



**SOLUTION:**

SmartPlant® Cloud is a tailored computing environment offering a self-contained ecosystem of SmartPlant Enterprise, your third-party solutions, and in-house applications supported by dedicated technical and business operations services uniquely tailored to our industry.

**BENEFITS:**

Having your projects in the cloud offers you many advantages over traditional implementations. SmartPlant Cloud consolidates your plant data into a single location that is secure and available anytime – from anywhere – from practically any device.

Intergraph® SmartPlant Cloud can help you meet the challenges of quality, consistency, and maintaining the high value of data-centric systems for both large and small projects while providing an environment that can transition from project to operations faster and much more effectively by providing:

- Seamless handover from FEED to detail design.
- Early access to common project plan, design data, and equipment data.
- More efficient procurement and economies of scale.
- Seamless handover to commissioning, startup, and handover.

**SMARTPLANT® CLOUD  
BENEFITS FOR OWNER OPERATORS  
INDUSTRY PRESSURES**

We understand today's challenges and how they affect owner operators:

- Energy demands are growing at an incredible pace. Analysts expect investment spend to reach US\$38 trillion by 2035 to meet this demand.
- Project sizes require more than just a couple of partners.
- Schedules are under more pressure.
- Coordination and logistics are more challenging. Projects are geographically more diverse.

To meet these growing energy needs, both design and operations must improve. For large projects, partners are expected to execute on schedule, have consistent deliverables, and maintain high quality levels. Add to this the fact that design systems can provide a higher level of intelligence for feeding procurement, construction, and plant systems. Partners must be more in-sync to meet project demands. Studies have shown that at least 40 percent of projects miss the planned schedule. Meeting project demands while maintaining strict safety requirements is a big challenge with the current methodology. Industry trends will only magnify these limitations.

For smaller projects, the impact of inconsistent or dispersed data is affecting the bottom line. For operating plants, customers have shared that they typically plan for 8 percent downtime every year. However, when they went back and looked at what really occurred, the downtime was closer to 16 percent – double the time that was planned. There are many factors that can impact a project, but a large portion of downtime is attributed to looking for information.

For operations, having a consolidated environment provides the ability to catch design mistakes earlier. This helps to eliminate construction rework and lower material costs. Consolidation also provides an opportunity for economies of scale for material procurement. By using SmartPlant Cloud, the project tools remain consistent in FEED, detail design, and operations. This consistency offers opportunities to better meet schedule, reduce organization migration costs, and ease the handover process from project to operations. It also offers higher quality and integrity of data from phase to phase.

## SMARTPLANT CLOUD BENEFITS

### Lowered Risk

You are already specifying data-centric applications like SmartPlant P&ID, SmartPlant Instrumentation, and Intergraph Smart™ 3D, because intelligent data has tremendous value in standing-up and populating your operations systems faster. By having your project or plant in SmartPlant Cloud, tool consistency between each phase is maintained. This maintains the data integrity and allows quicker transitions between phases, helping preserve schedule. A single consistent source with high data integrity provides the opportunity to deliver a true as-built to operations, eliminating the need to survey the physical asset.

### Enhanced Operations

During operations, SmartPlant Cloud offers:

- Lower risk to startup schedules.
- Better managed transition from project to operations.
- As-built data and documentation maintenance.
- Minimized cost of migrations between organizations.
- Opportunity for design reuse.
- Improvements on agreed safety and production targets.

## MORE THAN SOFTWARE AS A SERVICE (SAAS)

SmartPlant Cloud is more than just another cloud offering. The service is tailored to the architecture of Intergraph Process, Power & Marine (PP&M) products. With data centers on multiple continents, our goal is to provide the optimal performance and reliability you expect and deserve.

Our SmartPlant Cloud Hypercare program places a professional on-site at project startup to help teams:

- Become more familiar with working in a cloud environment.
- Identify and share best practices.
- Eliminate any issues early in the process.

Intergraph is your partner to make your cloud implementation successful.

Accessibility has never been easier. SmartPlant Cloud is accessible from almost any device (desktop, mobile device, or phone) without having to change your IT infrastructure. Now project participants can use any device brand and operating system and still gather the data and documents that are critical to your project success.

SmartPlant Cloud provides unparalleled support. If you need help, regardless of the type of issue – network, hardware, or software – the SmartPlant Cloud team is available 24/7 to solve your question or notify the proper support department for quick resolution. Just one call solves your team's issue!

## SECURE COMPUTING

SmartPlant Cloud meets the toughest security and disaster recovery standards. Internal departments can maintain their control while providing others with viewing access. SmartPlant Cloud also offers the ability to populate other systems with critical information that was once only available to that department or its personnel.

SmartPlant Cloud protects valuable intellectual property. Any information, from partner or owner, can be segregated from access at many levels. This ensures that all intellectual property stays secure to only those who should have access.

SmartPlant Cloud is **ISO 27001-certified**. This is the highest level of cloud security and involves formal auditing and certification by independent resources. Information security is under explicit management control that mandates specific requirements, including physical storage and access; virtual access and reporting; and compliance with security standards, laws, and regulations.

SmartPlant Cloud offers full off-site disaster recovery back-up as part of the service. The SmartPlant Cloud team also offers processes and metrics on what to expect if the disaster backup needs to be instantiated. Your data is safe, secure, and can be recalled on a predictable and shared schedule.

## ABOUT INTERGRAPH

Intergraph helps the world work smarter. The company's software and solutions improve the lives of millions of people through better facilities, safer communities, and more reliable operations.

Intergraph Process, Power & Marine (PP&M) is the world's leading provider of enterprise engineering software enabling smarter design and operation of plants, ships, and offshore facilities. Intergraph Security, Government & Infrastructure (SG&I) is the leader in smart solutions for emergency

response, utilities, transportation, and other global challenges. For more information, visit [www.intergraph.com](http://www.intergraph.com).

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