Bandweaver

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.
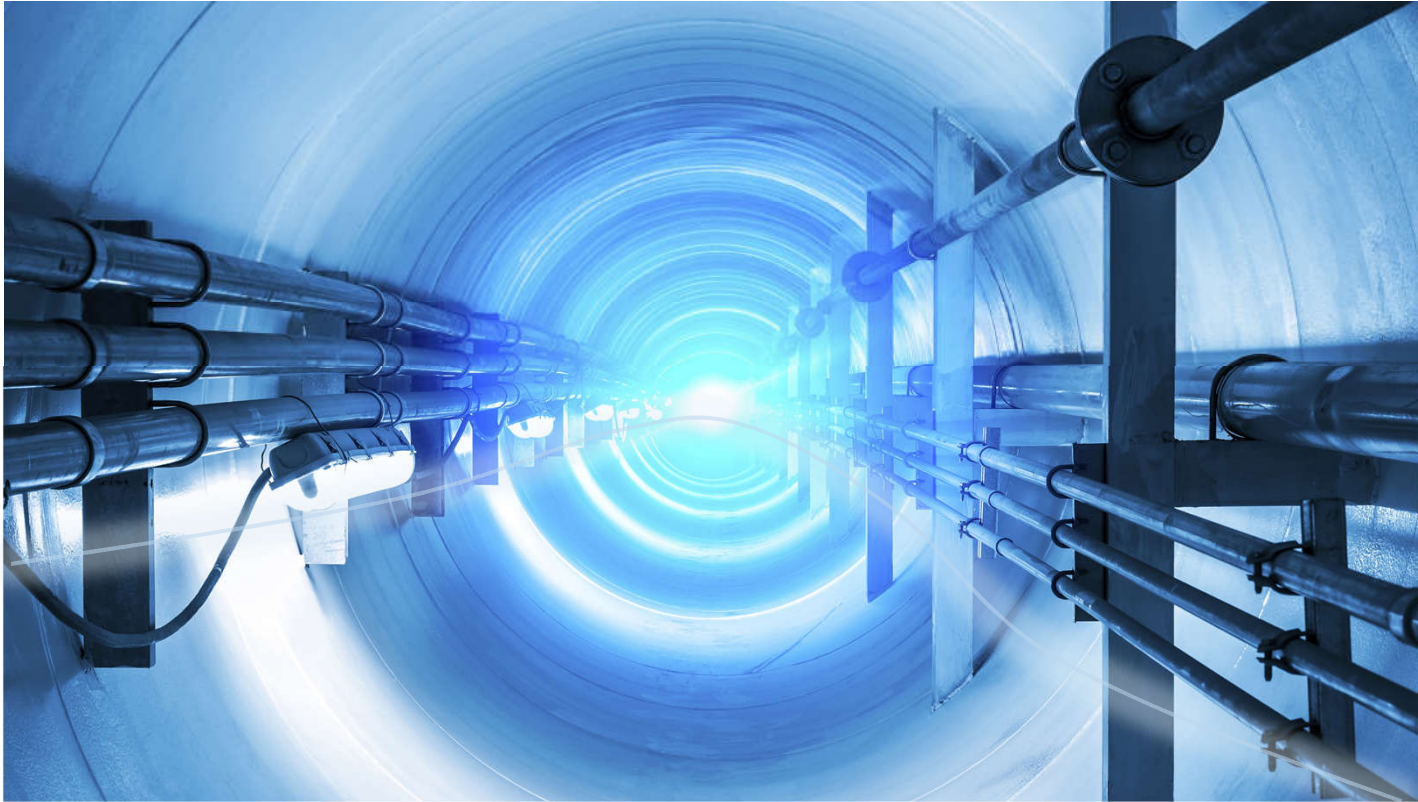
SUPPORTS MULTIPLE DEVICES AND HARDWARE

SCALABILITY ACROSS GLOBAL INFRASTRUCTURE

IMPROVE ROI ON EXISTING ASSETS & SYSTEMS

BENEFITS OF THE MAXVIEW INTEGRATED MONITORING PLATFORM

Features

Advanced visualisation creates situational awareness at all points in your infrastructure at all times

Modular approach – can integrate multiple adaptors and plugins to standard MaxView platform

Distributed, loose coupling approach. No individual node can compromise another part of the system

Users can access through cloud with web browser interface. No software or hardware installation necessary.
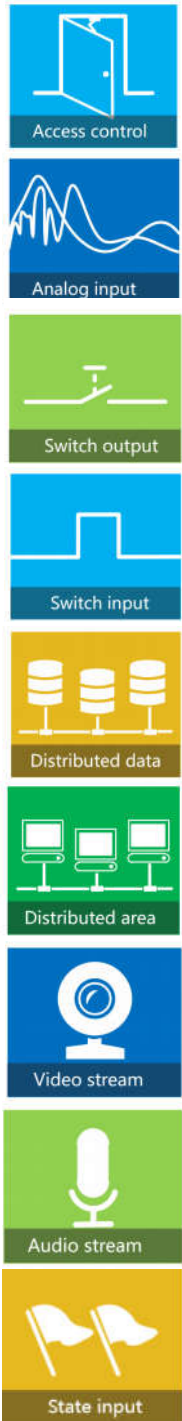
Highly adaptable user interface. Operator can easily configure the GUI to their needs

Benefits

› Quick response time so effective decision making can reduce risks and improve efficiency

› Easy integration with legacy systems and infrastructure. Flexibility, suits different needs and budget levels

› Improved stability, reduced risk and increased scalability

› Low cost of ownership – easy to deploy within multi site organisation

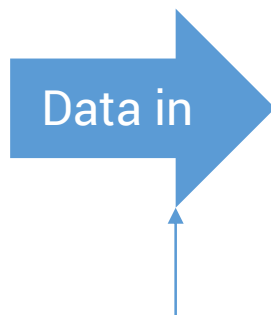› Bespoke to clients needs and requirements. Higher engagement and improved decision making

MAXVIEW KEY FUNCTIONS

› Data Export & Import

› Data Storage

› Intelligent Control & Alarms

› Advanced Visualisation

› Complex Analytics

Input Icons (left column)

- Access control
- Analog input
- Switch output
- Switch input
- Distributed data
- Distributed area
- Video stream
- Audio stream
- State input

3rd party instrumentation, sensors, video…

3rd party data feeds, SCADA…

Data in

Advanced Visualisation

- GIS mapping
- 3D Modelling
- Video Streams
- ………

Max View
Integrated Monitoring Platform

Complex Analytics

- Statistical calculations
- Thermal Modelling
- Machine learning
- ……….

Data out

3rd party control systems (SCADA, DCS…)

MAXIMUM FLEXIBILITY SUITS BOTH SMALL AND LARGE OPERATORS

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)

Application Layer	System Configuration	Object Configuration	Alarm Configuration	User Permissions	......	Operation Configuration	Alarm Timing	Event Query	Implementation	....	Report Display	Video Display	Graphics Display	Plot Displays	....	SMS notification
	Design Component Library					Run time components					Web Client					SMS management
	Application Control Platform										Web Mgmt Platform					Devices
Data Layer	Data Services (Distribution, Collaboration, Web Services…)															
	Data warehouse															
	Data processing, acquisition, storage, analysis, control, management															
Access Layer	Bus protocol, TCP/IP, CDMA/GPRS multi-media protocol, IEC 104, Custom/proprietary protocols ……..										Fiber optic, Ethernet, serial …….					
Physical Layer	Video Sensors Analytics modules Security SCADA ……..															

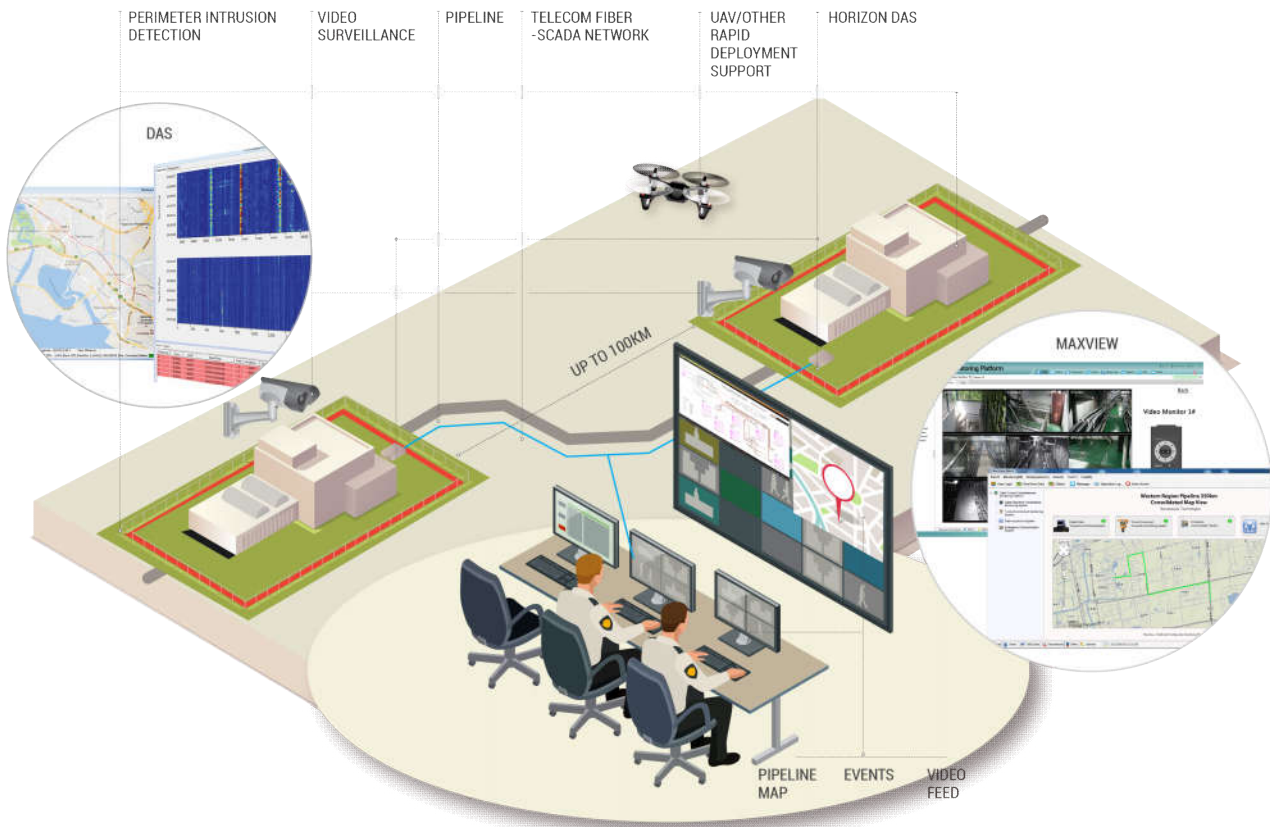# YOU DECIDE HOW TO CONFIGURE YOUR USER INTERFACE

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 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

PERIMETER INTRUSION DETECTION

VIDEO SURVEILLANCE

PIPELINE

TELECOM FIBER -SCADA NETWORK

UAV/OTHER RAPID DEPLOYMENT SUPPORT

HORIZON DAS

DAS

UP TO 100KM

MAXVIEW

PIPELINE MAP

EVENTS

VIDEO FEED

USER CONFIGURABLE TO YOUR NEEDS

STABLE, SECURE & SCALABLE

ADVANCED REPORTING & ANALYTICS

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