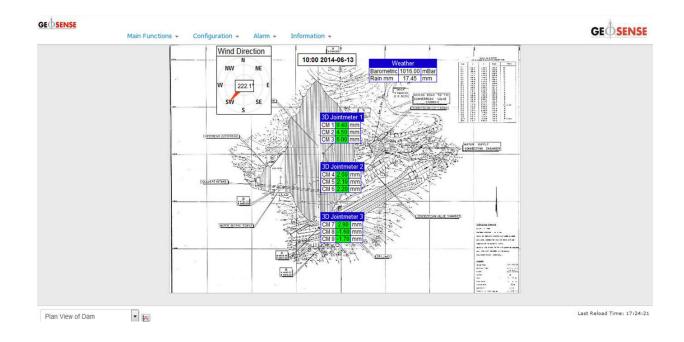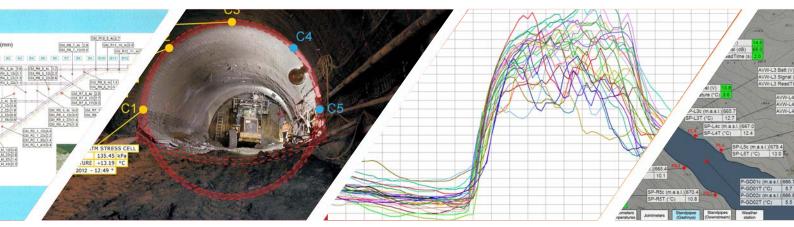# Data Visualisation Software Geo-Axiom Vista

GeoAxiom Vista is a specialist Geotechnical software which provides data handling, storage, visualisation, alarms, reporting and web-based access from any size of automatic data acquisition system

GEOSENSE

Data Visualisation Software GeoAxiom Vista

Product Overview

GeoAxiom Vista is a specialist Geotechnical software which provides data handling, storage, visualisation, alarms, reporting and web based access from any size of automatic data acquisition system.
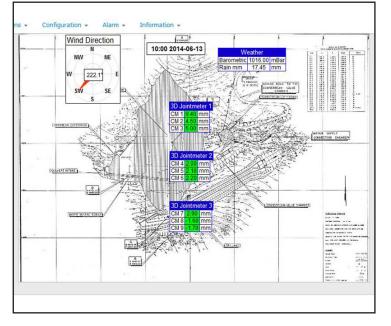
It comprises of three main components:

DataStore
The GeoAxiom Vista DataStore is a MySQL database and includes a wizard for building SQL queries to retrieve data. Data from any system can be transferred into it and can be viewed in a table or graph and saved to any computer.

DataViewer
Data within the DataStore can be accessed via the DataViewer using a powerful web browser which allows the user to view trend lines, inclinometer data, real time displays and G-Maps.

Internet Publisher
Using a special web browser, most of the information within db.data.browser can be published to the internet and accessed via any Internet browser.

APPLICATIONS

For the visualisation and presentation of data from:

Vibrating wire sensors

4-20 mA sensors

mV sensors

Inclinometers

Robotic Total Stations

Manual readings

GPS stations

Webcam

FEATURES

Data presented as photographs, plans or cross-sections

Displacement graphs

Can import Google maps

Trend lines can be generated

Wide range of reports

Highly configurable to suit individual projects

Easy to configure

Near real time data

Can be accessed via Internet

Can be networked

No limit to sensor number

Multi-language options

Data Visualisation Software GeoAxiom Vista

System Overview

DATASTORE

Data from any system is transferred into the GeoAxiom Vista DataStore which is MySQL database and includes a wizard (db.robot.c) for building SQL queries to retrieve data which can be viewed in a table or graph and saved to any computer. All operations are automatic and invisible to the user so there is no need to be a database specialist.

An alarm function allows the user to set alarm thresholds for each sensor and alerts sent via SMS or email.

A validation function can be used to clean-up trend lines with out-of-range sensor readings so that if readings are affected by noise or spikes that are clearly outside the normal range then the validation process will replace that value with the last known good value. Several validation options can be chosen.

DATAVIEWER

All data within the DataStore can be accessed via the DataViewer using a powerful web browser (db.data.browser) which allows the user to view trend lines, inclinometer data, real time displays and G-Maps.

TREND LINE

Features include:
Zoom in and out
Moving back and forth in time.
Single Y-axis or Y-axis both to left and right
Y-axis with auto or fixed scales, linear or logarithmic scales
X-axis with linear of logarithmic time scale
XY graphs
Histogram
Sort-by-size
Table
Intensity Plot
Overlay Graph

INCLINOMETER PLOTS

All inclinometer data including cumulative displacement

REAL TIME DISPLAYS

Real Time Displays use Dash Boards which give clear overviews of the current status of a large project. It allows all sensor groups, dot displays, photographs, trend lines, links, info boxes as well as navigation buttons to zoom deeper into a project or to jump to another display.

Displays include:
Background as a map, photo or drawing
Indicators groups and location markers
Indicators with alarm-coloured background in green, yellow or red indicating alarm status
Trend lines with cursor-on-top reading of sensor values
Photographs
Web links
Navigation buttons

G-MAPS

G-Map is a feature to implement Google Maps into GeoAxiom Vista. During configuration the user will zoom into the Google map display and place a marker at the correct location. Any number of markers may be implemented.

Alarms may be associated with the markers, showing markers as green, yellow or red depending on alarm status. By clicking on a marker all readings will pop up, graph will show as well as information about the location and the user has the option to download the data on view.

INTERNET PUBLISHER

Using a special web browser (db.web.browser) most of the information within db.data.browser can be published to the internet and can therefore be accessed via any internet browser

Data Visualisation Software GeoAxiom Vista

Supply Options & Requirements

CLIENT HOSTING

GeoAxiom Vista is installed on the clients server or a dedicated PC and a special website created. There is a one-off charge for the software and should it be required a setting up fee from Geosense. Once commissioned all future management and running costs will be the responsibility of the client.

GEOSENSE WEBCENTRE

The Geosense WebCentre provides a full data management service to allow clients access to the DataStore and DataViewer via a secure password.

There is an initial set up fee followed by a monthly charge. The amount will depend on the project scope, number of sensors, frequency of readings and alarm requirements. Geosense are responsible for all the management of the system.

HARDWARE REQUIREMENT

Operating System: Microsoft Windows 7 or 8.
CPU: Intel core I3, I5 or I7.
RAM memory: 4GB or more.
Hard disk: Free space minimum 1 GB. Additional 5MB/year per logger (10 columns, 15 min period)

NETWORK REQUIREMENT

Fixed IP number.
The fixed IP number needs a Domain Name that points to that fixed IP number, arranged by the ISP (Internet Service Provider)
Average internet bandwidth of 10 Mb/s. Higher bandwidth adds marginal benefits

GE⏀SENSE

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