

SmartPlant® Enterprise Power Solution (KKS-Enabled)



INCREASE PRODUCTIVITY, ACCELERATE PROJECTS, AND FACILITATE COMPLIANCE FOR EPCS AND UTILITIES

The new Intergraph® SmartPlant® Enterprise Power Solution (KKS-Enabled) offers a pre-configured software suite for power plant builders and owner operators to optimize the design and construction, safe and reliable operation, and life cycle management of the engineering design basis for handover and regulatory compliance.

SmartPlant Enterprise Power Solution (KKS-Enabled) builds on SmartPlant Enterprise's proven and widely used solutions suite with features tailored to the needs of the power industry, such as out-of-the-box KKS (Kraftwerk Kennzeichen System) integration and specification-driven integration between SmartPlant Reference Data and SmartPlant P&ID. Benefit from accelerated implementation due to preconfigured KKS integration logic, as well as early and accurate materials estimation capabilities.

KKS libraries are recognized as the industry standard for consistent and systematic classification of power plants. Intergraph is the first company to receive permission from VGB PowerTech e.V., the industry association that issues guidelines for the development, construction, and operation of power plants, to preconfigure its solutions with KKS standards. By delivering predefined KKS content for the SmartPlant Enterprise Power Solution, Intergraph enables you to more easily benefit from the software's existing capabilities and expedites the engineering process for those of you who adhere to these specifications.

SmartPlant Enterprise Power Solution (KKS-Enabled) offers preconfigured KKS integration and data management capabilities for EPCs and O/Os who perform engineering and design projects for power generation or distribution projects.

INNOVATIVE SOLUTION

After extensive analysis of the power plant construction market, existing products, vendors, and input from our customers, Intergraph determined an integrated solution with KKS logic and drawing generation rules for SmartPlant 3D was the best choice. The dramatic success and widespread industry adoption of SmartPlant 3D design and data management solutions makes SmartPlant Enterprise Power Solution (KKS-Enabled) the next logical step in streamlining enterprise engineering information throughout the concept, design, construction, operations,

BENEFITS

- Establish best industry practices
- Repeat success stories
- Leverage lessons learned
- Reduce implementation risk
- Shorten implementations
- Accelerate ROI
- Reduce implementation efforts and costs
- Improve inter-company collaboration

CAPABILITIES

- Power industry practice plant breakdown structure for SmartPlant Enterprise
- Integration schema extensions tailor-made for use with KKS
- Required KKS tool mappings for SmartPlant 3D, SmartPlant P&ID, and SmartPlant Electrical
- KKS-compliant naming rules for SmartPlant 3D
- Integration between SmartPlant Reference Data and SmartPlant P&ID

and maintenance life cycle of power plants. Take advantage of SmartPlant Enterprise Power Solution (KKS-Enabled) to:

- Gain a robust, value-adding, and accelerating starting point for SmartPlant Enterprise implementations
- Establish a commercial de facto standard over time that only requires a few company-specific adaptations
- Facilitate efficient collaboration between:
 - Owners
 - EPCs
 - Nuclear reactor suppliers
 - Other suppliers
 - Regulatory agencies
- Collaborate with global industry leaders to speed up workflows

UNIQUE CONTENT AND KKS-ENABLING CAPABILITIES

- SmartPlant P&ID 2007 SP5 HF 2
 - SmartPlant Reference Data – SmartPlant P&ID interface properties
- SmartPlant 3D 2009
 - KKS properties and naming rules

UNIQUE INTEGRATION CAPABILITIES

- KKS integration via SmartPlant Foundation 2008
 - Power industry-based plant breakdown structure (PBS) in SmartPlant Foundation

- Four-level hierarchy
 - PBS mapping for SmartPlant 3D in addition to SmartPlant Engineering Manager (SmartPlant P&ID, SmartPlant Electrical)
 - KKS-based schema extensions (SmartPlant Foundation)
- Integration via separate KKS-specific properties
 - SmartPlant P&ID, SmartPlant Electrical, and SmartPlant 3D tool mapping extended to KKS properties
- Reference data integration (SmartPlant Reference Data 2007 – SmartPlant P&ID 2007)
 - SmartPlant P&ID internal catalog for specifications and components managed by SmartPlant Reference Data
 - Component and specification data management

PREREQUISITES

SmartPlant Enterprise Power Solution (KKS-Enabled) is a powerful toolset built on the power of the SmartPlant Enterprise. The following are required to use the solution:

- KKS libraries for SmartPlant P&ID and SmartPlant Electrical
- SmartPlant Foundation
- A combination of at least two of the following applications: SmartPlant P&ID, SmartPlant Electrical, and/or SmartPlant3D.

SmartPlant Reference Data is highly recommended, but not required.

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 into understandable visual representations and actionable intelligence. Intergraph'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, and operation of plants, ships, and offshore facilities. Intergraph SG&I provides geospatially powered solutions to the defense and intelligence, public safety and security, government, transportation, photogrammetry, utilities, and communications industries.

For more information, visit www.intergraph.com.

