Software as a Service: Cloud-based Simulation and Training

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Agenda

Traditional Method of OTS Delivery and Challenges

What is cloud-based Simulation & Training?

Cloud-based Simulation & Training Features and Benefits

Video Demonstration

Conclusions

Questions
Traditional Method of OTS Delivery & Challenges

• Delivered and set-up on site

• Multiple servers with jungle of wires

• Limited number of users at given point in time

• Maintenance requires software/hardware updates, financial investment, and time
How Challenging is it to Implement & Maintain your High Fidelity OTS?

Source: 2015 ARC OTS Best Practices Survey
What is Cloud-Based Simulation and Training?

Learning Management System backed by Simulation Models

Access anytime, anywhere

Alternative Options for Financial Investment

Access on demand with no headaches around IT or System Maintenance
Beyond Virtualization

VM Farm

Simulation & Training Online
Benefit: Advanced Learning Management System Integration

Users access the materials through the Learning Management System. Once the training begins, the trainees will be given a Cloud-deployed HMI.

A Cloud-deployed simulation model will be launched on-demand “behind the scenes.” The Instructor will have access to both HMI and Simulation Model.

Ensures the trainee is exposed to rigorous high-fidelity simulations, regardless of learning model requirements.
Benefit: Ease of Access

Only Requirement: Internet Connection

Staff from different locations can collaborate on training material and system operation

No limitation to how many users can be trained at a time

Corporate vs. Cloud
Benefit: Financial Investment Options

Capital Expenditure

- Purchase assets
  - Equipment
  - Property

Lump sum

Accounted for over number of years as asset depreciates

Operating Expenditure

- Ongoing costs to run a business
  - Wages
  - Utilities

- Paid throughout the year

- Accounted for each month/year
Benefit: Maintenance

- Elimination of wires, servers, and bulky hardware
- Software updates can be done in the background
- Reduces manual fixes and updates to the system
- Troubleshooting & Roll-backs
Conclusions

Training Simulators have traditionally added a great deal of value by increasing the competency of operators.

Operator Training Simulators can be complex in their set-up and sometimes challenging to maintain.

Today’s computing paradigms open up new channels to eliminate IT challenges.

Cloud-based simulation and training is a unique platform that can make OTS maintenance much easier AND increase collaboration within a company with easily accessible training materials.
THANK YOU!

QUESTIONS?