PROFEN
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Monitor, Control & Management System

A New Era in NMS Technology

Key Features

- Multi-client, multi-level, multi-task user configuration and authorization.
- M&C of geographically dispersed earth stations, teleports, data centers, remote and diverse sites.
- Multi-level real time signal tracking, fault diagnostics, alarm correlation, graphical signal analysis in real time and oi-line stored data.
- Audible and visual notification of alarms and events.
- Alarm masking, alarm disable/enable, severity ratings.
- Email notification of alarms or events based on preferences or system requirements.
- Task scheduler to run daily, weekly and monthly single or multi-threaded tasks.
- Unlimited redundancy scenarios at circuit or service level, such as traffic routing switching, task switching or facility switching etc.
- Automation and management of monitoring of environmental and security systems such as doors, climatic system and fire protection systems in a facility.
- Alarms and user events are instantly stored to the database, and logs can be exported as CSV, HTML, PDF or image format.

Profen Visionic Monitor, Control & Management System, developed locally and nationally by Profen; is a complete system management tool developed for satellite teleports, telecommunications systems, SCADA applications, data center applications, IoT applications and facilities requiring smart management.

With its next generation capabilities **Profen Visionic** provides monitoring, control and management of ground stations, with its advanced features that regulate workflows, manage maintenance processes and generate reports in specified format and criteria.
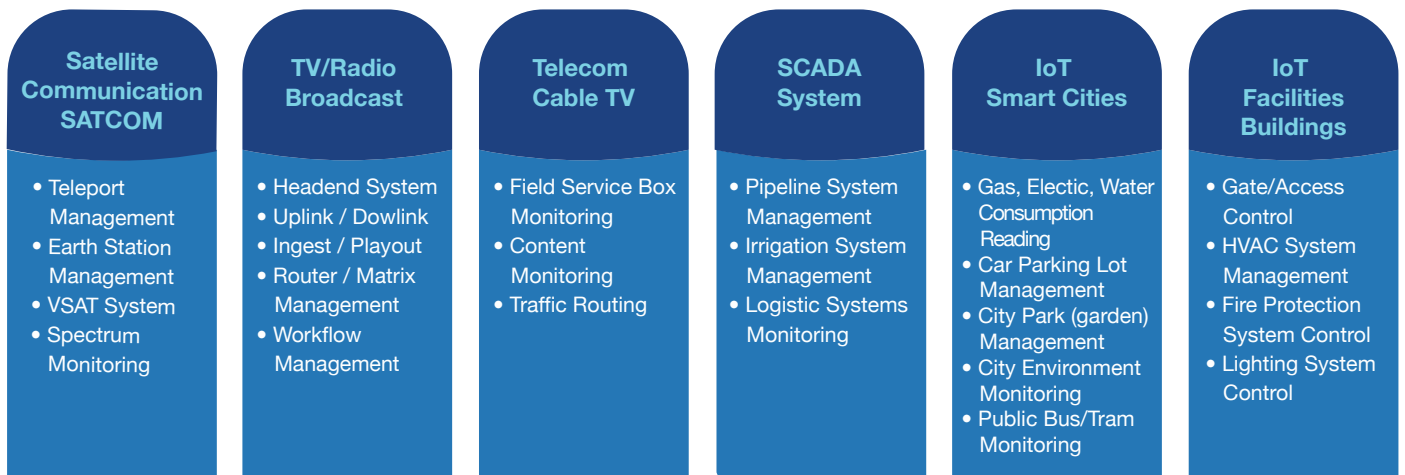
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Profen Visionic System Structure

Profen Visionic operates in a structured, multi-layer distributed client-server environment.When the system is connected via IP, remote monitoring and control can be performed anywhere in the world as shown in the system topology below. Stations or facilities are managed by a dedicated server and all monitoring and control tasks are handled by the master server hosted at the center. The system architecture supports an unlimited number of clients co-located or distributed.

In a satellite earth station or teleport there are several dish antennas directed at different satellites, RF systems such as HPA/SSPA, LNA/LNB, Up/Down Converters, Modulators, Demodulators, Modems and multiple sub-systems to support earth stations.
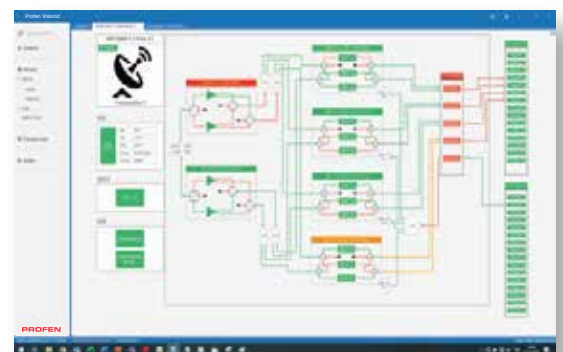
Typical Applications

Satellite Communication SATCOM	TV/Radio Broadcast	Telecom Cable TV	SCADA System	IoT Smart Cities	IoT Facilities Buildings
• Teleport Management • Earth Station Management • VSAT System • Spectrum Monitoring	• Headend System • Uplink / Dowlink • Ingest / Playout • Router / Matrix Management • Workflow Management	• Field Service Box Monitoring • Content Monitoring • Traffic Routing	• Pipeline System Management • Irrigation System Management • Logistic Systems Monitoring	• Gas, Electic, Water Consumption Reading • Car Parking Lot Management • City Park (garden) Management • City Environment Monitoring • Public Bus/Tram Monitoring	• Gate/Access Control • HVAC System Management • Fire Protection System Control • Lighting System Control

Earth Station & Teleport Management

In a satellite earth station or teleport there are several dish antennas directed at different satellites, RF systems such as HPA/SSPA, LNA/LNB, Up/Down Converters, Modulators, Demodulators, Modems and several sub-systems to support earth stations.

Station & Teleport Management Structure

## Typical requirement in an earth station or teleport:

- RF level signal routing in L-Band or X/C/Ku/DBS/Ka level in both uplink and downlink chain.
- Antenna selection, alignment and peaking to the target satellites.
- Protection redundancy switching for all active systems, HPA/SSPA, Converters, Modulators, Demodulators, Modems etc.
- Uplink power control.
- Monitoring and control of supporting infrastructure such as Dehydrators, UPS, Air conditioners, utilities, fire protection and security systems.

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A television headend is a master facility for receiving television signals for processing and distribution over a cable or satellite system. It primarily includes video compression (Encoder) and decompression (IRD) systems, multiplexing, routing and in some cases storage and play-out system. **Profen Visionic** can monitor and control all active devices and manage all redundancy and signal routing tasks.
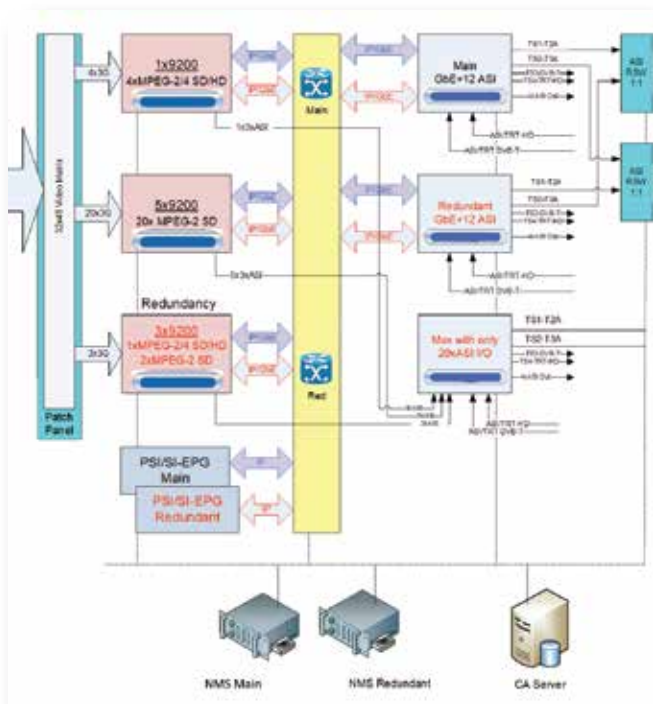
SAT TV/Cable TV Headend Management Structure

Key features of a Television Headend

- Managing redundancy of Encoders, IRDs, MUXs and any active or sub-systems,
- Routing Video and Audio signal over router or matrix switches,
- Managing "instant" and "scheduled" ingest and play-out video traffic between antennas, fiber optic or IP communication lines, studios and servers,
- Insertion of PSI/SI and information to the transport streams,
- Managing the assets and insertion of Conditional Access information into transport streams.

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An integrated approach: Profen Visionic provides an easy-to-use integrated platform for controlling and monitoring that includes fire and security systems, CCTV, access control, intercom, building alarms and lifts, as well as other emerging technologies and life safety systems. It provides 24/7 monitoring and control from a single and unified control point, allowing access to all areas on site. From a single and unified control point, events and sites can be monitored and controlled. System alerts and alarms can be identified quickly, clearly and effectively. The platform enables operators to work efficiently and productively with seamless operation across all devices.

Profen Visionic provides enhanced situational awareness, improved operational efficiency, and increased productivity. It is flexible and scalable to allow for expansion and increased functionality. All system status and information can be displayed in real time on all operator stations.
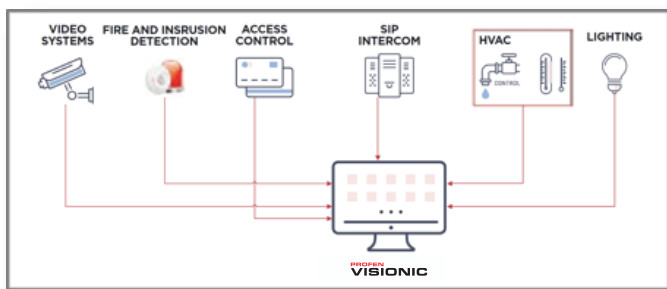
Building & Facility System Management Structure

Modules

- Access Control
- CCTV System
- Alarm System
- Fire Protection System
- Air Conditioning (heating, cooling, humidification, fresh air and dust) System
- Utility Systems (electricity, water, sewage etc.)

Capabilities

- Control of Building Systems and Services
- Graphic User Interface (GUI)
- Real Time Monitoring of Building Operation and Performance
- Trending and Logging of Building Operation and Performance
- Time Scheduling of Building Systems
- Fault Management and Alarming
- Control Application

How to Buy?

To view buying options and speak with Profen sales represensative, contact marketing@profen.com

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