

## IT Assets Monitoring at Petrobras – Bacia de Campos Unit

### Description

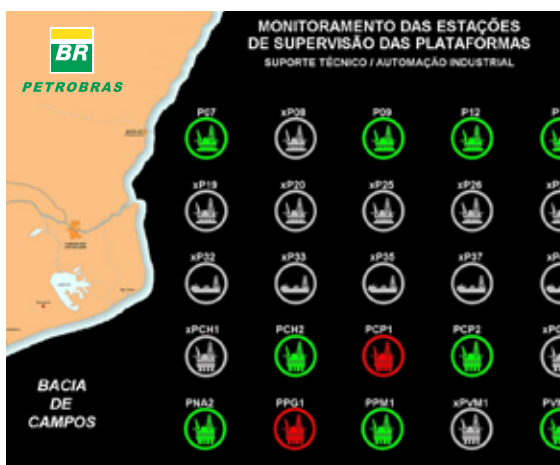
A monitoring solution was designed and developed for Petrobras, covering all IT infrastructure used for process automation systems of 32 oil extraction rigs located at Bacia de Campos.

The solution was based on XRatel Performance Suite and integrated with a PIMS System. XRatel remotely collects and stores information from servers and network equipment located in the oil rigs. For example:

- Network Health and other statistics about the network links.
- Computer Health and hardware status of automation servers (memory, CPU and disk utilization, video configuration).
- OS and Service Pack version, as long as some OS related applications installed, like antivirus.
- Supervision application and software versions and PIMS data collection status.



Data can be viewed using XRatel client or in dashboards developed at PIMS system, which communicates with XRatel through OPC protocol. A central dashboard shows an overview of all oil rigs, generating visual warnings in case of values out of the range (specified in XRatel database). This system will be used at CCO (Operational Control Center) of Bacia de Campos unit, allowing an effective monitoring of supervisory and control systems.



### Benefits

- Petrobras is now monitoring all IT assets used for automation in a unified control room
- Real Time Performance Management will provide costs reduction with maintenance and non-programmed production stops.
- The version control of supervisory applications will assist new features development and deploy.
- Software version and video resolution monitoring at remote supervisory stations will also help the deployment of new application enhancements from Operational Control Center.

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