



## INTERGRAPH SMART® REFERENCE DATA

# EFFICIENTLY MANAGE YOUR PROJECT BASELINE

Intergraph Smart® Reference Data provides materials libraries at the corporate and project levels and enables better standardization and change management. Smart Reference Data is the software tool for maintaining catalog and pipe specifications for Intergraph Smart 3D, Intergraph Smart P&ID, SmartPlant® Isometrics, Intergraph Smart Materials, and other design tools.

Enjoy access to a central database located at a single location from any other location around the world. Enable global workshare of reference data along with centralized control. Take advantage of integrated change management and exception handling for an optimized workflow. Smart Reference Data is also available on Intergraph Smart Cloud, making it very easy to centralize catalog management in the Cloud.

### Interfaces

Interfaces enable data to be fed into design systems with relevant, standardized project data, eliminating duplicated effort. Several interfaces are included with Smart Reference Data, such as: Smart 3D (Export comprehensive catalog data to the Smart 3D project database), SmartPlant Isometrics, Smart P&ID, Intergraph Smart Instrumentation, Intergraph Smart Electrical, CADWorx®, PDS® (Export comprehensive data to the PDS project database), PDMS (Export comprehensive data to the Aveva PDMS project database), SAP® R/3 (Export standardized data to the SAP R/3 Material Management Module), Content vendor via XML (Load geometric and dimensional data), and Web API (Available for various integrations and automation).

### Standardization

Smart Reference Data enables corporate and project-specific material data standardization. The preconfigured solution helps establish an effective material database. Organize and reuse data according to international (i.e., ASME, ANSI, DIN, EN) or corporate standards.

The standardization of material classifications dramatically reduces engineering cost, especially in a global environment. All projects can use the same codes and simply map to client codes if required.

The solution helps you ensure the same code or description applies across the business. This means everyone on the team can communicate in the same materials “language” to save time and money.

### User-definable

Take advantage of a user-definable, rule-based catalog and specification management tool at both the enterprise and project levels. User-definable data and intelligence can reflect discipline and task specifics, such as electrical and instrumentation.

### Data Accuracy

Smart Reference Data provides a single point of data entry for materials and specifications. This minimizes the potential for inconsistent data across different teams and systems.

With Smart Reference Data, material definition is intelligent, standardized, reusable, and repeatable. If your current system descriptions are not dynamic, duplicates are possible. This represents a major materials risk to your organization. Reduce the risk of inaccurate data with Smart Reference Data.



## Integration

Tight integration with design and procurement systems results in efficient change management, which is critical for successful project execution. The integration performs the relevant project setup work is user-friendly. The Smart Reference Data environment uses this solution as the single point of data management.

## Benefits

Choose Smart Reference Data, the proven and professional solution for comprehensive materials management, to:

- Standardize materials use by different users
- Deploy company best practices
- Benefit from rule-based intelligence of reference data
- Implement organizational specification control
- Eliminate “recreating the wheel”

## STANDARD DATABASE FOR INTERGRAPH SMART REFERENCE DATA

For faster and easier implementation, Hexagon PPM has created the out-of-the box catalog Standard Database for Intergraph Smart Reference Data, which offers:

- U.S. piping and U.S. structural data (ANSI, ASME, ASTM, MSS)
- European piping standards (DIN, EN)
- Japanese piping standards (JPI, JIS)
- Chinese piping standards (GB)
- Piping specifications (PIP)
- Sample Power, EN, JIS piping specifications
- Ducting parts and specifications.
- Cable tray parts and specifications
- Equipment and electrical cables
- Hangers and Supports Parts and Assemblies (Anvil, BergenPower)
- Structural cross sections

- Standardized rules and reference data for different types of hangers and supports. (Data-Driven Support Parts and Assemblies Library)

Along with the data, configuration data for interfaces to Smart 3D, PDS, Smart Isometrics, and CADWorx are available out of the box.

## Benefits

- Shorten implementation time
- Reduce cost of implementation
- Standardize content linked from design through supply chain
- Reuse catalogs and simply map to client needs
- Minimize client resource costs since data is maintained in the Standard Database
- Reduce material costs by correctly identifying materials for accurate procurement
- Standardize coding across projects
- Receive updated content

## Manage Smart 3D Piping Specifications

- Maximize efficiency
- Reduce development time of specification content
- Take advantage of revision control, change management, and reporting
- Enable permission-based database access instead of locked spreadsheets
- Minimize labor hours in specification development and management
- Maximize productivity with graphical user interface featuring .NET instead of spreadsheets

With future management of other Smart 3D catalog data, you can learn now and develop on future projects. Integrate with Smart Materials and Smart Enterprise and gain consistency of data across disciplines and tasks – specifications, models, isometrics, procurement, and fabrication and downstream data integrity.

## ABOUT HEXAGON

Hexagon is a global leader in digital solutions that create Autonomous Connected Ecosystems (ACE). Our industry-specific solutions create smart digital realities that improve productivity and quality across manufacturing, infrastructure, safety and mobility applications.

Hexagon's PPM division empowers its clients to transform unstructured information into a smart digital asset to visualize, build and manage structures and facilities of all complexities, ensuring safe and efficient operation throughout the entire lifecycle.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 3.8bn EUR. Learn more at [hexagon.com](http://hexagon.com) and follow us @HexagonAB.