

Centralizing G&G applications in the datacenter

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About ISN Solutions

- Founded in 1999
- Enterprise class IT solutions
- Specialist in upstream oil and gas sector
- Work with top UK independents



From start-up to exploration and production

- Satellite and terrestrial drilling communications
- Oil and gas IT project management
- Solution design, implementation, support
- Infrastructure consultancy
- Remote office setups
- Outsourcing services





Todays Agenda

- IT challenges related to g&g apps
- Why remote access
- Which applications
- How to achieve remote access
- Key components
- How the solution can be used
- Use study
- Next steps...
- Summary





Problems IT faces with Geoscience applications

- Dispersion of data
- Exposure of sensitive data and intellectual property
- Expensive infrastructure deployed to distant locations
- System administration and difficulty in backup
- Increased travelling between sites





Why Remote Access

- Centralize data and infrastructure
- Uniformity in architecture
- Reduce storage costs
- Increase data security
- Reduce system administration
- Simplify backup and restore
- Provide mobility





Which Geoscience Applications

- Well known
 geoscience applications
- Used by the vast majority of Oil & Gas companies
- Fundamental to oil and gas companies
- All phases of project lifecycle
- Intellectual property of an oil and gas company



How to Achieve Remote Access

- Utilise Citrix XenDesktop
- Move graphics processing to the data centre
- Tune network and components, provide connectivity
- Stream virtual desktop to a thick / thin client





Key Components

- Citrix XenDesktop
- Hosts
- Receivers
- Citrix Infrastructure
- Branch Repeaters
- Windows 7

Receivers

WAN

optimization

ISN

Hosts

Citrix Infrastructure



Solution Requirements

User Experience Testing



Solution Requirements

Display and Bandwidth Levels

High performance setup Two Full HD monitors

Standard performance setup One Full HD monitor

Review only setup One monitor / Laptop



4-6 Mbps Latency < 100ms

2-4 Mbps Latency < 150ms

1-2 Mbps Latency < 200ms

Confronting the challenges

- Dispersion of data
- Exposure of sensitive data and intellectual property
- Expensive infrastructure in various locations
- System administration and difficulty in backup
- Increased travelling between sites





How this Solution Can Be Used

- Help Geographically dispersed geoscientists
- Review projects p2p or with management
- Work from different locations or at home
- Ability to work
 whilst travelling



Use Case



- Leading UK independent
- Geoscience data in Stavanger
- Geologists based in London
- Internet VPN connectivity
- Benefits:
 - Offloading data connections
 - Ability to share data
 - Geologists did not have to travel
- Will be used to provision second London office.



What will be the next steps



- See a live demo at ISN
- Workshop to understand your specific needs
- Proof of concept in your environment



Summary

- Designed for Geoscience applications
- Several benefits and cost savings
- Based on Citrix XenDesktop
- Can be used for many scenarios
- Key components and requirements
- Use study proves usability
- Next steps...





Thank you Any Questions?

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