



# **Wipro Oil & Gas - Drilling & the Cloud ?**

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# Wipro - Drilling & the Cloud

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- Agenda
  - Wipro Drilling, Completions & Wells
    - Introduction
    - What brought us to this point
  - Real Time Drilling Test Labs
    - Why the need
    - Challenges
    - The landscape
  - The Cloud
    - Benefits
  - Questions
    - Where next

# Introduction - How we got to this discussion



- Leading Global Organisation with over 125,000 resources in 60+ countries
- 40+ O&G customers, including all of the Top 6 Majors
- Proven Global AD Project Delivery to over 400+ clients
- Proven Innovation capabilities with the required experience



- In June this year Wipro completed the acquisition of SAIC's O&G Business
- Domain capabilities across entire E&P Value Chain
- Strong Consulting and Systems Integration Capabilities
- Strong relationships with product vendors whilst remaining agnostic



We now have the opportunity to truly see how enterprise IT solutions can help in E&P .....

*"Can Cloud Based Solutions Benefit Real Time Drilling?"*

# “What Can The Cloud Bring To Drilling ?”

- Speed of Deployment
- Uptake of WITSML Standard
- Complex Architectures
- Multiple Vendors
- Multiple Service Organisations
- High cost of deployment
- High Investment to Initially Deploy

Drilling



- Low adoption in the O&G industry
- Security
- Data volumes
- Reputation as a Buzzword
- Confusion on where applicable
- Is it feasible
- What is it

Cloud



- Test Labs
- Real Time Drilling
- Data Management

Drilling on  
the cloud?



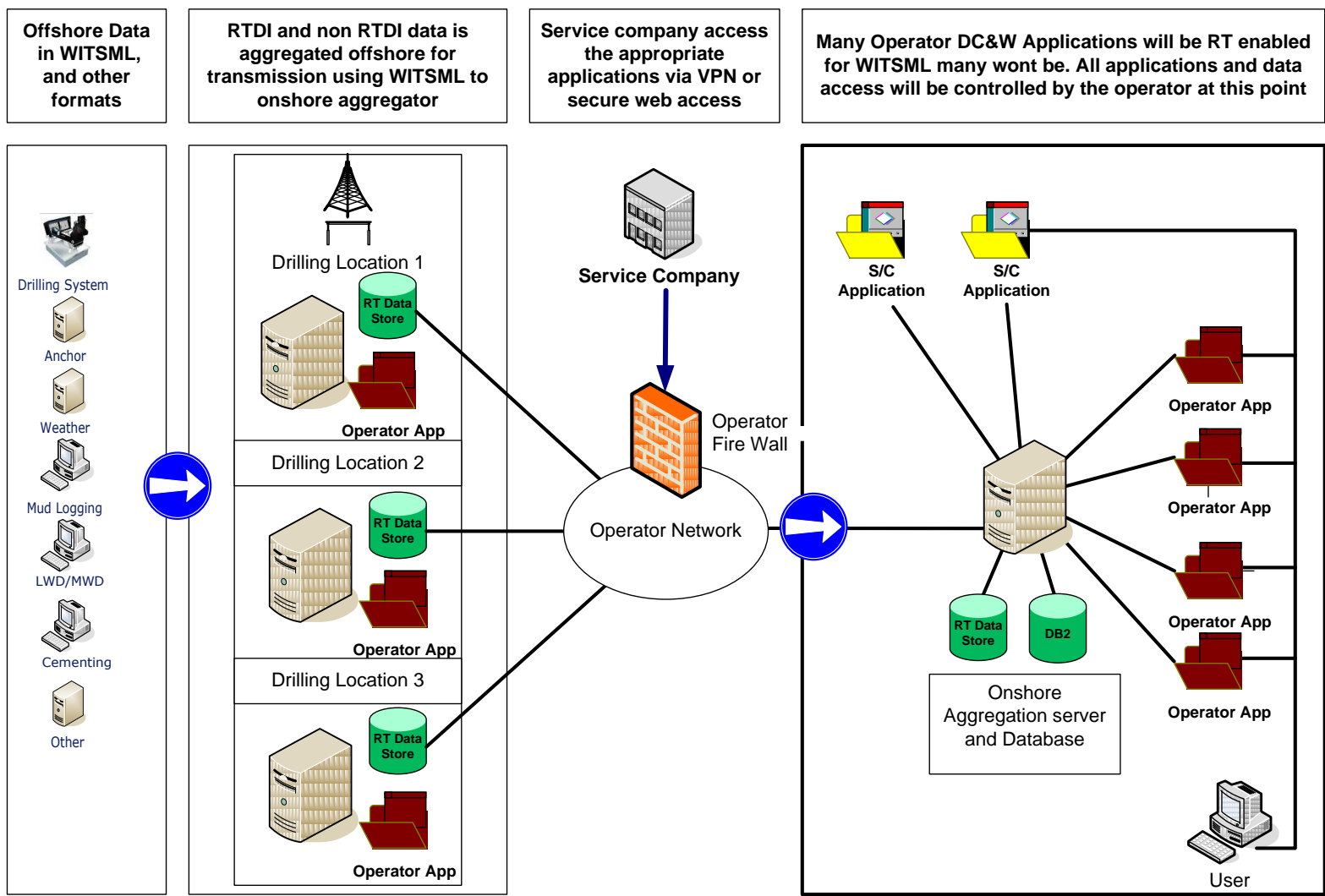
## Why are they needed

- Assurance pre drill
- WITSML exchange validation
- Trouble shooting
- Product enhancement
- Security assessment

## Challenges to address

- Time to deploy Application environment
- Cost of deployment
- Multiple data vendors
- Network limitations

# Real Time Drilling Test Labs – The Landscape



# Cloud Approach and Benefits

Nittin Mittal



# Cloud Based Real Time Drilling Test Labs



## - Lab On Demand - Benefits

### **Lab-on-Demand**

- Service offering for cloud deployments for non-production labs
- Optimization of customer's existing IT infrastructure investments
- Caters to dedicated / fixed demand for pre-production environments

### **Common Characteristics**

- Dynamic, automated, self-service provisioning of virtualized lab of Servers and shared storage pool. Ideal for pre-production environments (including Dev, Test, Training and Demo)
- Pre-configured software stacks that are used to create complex lab environments using “drag and drop”
- Cloud based pay per use model as \$/VM hour.

### **Benefits\*\***

- Faster provisioning of complex lab environments (80% reduction in provisioning time)
- Reduced costs of building (Capex) and managing complex Lab environments (Opex)
- Increased productivity of developers/testers through Automation and Collaboration
- Improved Quality of Testing through better simulation of production environment

# Cloud Based Real Time Drilling Test Labs



**WIPRO**  
Applying Thought

## - Benefits for Test and Dev on Cloud



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Drilling



- Data centres are a type of cloud
- It is more than a buzzword, but we are still planning the journey
- It is feasible but in small bites
- Still need to validate how widely it is applicable

Cloud



- Test Labs
- Real Time Drilling
- Data Management

Drilling on the cloud?



**Cloud is an enabler not the solution**

# Where Now?

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## Wipro

- Engage with operators and vendors to gauge appetite
- Understand the impact of integration with SCADA systems

## You

- Are you about to deploy test bed architecture ?
- Next time you need to validate WITSML transfer mechanisms how do you plan to approach?
- How are you currently planning to deploy Real Time Drilling Systems ?

# Questions

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