Engineering App
virtualization
Cloud platform for engineers and EPC contractors
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.

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

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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