



2nd Annual Conference on

IT & OT IN OIL & GAS

New Approaches and Best Practices

December 4-5, 2017, The Lalit, New Delhi

Organisers:



Sponsor:



TATA COMMUNICATIONS

IT & OT IN OIL & GAS

Mission

- The oil and gas industry is slowly making its way up the technology curve with an increasing number of oil and gas companies adopting advanced digital technologies to improve profitability.
- IT penetration has been growing with the deployment of key systems such as enterprise resource planning for streamlining business processes, smart metering for data collection, supervisory control and data acquisition (SCADA) and geographic information system for asset management, and customer relationship management (CRM) for improving the consumer interface.
- The industry is also paying increased attention to customisation and integration of IT and operational technology (OT). Today, oil and gas companies are seeking greater customisation from IT vendors for their unique business requirements. They are also aiming to achieve a balance between in-house IT development and complete outsourcing.
- Various IT and OT solutions are being deployed by oil and gas companies to improve their cost effectiveness, efficiency, productivity, reliability, sustainability and customer service. However, these technologies have been implemented and operated in silos. To realise their full potential, the utilities need to integrate operating technologies such as SCADA and sensors with IT systems that support metering, analytics, customer information systems, etc. This is expected to result in optimised business processes, better information for decision-making, more effective network and asset management, and improved customer service.
- The technology revolution is presenting the oil and gas industry with many new possibilities and opportunities. The combination of efficient operation and minimum business risks is not only enabling the collection of an unprecedented amount and range of data, but also its analysis and visualisation. The nature of OT systems is also changing with underlying technologies such as platforms, software, security and communications, becoming more like IT systems.
- However, much of the groundwork remains to be done. This includes baseline data validation, data integration, secure and efficient communication and metering. Further, the infrastructure associated with IT penetration such as data centres, advanced analytics for data mining and communications systems requires customisation. Nevertheless, the companies that have already adopted advanced IT systems early on are now driving the next-stage investments.
- **The mission of this conference is to highlight the most promising IT and OT solutions, examine their potential and relevance in the Indian oil and gas sector, and discuss the key issues and challenges in their deployment and convergence. The conference will also showcase noteworthy applications, innovative projects and best practices across all segments upstream, midstream and downstream.**

Target Audience

The conference is targeted at operators and IT managers in:

- ❖ E&P firms
- ❖ Pipeline operators (oil and gas)
- ❖ Oil refineries
- ❖ City gas distributors
- ❖ LNG terminals, etc.

The conference will also be useful for:

- ❖ Providers of operational technologies (SCADA, C&I, GIS)
- ❖ Providers of information technologies (ERP, CRM, cloud, etc.)
- ❖ System integrators
- ❖ Industry consultants
- ❖ IT hardware manufacturers
- ❖ Communication/Connectivity solution providers
- ❖ Data centre solution providers
- ❖ Solution providers for data analytics
- ❖ Big data, technology providers of workforce management
- ❖ Etc.

Previous Participants



AGENDA/STRUCTURE

KEY TRENDS AND OUTLOOK

- ❖ What are the key trends relating to the use of IT/OT in the Indian oil and gas sector?
- ❖ What are the most promising and relevant technologies?
- ❖ What are the key issues?
- ❖ What are the opportunities?

INDUSTRY NEEDS AND REQUIREMENTS

- ❖ How is the industry gearing up to cater to the specific requirements of the oil and gas sector?
- ❖ What are the new functionalities and technologies being offered by the industry?
- ❖ What are the key issues and challenges?

CUSTOMER PERSPECTIVE

- ❖ What are the new IT and OT requirements of the oil and gas sector in general?
- ❖ What are the biggest issues and challenges?
- ❖ What are the initiatives that oil and gas companies will be undertaking over the next few years?

CONVERGENCE OF IT AND OT

- ❖ What are the key drivers for the convergence of OT and IT systems in the oil and gas industry?
- ❖ What are the key enablers supporting this integration?
- ❖ What are the key issues and challenges?

REQUIREMENTS OF REFINERIES AND OTHER PROCESS-INTENSIVE SEGMENTS

- ❖ What are the new IT requirements of process-intensive segments?
- ❖ What are the new options and enhancements in key operating technologies?
- ❖ What are the possibilities created by IT/OT convergence?

SCADA EXPERIENCE AND CHALLENGES

- ❖ What are the benefits of deploying SCADA in oil and gas companies (pipeline, offshore platforms, etc.)?
- ❖ What are the infrastructural requirements for implementing the system?
- ❖ Is the industry fully exploiting and using the SCADA data? What has been the experience so far?
- ❖ What are the key issues and challenges?

INDUSTRIAL INTERNET OF THINGS

- ❖ What is the promise of industrial internet of things for the oil and gas industry?
- ❖ What are the key enabling technologies?
- ❖ What has been the experience globally? What are the key issues, challenges and risks?

BIG DATA ANALYTICS

- ❖ What are the key applications of big data analytics in the oil and gas industry?
- ❖ What specific benefits can the industry draw through big data analytics?
- ❖ What will be the key drivers for its adoption?

MOBILITY SOLUTIONS FOR REMOTE WORKFORCE MANAGEMENT

- ❖ What are the industry requirements for mobile/field workforce management?
- ❖ What are the technology options and best practices?
- ❖ What has been the experience? What are the key issues and challenges?

FOCUS ON TECHNOLOGY

OPEN PLATFORM COMMUNICATION UNIFIED ARCHITECTURE (OPC UA)

- ❖ What are the costs and benefits of OPC UA solutions? What are the key technology requirements?
- ❖ What has been the experience so far? What are the key issues and challenges?
- ❖ What has been the global experience?

CYBERSECURITY

- ❖ What are the key cybersecurity threats to the oil and gas industry?
- ❖ What is the expected level of preparedness in addressing the cybersecurity issue? What are the key challenges?
- ❖ What are the specific solutions on offer?

CLOUD COMPUTING

- ❖ What are the potential benefits of cloud computing for the oil and gas industry?
- ❖ What are the different IT models? What has been the experience so far?
- ❖ What are the key issues and challenges?

NEXT STEPS FOR ERP

- ❖ What are the emerging ERP requirements of the Indian oil and gas industry?
- ❖ What are the new enhancements offered by vendors?
- ❖ What are the key issues and challenges?

FOCUS ON COMMUNICATION TECHNOLOGIES

- ❖ What are the various communication issues faced by the oil and gas industry? How can companies choose the right communication technologies for IT and OT application?
- ❖ What are the new instruments and technologies offered by vendors (wireless handheld devices, etc.)?
- ❖ What are the key factors for creating a successful business case and selecting the right communication technology?

DIGITAL OIL FIELDS

- ❖ What are the key components and benefits of "digital oilfields"?
- ❖ What has been the experience so far? What are the key issues and challenges?
- ❖ What are the technology and other requirements?

PIPELINE INTEGRITY MANAGEMENT

- ❖ What are the key requirements for ensuring pipeline integrity?
- ❖ What are the various technology options? What has been the experience so far?
- ❖ What are the key issues and challenges?

RETAIL OUTLET AUTOMATION

- ❖ What are the various technology options for retail outlet automation (automatic tank gauging, attendant tagging solutions, outdoor payment terminals, etc.)?
- ❖ What has been the experience so far?
- ❖ What are the key issues and challenges?

CUSTOMER RELATIONSHIP MANAGEMENT

- ❖ What are some of the CRM initiatives taken by gas utilities and oil marketing companies?
- ❖ What are the best practices and enabling technologies?
- ❖ What are the key issues and challenges?

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