About SmartPlant® Foundation

SmartPlant® Foundation is the leading standards-based Capital Project Lifecycle Management (cPLM) solution for the energy and resources industries. It has capabilities that span the entire project life cycle, ranging from simple document management through to configuration management in highly regulated industries. Its forte is the ability to manage massively interrelated, interdependent, and rapidly evolving data that is the backbone of SmartPlant Enterprise, Hexagon PPM's multi-discipline integrated engineering suite, as well as being the platform for integrated applications such as SmartPlant Construction and SmartPlant Enterprise for Owner Operators.

About Intergraph Smart® Cloud

Smart Cloud is a tailored computing environment offering a self-contained ecosystem of Hexagon PPM applications, customers' third-party solutions, and in-house applications. Customers can access their project data at any time, on multiple devices, from any location. Migrating applications to Smart Cloud enables consistency of project tools in front-end engineering design (FEED), detail design, construction, and operations to better meet schedule, reduce organization migration costs, ensure higher quality and integrity of data, and ease the handover process.

The Project

Hexagon PPM administered a series of tests to evaluate the performance of Smart 3D on Smart Cloud. The aim of the tests was to establish the viability of the cloud solution for use on very large projects. Further complexity was added to this test by simulating users from multiple geographical regions.

There were two vital questions about Smart Cloud that needed to be answered:

1. Is Smart Cloud capable?
   Can it handle the load?

2. Is Smart Cloud scalable?
   How will it perform with one user vs. multiple users?
In order to determine if there would be a noticeable difference in end-user experience based on the number of users, the Hexagon PPM team designed the tests to evaluate how Smart Cloud would perform with a high number of concurrent users (150) over an extended period of time.

The test was executed on a large data set in which three pre-defined scripts were devised to replicate typical usage of the solution: Admin, Read/Write, and Read-only. These scripts were run concurrently for the duration of the test.

The Results

The test results showed comprehensively that SmartPlant Foundation performs consistently in the cloud for one user or 150 users, no matter their level of access to the program. The capability and scalability of Smart Cloud were both confirmed.

What Does This Mean for Your Next Project?

These performance tests demonstrate that Smart Foundation customers working on Smart Cloud experience a scalable, consistent service as the amount of data and number of concurrent users increases, all while delivering a user experience equivalent to an on-premise solution. In fact, other companies currently testing Smart Cloud report that the platform performs up to 20 percent faster than their existing internal IT infrastructure.

SMART CLOUD BENEFITS:

For Project Owners

Smart Cloud helps project owners meet the challenges of quality, consistency, and maintaining the high value of data-centric systems for large and small projects while providing an environment that can transition from project to operations faster and more effectively.

For Engineering Companies

Smart Cloud helps engineering companies scale teams more efficiently and quickly, outlay less initial capital, provide earlier visibility into partner efforts, and manage quality level regardless of where the team execution is occurring.

It can also offer potential new business opportunities. These range from strategic alignment with clients to providing a consistent infrastructure for all offices to train, work, and deliver to a known level of quality. Align internal work processes and software positions and maintain knowledge level across all office locations.

About Hexagon PPM

Hexagon PPM is the world’s leading provider of enterprise engineering design software and project control solutions. By transforming unstructured information into a smart digital asset, our clients are empowered to visualize, build, and manage structures and facilities of all complexities, ensuring safe and efficient operation throughout the entire life cycle.

Hexagon PPM is part of Hexagon (Nasdaq Stockholm: HEXA B; hexagon.com), a leading global provider of information technology solutions that drive productivity and quality across geospatial and industrial landscapes.

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