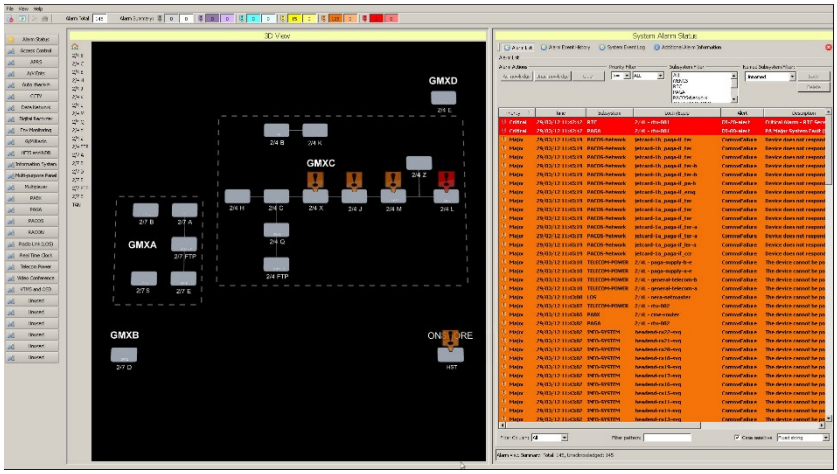
Case Study

Industry : Offshore Oil and Gas

Project : TMS – Telecoms Management System

Scope of Contract : Design, Supply, and Customer Support

iVENCS has been provided as the Telecoms Management System for a large Offshore Oil and Gas production complex.



The iVENCS TMS system monitors itself plus twenty nine telecoms subsystems across the platform complex. The system provides both local and remote onshore control and monitoring functionality, with both 'active' operator workstations and 'passive' staff information displays being used to show the status of all of the subsystems.

The dual redundant iVENCS TMS servers run on Linux Virtual Machines, which are themselves hosted on PC Server Arrays within the central IT Server resource for the complex. One dual redundant server is located offshore at the complex, while another redundant server is located at an onshore control centre. The offshore complex and onshore control centre are linked by an IP backbone network, but if this network fails then both the offshore and onshore parts of the system will be able to continue operating independently.

The multiple operator workstations run on standard IT resource Windows PCs which are located at the required control locations. In addition to the control workstations there are 'passive' status displays located around the complex. These status displays show the primary subsystem statuses and list the highest priority system alarms, but do not have any operator control functions and are for local information only.

The ability of iVENCS to run on either Linux or Windows operating systems enables this hybrid architecture to operate with seamless integration of the Linux servers and Windows workstations.

The twenty nine subsystems which are controlled or monitored by the iVENCS TMS system include the following:

- Servers, workstations, and IP Networks
- PA/GA and CCTV Systems
- TETRA and other Radio systems
- Helicopter Flight Information System
- Vessel Traffic Management System
- Oil Spill Detection System
- Automatic Personnel Registration System
- Fire & Gas Detection System
- Production Control System

ASL PA/VA Public Address and General Alarm network control systems have also been provided for the complex, together with a separate iVENCS PA/GA control front end GUI.

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