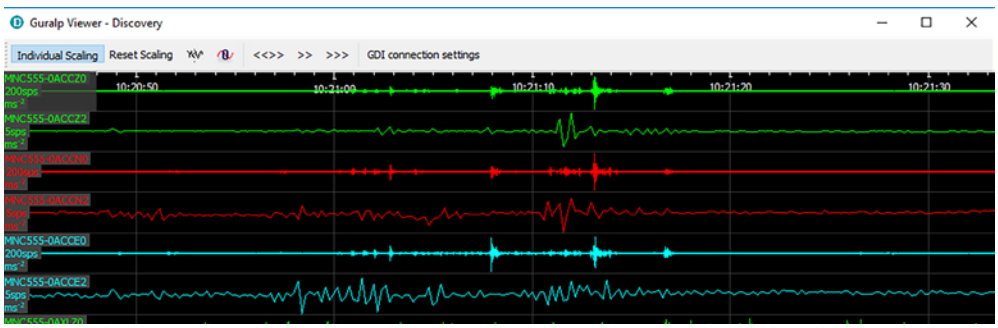
Access networked digitser web interface



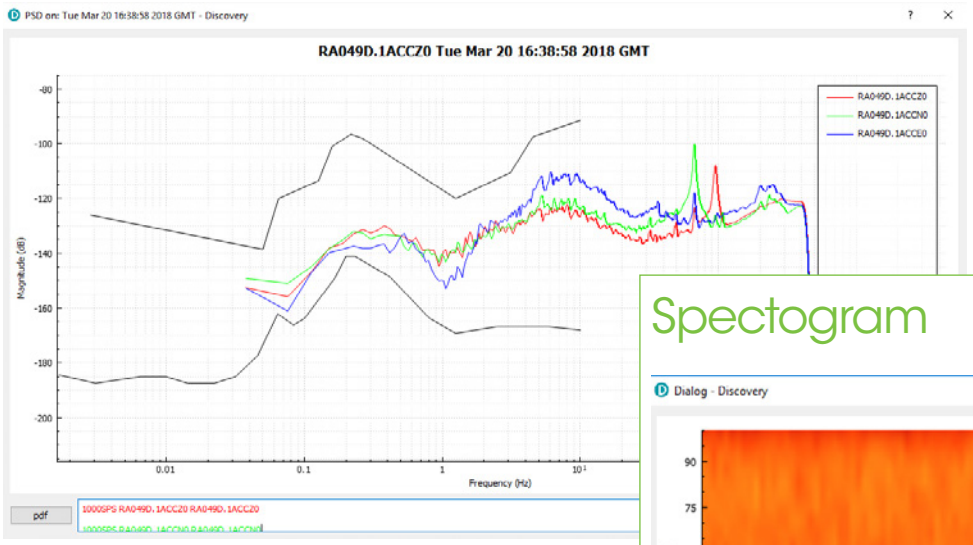

## Digitiser configuration



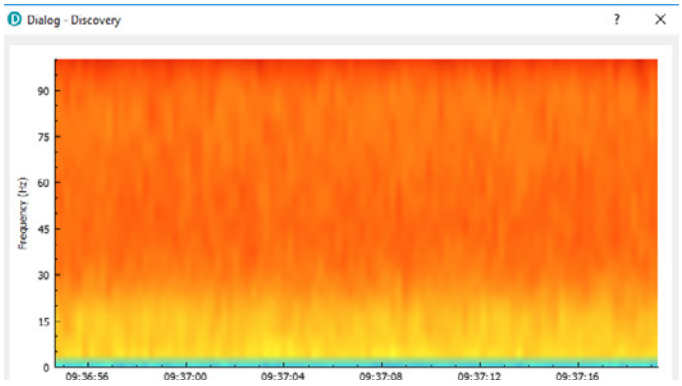

## Real-time waveform viewer



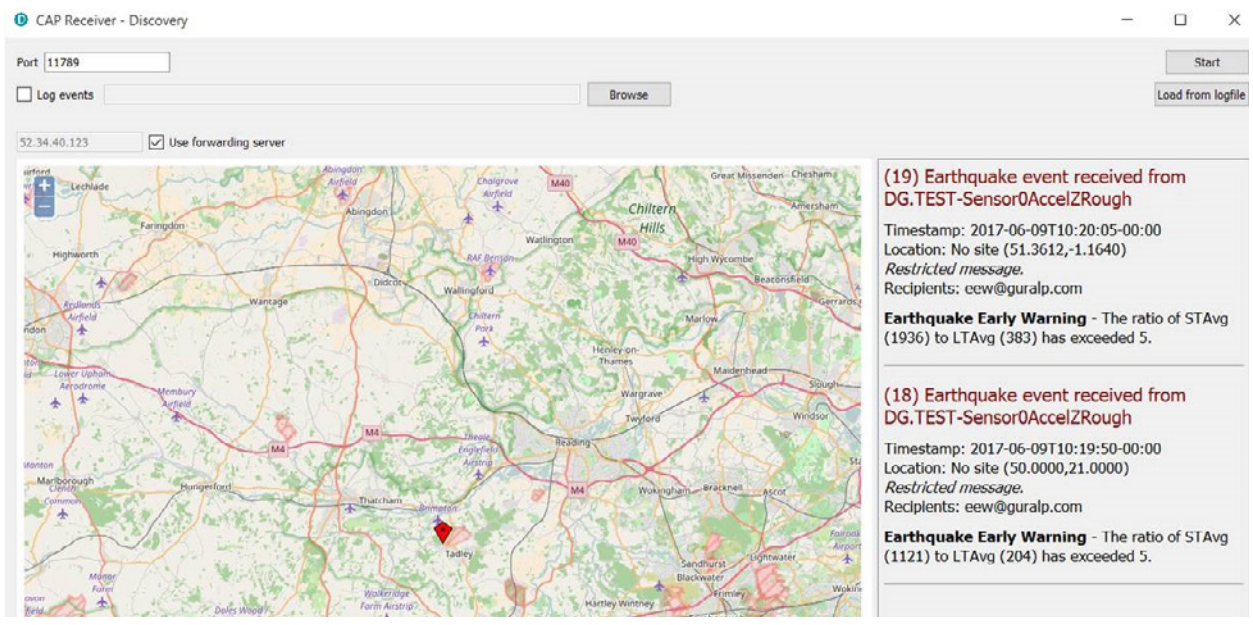
## Instrument power spectral density graphs




## Spectogram




## Map of triggered events from CAP receiver




Network diagram →

# Discovery

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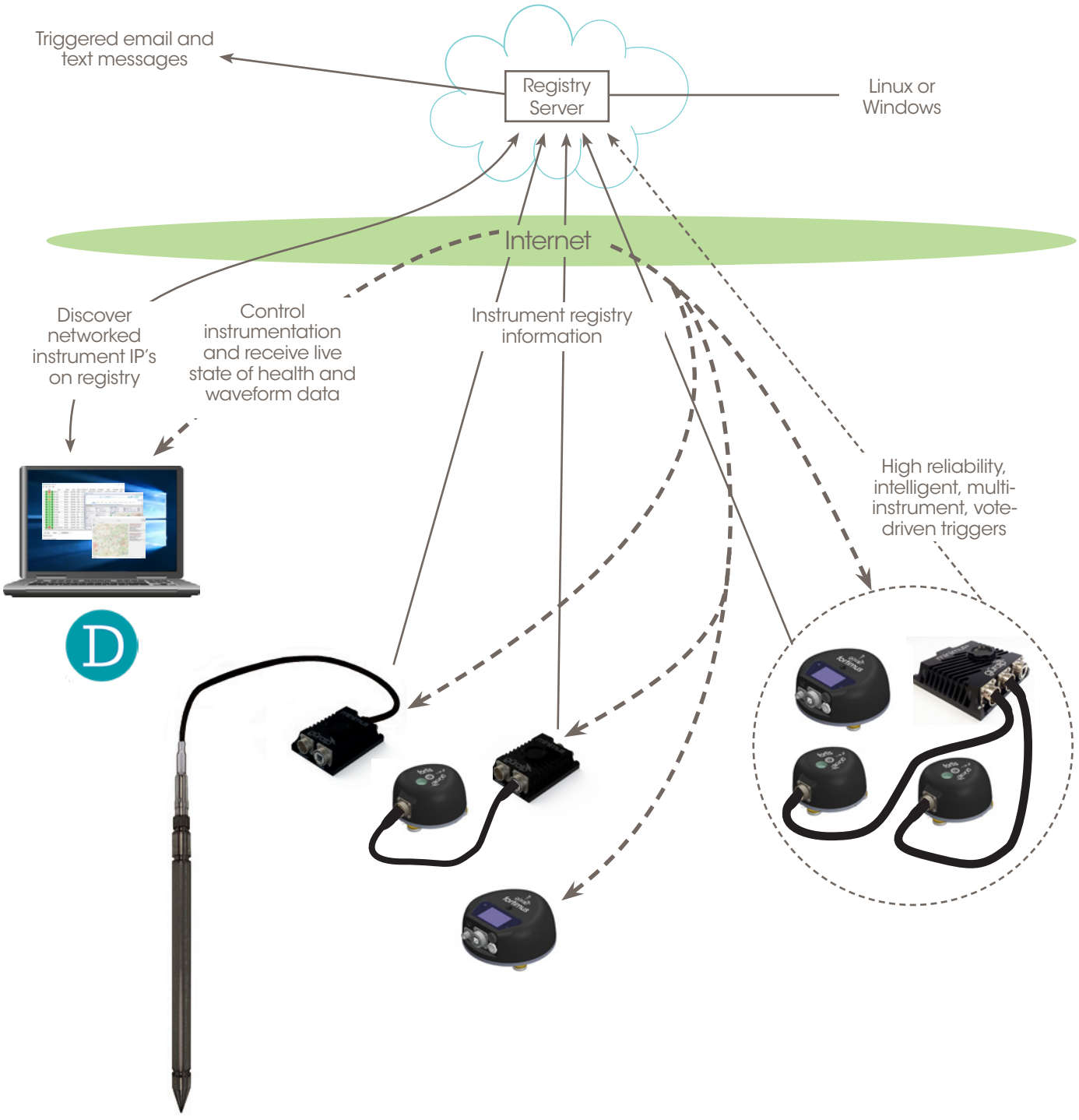
## Network management using Discovery





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