



SMARTPLANT® ENTERPRISE CORE SOLUTION

The Intergraph® SmartPlant® Enterprise (SPE) Core solution includes key work processes that are relevant throughout the entire project life cycle. To help you quickly respond to different project requirements and create/manage the engineering design basis, this solution provides common core work processes and is a prerequisite for the SPE Project Execution solution.

Several SPE Core solution business packages are currently available.

ENGINEERING DATA BROWSING

The SPE Core solution provides rapid access to key information within the engineering design basis via multiple search mechanisms and navigation paths. This reduces the time needed to gather necessary information and ensures all relevant information is readily available to facilitate quicker and better decision-making. This can be used, for example, to enable contractors' customers, e.g. the plant owner, to review data and documentation via web access without the burden of traditional paper copies transmittal.

ENGINEERING & DESIGN BASIS

Building the dynamic design basis in a multi-discipline, concurrent engineering environment is a critical, demanding activity. SPE Core provides tight integration with Intergraph's extensive portfolio of well-proven SPE design tools to support all sizes of engineering projects.

SPE Core is based on SmartPlant Foundation and provides the common information hub to support data exchange between SmartPlant design tools. SmartPlant Foundation provides the workflow engine to drive the preconfigured work processes. SmartPlant Foundation also serves as a flexible information management repository.

SPE Core gains its strength from integration with well-proven SPE applications such as Smart 3D, SmartPlant P&ID, SmartPlant Instrumentation, SmartPlant Electrical, and all the other SmartPlant applications (available separately).

PLANT & WORK BREAKDOWN STRUCTURES

Establishing the plant breakdown structure is a fundamental activity required to manage the design basis of any plant/project. Managing the work breakdown structure by definition of work packages is a critical part of managing activities such as engineering, construction, and procurement both in greenfield and brownfield projects.

This business package facilitates the bulk loading and navigation of data via the plant breakdown structure (area, system, discipline, etc.) and work breakdown structure by work packages.

TAG MANAGEMENT

The consistent and accurate allocation of tag numbers in accordance with the project-related or corporate standard engineering numbering system is essential for an effective execution of project engineering. Being able to quickly respond to the different ENS requirements given by the different projects is a critical success factor.

This business package supports the centralized allocation of tag numbers in SmartPlant Foundation. It allows the consistent control and management of tag items in the integrated tools from a centralized system. You may choose to create some tag types centrally and others decentralized in the tools according to the optimized work process you wish to deploy.

SPE Core preconfiguration enables fast-track implementation and startup with a templated engineering numbering system, maintenance of tag data, and exchange of tag details with design tools.

DOCUMENT & TRANSMITTAL MANAGEMENT

These business packages ensure the effective and consistent management of documents with auditable traceability and are essential to manage the vast numbers of documents that are created and revised during the execution of a complex plant engineering project. These business packages enable you to assemble a data- and document-driven engineering design basis. During engineering project execution, the allocation of document numbers and workflows to review and distribute necessary documentation to relevant stakeholders are critical processes. These business packages address typical project needs for document management and transmittals. The document management business package features a comprehensive set of work processes, including:

- Central allocation of document numbers
- Capture of document metadata
- File archiving
- Distribution and review
- Subscription
- Check-in and check-out
- Online approval

To facilitate flexible retrieval, the business package offers full document revision history. Documents can be linked to the plant or work breakdown structures, tags, referenced documents, contracts, disciplines, and more. Where an Enterprise Content Management (ECM) system such as SAP® DMS, Documentum, or Microsoft® SharePoint® is deployed in an organization, Intergraph's business package can be integrated with these systems. The transmittal business package offers preconfigured processes for managing incoming, outgoing, and internal transmittals, including definition of standard distribution matrices to ensure consistent distribution.

MODEL, ASSET & MANUFACTURER

The SPE Core solution provides the capability to manage standard manufactured materials as identified by a manufacturer's model/type reference and individual serialized equipment (assets). This data is necessary for installation, commissioning, and plant handover and can serve as the basis for effective data and documentation handover to the owner of the plant. It therefore provides a competitive advantage allowing contractors to provide owners better capabilities for downstream processes like facilitating normalization of plant materials and documentation and supporting modern maintenance build processes.

DATA LOADING

Simple, bulk loading of data into SPE is provided by SPE Core. A more comprehensive solution is also available with Intergraph's SPE Validation, Transformation, and Loading solution.

CONCEPTUAL ENGINEERING

The commercial and technical evaluation of alternative plant layouts is an essential part of the conceptual engineering process for both greenfield and brownfield projects.

The Conceptual Engineering business package exploits SmartPlant Layout (available separately) for the conceptual layout of plants. You can quickly generate and compare various plant layout concepts, then export the results of any layout to estimating tools to facilitate cost comparison.

ABOUT INTERGRAPH

Intergraph is the leading global provider of engineering and geospatial software that enables customers to visualize complex data. Businesses and governments in more than 60 countries rely on Intergraph's industry-specific software to organize vast amounts of data to make processes and infrastructure better, safer, and smarter. The company's software and services empower customers to build and operate more efficient plants and ships, create intelligent maps, and protect critical infrastructure and millions of people around the world.

Intergraph operates through two divisions: Process, Power & Marine (PP&M) and Security, Government & Infrastructure (SG&I). Intergraph PP&M provides enterprise engineering software for the design, construction, operation, and data management of plants, ships, and offshore facilities.

Intergraph SG&I provides geospatially powered solutions to the public safety and security, defense and intelligence, government, transportation, photogrammetry, and utilities and communications industries. Intergraph Government Solutions (IGS) is an independent subsidiary for SG&I's U.S. federal and classified business.

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