



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:

You already use data-centric applications like SmartPlant P&ID, SmartPlant Instrumentation, and Intergraph Smart™ 3D, because intelligent data has tremendous value in your work processes and for populating both your project's and your client's operational systems.

Having projects in the cloud offers you many advantages over traditional implementations. Intergraph® SmartPlant Cloud can take your expertise to the next level by enabling your company to leverage your data-centric knowledge to benefit the client well beyond project end.

SmartPlant Cloud can increase consistency, enable you to scale your team more efficiently and quickly, outlay less initial capital, provide earlier visibility into partner efforts that affect your work, and help you manage your team's quality level regardless of where the team execution is occurring.

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

SMARTPLANT® CLOUD BENEFITS FOR EPCs

INDUSTRY PRESSURES

We understand today's challenges and how they affect engineering, procurement, and construction firms:

- Energy demands are growing at an incredible pace. Analysts expect investment spend to reach US\$38 trillion by 2035.
- Project sizes require multiple partners.
- Schedules are tighter.
- Projects are in more geographically challenging locations.

Information Access

The pressure on EPCs to execute on schedule, have consistent deliverables with other partners, and maintain high levels of quality has never been greater. Add to this the fact that data-centric engineering systems provide a higher level of intelligence for populating procurement, construction, and plant systems. Managing and synchronizing documents and data across partners is a larger and more important task than ever.

The evidence is clear. Studies have shown that at least 40 percent of projects miss the planned schedule. Delays can be caused by many factors, but information access always tends to be one of the top reasons for delays.

If you are the Project Management Consultancy (PMC), your role is to make sure that all information meets requirements. Usually this means you have the task of making all information meet the requirements after final delivery from the other contractors. The potential for duplication of effort in cleaning up project materials puts pressure on resources and schedule. SmartPlant Cloud can provide earlier visibility into partners' deliverables, offering the opportunity to fix any issues earlier in the process, reducing rework and saving schedule.

SOLUTION STRATEGIES

Increased Quality, Minimized Downtime

The impact of inconsistent or dispersed data affects plant operations' bottom line. Operators typically plan for 8 percent downtime every year. However, when they analyzed their records, the downtime was actually 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 across multiple systems. SmartPlant Cloud helps your clients consolidate their plant data into a single location that is secure and available anytime from anywhere.

Some owners are now looking for a main information contractor (MIC) to manage plant data well after the project is finished. This MIC would work closely with the owner to define and manage plant information to make sure it meets a higher level of quality, offers access to many departments, and maintains security and safety standards. The MIC would have direct visibility into the complete project data and would be responsible for maintaining that data.

Focus on Business Value

SmartPlant Cloud is also an opportunity to offload commodity IT functions that do not add to your bottom line. Your IT department can refocus and work more on business value-add enhancements instead of monitoring, upgrading, and swapping hardware, switch gear, and network components. SmartPlant Cloud also offers the ability to leverage local knowledge across multiple offices.

SECURE COMPUTING

We understand that you have tools, specialized knowledge, and licensed technology that needs protection. SmartPlant Cloud protects all of your valuable intellectual property. Any information, from partner or owner, can be segregated from access at many different levels. This ensures that all intellectual property stays secure to only those who should have access. Internal departments still maintain control of their data while providing others with viewing access or the ability to populate other systems with the critical information they need.

SmartPlant Cloud is **ISO 27001-certified**. This is the highest level of cloud security and involves formal auditing and certification by independent resources. This certification requires that information security is under explicit management control that mandates specific requirements, including:

- Physical.
- Human resources.
- Communications.
- Business continuity.
- Intrusion reactions.
- Compliance to security policies, standards, laws, and regulations.

SmartPlant Cloud offers full off-site disaster recovery back-up as part of the service. A full duplication of your estate ensures that your project is protected against a data center going offline. Your data is safe, secure, and can be recalled on a predictable and shared schedule.

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 located on multiple continents, our goal is to provide the optimal performance and reliability you expect.

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; and 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 achieving 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!

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.

Intergraph is part of Hexagon (Nordic exchange: HEXA B; www.hexagon.com), a leading global provider of design, measurement, and visualization technologies that enable customers to design, measure, and position objects, and process and present data.

