ABOUT SMARTPLANT® REVIEW

CLOUD PERFORMANCE

About SmartPlant® Review

SmartPlant® Review is a problem-solving 3D visualization tool, providing a complete visualization environment for interactively reviewing and analyzing large, complex 3D models of process and power plants. SmartPlant Review is the only viewer in the world focused on plant design and operations but still able to meet all of the requirements for a variety of users – design, engineering, construction, operations, and maintenance.

About Intergraph Smart® Cloud

Smart Cloud is a tailored computing environment offering a self-contained ecosystem of Intergraph 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 Test

Intergraph administered a series of tests to evaluate the performance of SmartPlant Review 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 Intergraph 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 performed using large data set in which pre-defined scripts were devised to replicate typical usage of SmartPlant Review. A custom fly-through was executed, utilizing the full model, showing wide-angle views as well zooming in to show detailed elements.

**The Results**

At the completion of testing, it was confirmed that the performance of SmartPlant Review on Smart Cloud was on par at maximum capacity (150 users) compared to a single user. The results were outstanding, given that SmartPlant Review is a graphics-intensive program.

**What Does This Mean for Your Next Project?**

These performance tests demonstrate that SmartPlant Review customers working on Smart Cloud experience a scalable, consistent service as data models and concurrent users increase, 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.

**INTERGRAPH 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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