





Monitored | Secured | Safe





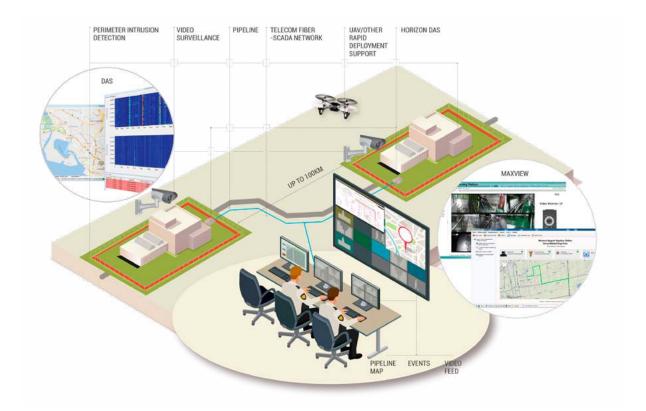
## INTEGRATED MONITORING PLATFORM CUSTOMISED TO YOUR REQUIREMENTS

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, PSIM, VMS... protocols and also with a number of proprietary 3rd party systems.

MaxView is an ideal compliment for existing PSIM, VMS, building management systems, 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.



## **INTELLIGENT INSIGHTS**

#### **Improved Efficiency**

Advanced visualisation creates situational awareness at all points in your infrastructure at all times Quick response time so effective decision making can reduce risks and improve efficiency

#### Easy to Deploy

Low cost of ownership – easy to deploy within multi site organisation. Users can access through cloud with web browser interface. No software or hardware installation necessary.

## Bespoke to clients needs and requirements

Higher engagement and improved decision making. Highly adaptable user interface. Operator can easily configure the GUI to their needs



# 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.

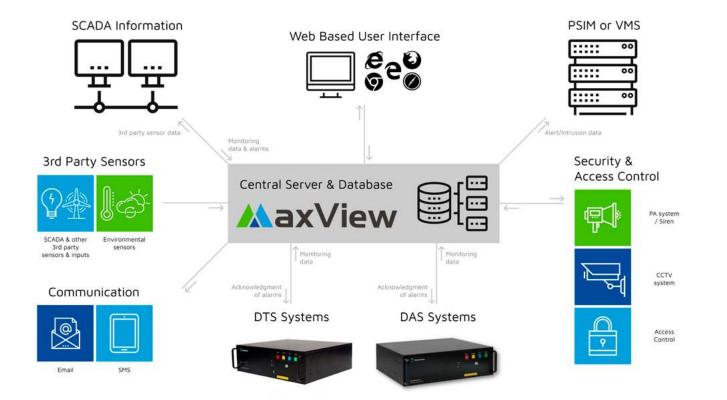
MaxView's user configurable interface is extremely powerful and allows users to customise to their own requirements, which could include GIS maps, site schematics, P&ID diagrams, electrical network diagrams or 3D structural representations.

#### Typical MaxView user requirements include:

 > Operators with advanced visualisation requirements (e.g. control data, instrument feeds overlaid on a site schematic)

 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 or PSIM, building management system



# SMART MONITORING



## MaxView: Smart

## SMART INDUSTRIAL MONITORING SOLUTIONS

MaxViews's versatile architecture allows it to be used across a number of different industrial monitoring solutions. With the ability to import multiple sensors and data streams, it can be an effective platform for integrating multiple systems and software packages.

Some of the applications include:



### Smart Cities

Deployed in multiple metropolitan areas (e.g. digital utility tunnels) MaxView combines environmental monitoring, access control and security into a single user friendly interface



#### Conveyor belts

Incorporating both DTS and DAS solutions MaxView can combine both Fire detection functionality and condition monitoring into a single interface

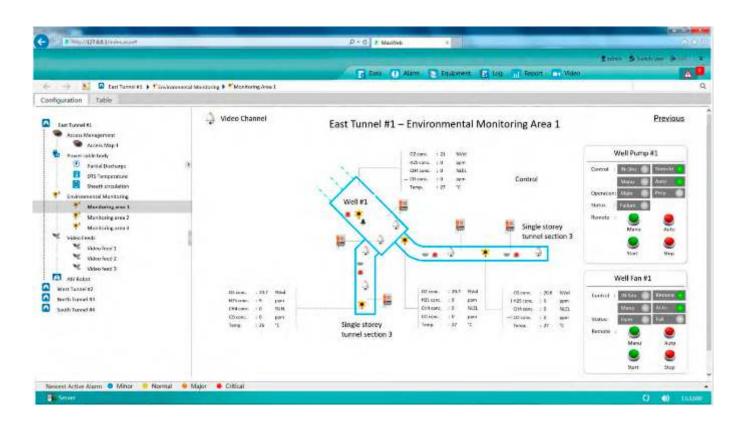


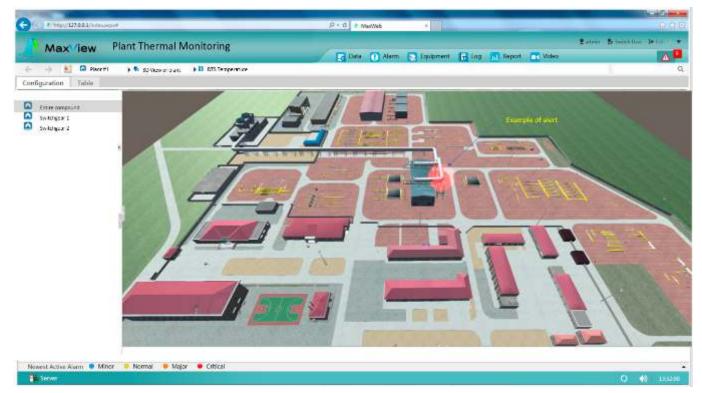
#### Railway

Incorporating Bandweaver's Horizon DAS, MaxView visualises the entire rail network with the ability to monitor rockfall, line intrusion, train location and rail/wheel condition monitoring

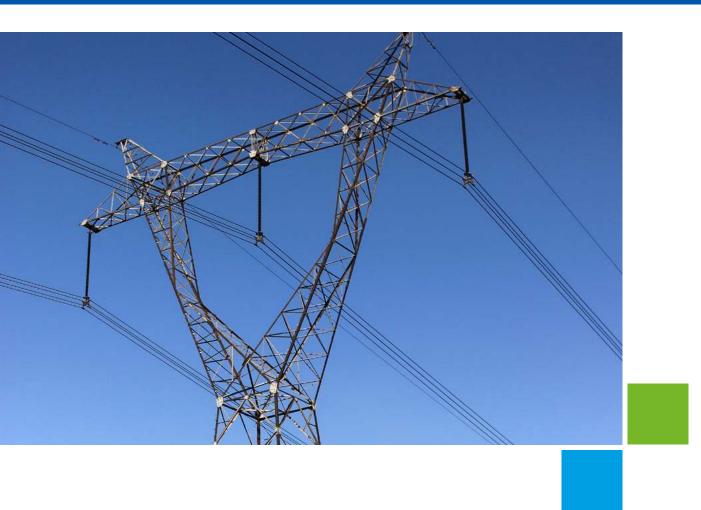
#### **Refinery and process plants**

3D visualisation of plants to provide thermal profiles and condition monitoring of equipment and assets





# POWER



## MaxView: Power

### INTELLIGENT CONDITION MONITORING

Bandweaver has worked together with customers and technology partners for more than 10 years to develop condition monitoring solutions for the intelligent grid which have mainly been based on Real Time Thermal Rating (RTTR) systems utilsing DTS to achieve the temperature profile.

When used alongside a proactive maintenance approach, our state of the art sensing systems and intelligent software provide the operator with the right information at the right time to make decisions that help you to reduce planned and unplanned maintenance, to avoid catastrophic failure and to effectively manage your risk.

MaxView adds another dimension for integrating, managing and visualising RTTR solutions.

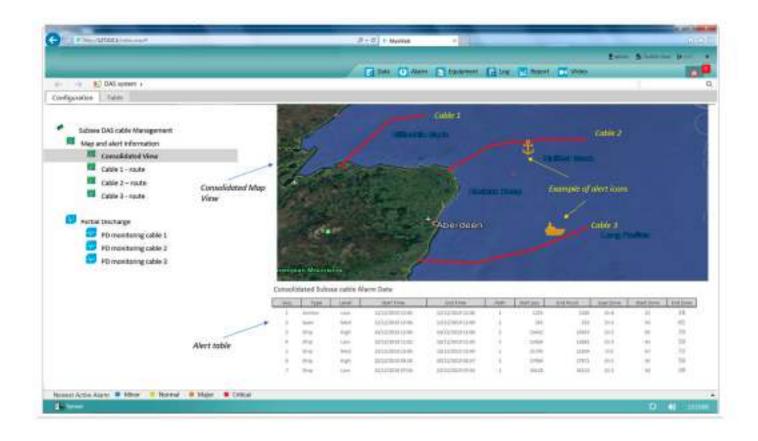
#### Some of the key benefits include:

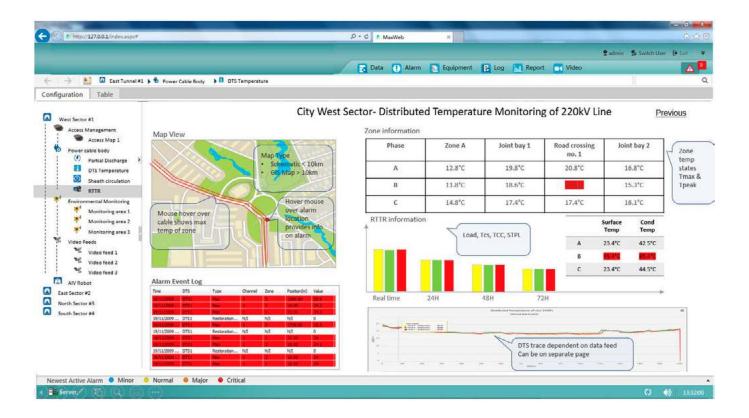
Single centralised control point for monitoring all of the RTTR systems across the whole network

> Multiple users can access from a desktop web browser (or mobile device) to quickly obtain critical data to make key decisions

> Visualisation of cable route, with fully zoomable map which can clearly locate and identify any potential bottlenecks or areas of interest Schematics or 3D modelling of specific areas of interest.
Examples have included cable joints, gas insulated conductors

Integration with other 3rd party systems. For example this has included examples such as partial discharge monitoring, access control, environmental monitoring and tunnel CCTV





# SECURITY



## MaxView: Security

### PERIMETER INTRUSION DETECTION

Perimeter Intrusion Detection Systems (PIDS) are systems used in an external environment to detect the presence of an intruder attempting to breach a perimeter.

Fiber optic technology is fast becoming the technology of choice for those looking for a reliable, accurate solution with minimal infrastructure requirements.

Bandweaver's fiber optic intrusion detection can detect both vehicle and person movement, enabling swift deployment of security teams to multiple incidents.

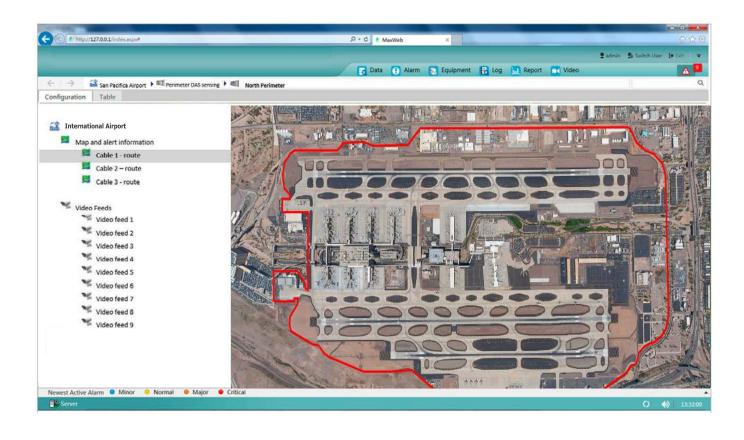
The fiber can be attached to a fence or buried underground, enabling the solution to be utilised for a wide range of applications. The system is fully scalable for small sites through to perimeters and borders greater than 100km.

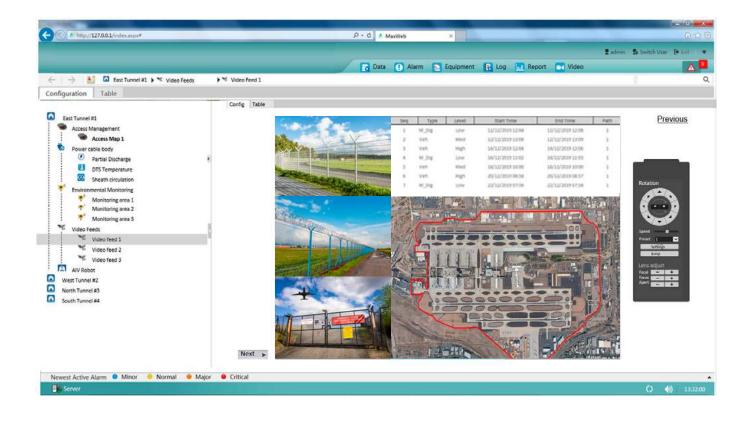
From the MaxView software platform operators can quickly by alerted of a potential perimeter breach and track in real time the progress of any intruders.

With accurate real time location information indicated on the dynamic map view together with audio and visual alerts MaxView is the ideal solution to protect your asset, no matter what the size.

Multiple cameras can also be directly integrated into MaxView providing a secondary visual indication of a perimeter breach for ultimate operator confidence.

With the ability to seamlessly integrate to 3rd party software including PSIM, VMS, SMS, etc MaxView plays a key part in your centralised security monitoring software.





# PIPELINE



## MaxView: Pipeline

### **MONITORING AND TPI PREVENTION**

To protect vital infrastructure that is particularly vulnerable to disruption, it is critical to keep assets such as pipelines secure. Whether the threats arise from accidental damage such as from 3rd party construction or deliberate interference, including terrorism, tapping or other malicious attack, there is a need to deploy a reliable and accurate solution.

Such solutions also aid the reduction of environmental pollution or maximisation of uptime through smart maintenance programs. Whether it is a remote long distance pipeline, an inner city pipe at risk of accidental damage or a process facility with condition monitoring requirements, Bandweaver's unique and versatile range of systems can help.

Our pipeline protection solutions includes both condition monitoring and leak detection systems based on Distributed Temperature Sensing (DTS) and Distributed Acoustic Sensing (DAS) systems, providing Third Party Interference (TPI) prevention.

#### MaxView can bring together both DTS and DAS and provide the following key benefits:

> Consolidation of all of the different sections of cables along the pipeline route to provide one coherent map view. This has full zoom functionality and all events are shown on the map. Pinpointing to within 5m so that action can be taken in a timely manner Integration of both DTS and DAS to provide both intruder based alarms and detection of leaks anywhere along the length of the pipeline Integration with 3rd party SCADA and PSIM systems so that data can be exported in the format that provides maximum benefit to the user and rapid decisions can be made



MaxView Software at Central Control Station





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