MaxView
INTEGRATED MONITORING PLATFORM
INTEGRATED MONITORING PLATFORM CUSTOMISED TO YOUR REQUIREMENTS

The MaxView integrated monitoring platform provides operators with a fully customisable system with advanced visualisation and analytics.

MaxView is a truly versatile solution and has been used in a wide range of industries including power utilities, structural health, processing, refining and pipeline monitoring.

As standard MaxView can interface with standard SCADA, DCS, CCTV... protocols and also with a number of proprietary 3rd party systems.

MaxView is an ideal compliment for existing SCADA and DCS systems or can be a standalone system on it’s own providing you with the information you need the way you want it.
### BENEFITS OF THE MAXVIEW INTEGRATED MONITORING PLATFORM

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
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<tbody>
<tr>
<td>Advanced visualisation creates situational awareness at all points in your infrastructure at all times</td>
<td>Quick response time so effective decision making can reduce risks and improve efficiency</td>
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<tr>
<td>Modular approach – can integrate multiple adaptors and plugins to standard MaxView platform</td>
<td>Easy integration with legacy systems and infrastructure. Flexibility, suits different needs and budget levels</td>
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<td>Distributed, loose coupling approach. No individual node can compromise another part of the system</td>
<td>Improved stability, reduced risk and increased scalability</td>
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<td>Users can access through cloud with web browser interface. No software or hardware installation necessary.</td>
<td>Low cost of ownership – easy to deploy within multi site organisation</td>
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<td>Highly adaptable user interface. Operator can easily configure the GUI to their needs</td>
<td>Bespoke to clients needs and requirements. Higher engagement and improved decision making</td>
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MAXVIEW KEY FUNCTIONS

- Data Export & Import
- Data Storage
- Intelligent Control & Alarms
- Advanced Visualisation
- Complex Analytics

Integrated Monitoring Platform

Advanced Visualisation
- GIS mapping
- 3D Modelling
- Video Streams
- .........

Complex Analytics
- Statistical calculations
- Thermal Modelling
- Machine learning
- .........

3rd party instrumentation, sensors, video...
3rd party data feeds, SCADA...
3rd party control systems (SCADA, DCS...)

Data in
Data out

MAXVIEW KEY FUNCTIONS

Data Export & Import
Data Storage
Intelligent Control & Alarms
Advanced Visualisation
Complex Analytics

3rd party instrumentation, sensors, video...

Advanced Visualisation
- GIS mapping
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Complex Analytics
- Statistical calculations
- Thermal Modelling
- Machine learning
- .........

Integrated Monitoring Platform
MaxView can integrate multiple data feeds (analog, digital, distributed data...) from multiple sites into one centralised database. This can then be accessed by users across the network through a simple web browser interface. Thus minimising IT infrastructure and overheads.

MaxView’s user configurable interface is extremely powerful and allows users to customise to their own requirements, which could include GIS maps, site schematics, P&ID diagrams, electrical network diagrams or 3D structural representations.

Typical MaxView user requirements include:

- Operators with advanced visualisation requirements (e.g. control data, instrument feeds overlaid on a site schematic...)
- Users who have an existing SCADA/DCS system but which is not able to effectively manage or visualise distributed data
- Requirement to consolidate data across multiple sites into one coherent interface
- Requirement for complex analysis and intelligent alarming of data which can then be utilised within the existing SCADA/DCS
MAXIMUM ROBUSTNESS AND SECURITY USING 4 LAYER ARCHITECTURE

The MaxView architecture uses a distributed, loose-coupling approach which means that each of the network nodes is independent of each other. This improves system stability, reduces the risk of any single object in the system and makes the system easily scalable.

MaxView uses a 4-layer architecture comprising the following layers:

- **APPLICATION LAYER** User interface layer which incorporate system configuration, scheduling, control and visualisation.
- **DATA LAYER** MaxView utilises a centralised, unified database for read, write, distribution and analysis.
- **ACCESS LAYER** Protocol/device layer which transfers data from physical layer to data server.
- **PHYSICAL LAYER** The physical device layer which acquires the data, could be sensors, security systems or one of the analytical plug in modules (e.g. RTTR).

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<tbody>
<tr>
<td>Design Component Library</td>
<td>Run time components</td>
<td>Web Client</td>
<td>SMS management</td>
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<td>Application Control Platform</td>
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<table>
<thead>
<tr>
<th>Data Layer</th>
<th>Data Services (Distribution, Collaboration, Web Services...)</th>
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<tbody>
<tr>
<td></td>
<td>Data processing, acquisition, storage, analysis, control, management</td>
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<tr>
<th>Access Layer</th>
<th>Bus protocol, TCP/IP, CDMA/GPRS, multi-media protocol, IEC 104, Custom/proprietary protocols</th>
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<tbody>
<tr>
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<td>Fiber optic, Ethernet, serial</td>
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<tr>
<th>Physical Layer</th>
<th>Video</th>
<th>Sensors</th>
<th>Analytics</th>
<th>Security</th>
<th>SCADA</th>
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<tr>
<td></td>
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<td></td>
<td>modules</td>
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YOU DECIDE HOW TO CONFIGURE YOUR USER INTERFACE

Intuitive parent-child page hierarchy allows you to have a wide range of views from site overview, sub-stations or partial views down to specific pieces of equipment.

The user can select the background image that meets requirements. This could be a site diagram, photo, GIS map or 3D modelling available.

Dynamically linked images can be placed as required on the site overview and can link through to real time sensor information, real time video feeds and intelligent, zone based alarms can be configured as required.
MAXVIEW INTEGRATED MONITORING PLATFORM

USER CONFIGURABLE TO YOUR NEEDS

STABLE, SECURE & SCALABLE

ADVANCED REPORTING & ANALYTICS

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