Engineering App virtualization

Cloud platform for engineers and EPC contractors

energy

wipro

Oil & Gas companies have a desktop-based engineering application ecosystem for capital projects delivery and facility operations. The desktop setup has limitations and poses several challenges, such as:

- Dedicated/private SmartPlant setup instead of common shared setup

- Average performance user experience

- High infrastructure, maintenance and service cost

- Difficulty in hosting concurrent users for multiple capital projects

- Inefficient security, storage, shared licenses

Virtualization helps to resolve desktop-based challenges.

Deliver high performance user experience both on local and Cloud setup

The solution

Wipro offers an end-to-end solution that includes infrastructure sizing, integrating systems, engineering data/models migration, security integration, and partner portal access enablement. The solution also covers:

- Cloud enablement and integration of Intergraph, 2D, 3D, EDW and ArcGIS, SharePoint online

- Multiple options of Cloud architecture with optimum sizing SharePoint on Azure, Active directory and License Servers in data center with NetScaler

- ArcGIS, SP tools hosted in local data center and AWS Cloud with Xen Desktops

- Access to EPCs using multi-factor security integration for sharing models/information

- Data/content migration from standalone systems to virtualized setup

- Maintenance and support services for the Cloud environment

Integrated Smart Plant, SharePoint and ArcGIS applications across AWS, Azure and on-premise system

Key benefits

30 to 40% cost savings on infrastructure

30 to 40% cost savings on license

20% savings on maintenance costs for the affected asset group

50% IT project cost savings with offshore-led project

Maintain single version of truth

Minimize multiple handover points

Avoid data loss/theft due to centralized data store

Platform to host 50 concurrent users for multiple capital projects

Key features

Standardized, integrated engineering tools and enforced standards to deliver the capital projects

Reduced infrastructure cost using optimized virtual machines with the ability to dynamically scale up/out

Virtualized remote access to company employees and EPC companies to develop the design on the companies' standard SmartPlant platform (SmartPlant P&ID, SmartPlant Electrical, SmartPlant Instrumentation, SmartPlant Foundation, SmartPlant 3D, SmartPlant ArcGIS)

Current content

Platform can host 50 concurrent users for multiple capital projects

Integrated ARCGIS and SharePoint for integrated platform delivery on private Cloud

Ability to extend the IT ecosystem to systems such as Tenement management system, planning and scheduling tools such as Primavera, and reporting and monitoring systems

Extension of the existing enterprise security framework to authenticate and authorize the usage of these systems for enterprise users and extended enterprise users (EPC's)

Timely delivery within the budget

Success stories

Client: Oil & Gas client JV based out of Australia focused on coal steam gas with more than 50+ concurrent users across multiple projects.

Business challenge:

- Multiple handover points with multiple versions of design created and ported to multiple technology tools

- High spends incurred on maintenance and service, licenses

- Data security threat

- Solution: We helped the client to migrate engineering IT ecosystem with Intergraph Smart Plant Suite, ESRI ArcGIS and SharePoint, from their existing distributed configuration to virtual engineering environment setup. We also enabled a collaborative platform to exchange the engineering information (e.g., models) with the partners. This was achieved by a cost-efficient delivery model which not only harnesses Wipro's engineering domain capability, but also leverages the niche capabilities from our digital partner ecosystem.

- We also provided cost-effective maintenance and support services.

Centralized and dedicated storage for each capital project to share and save files

Cost savings in infrastructure, maintenance, license, IT Prevent data loss

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