PDC

PROJECT DATA CONTROL

PROJECT DATA CONTROL (PDC)

Flexible Plant Project Data and Engineering Content Management

Whether you are a manufacturer, plant Owner/Operator or an Engineering Procurement and Construction (EPC) company, you know what it is like to face growing complexity in your engineering design, along with growing pressures on project timescales, costs and resources. Your engineering documents and data represent your company's intellectual property and capital. Getting the most out of this investment by controlling, sharing, re-using and querying your content is often key to the quality, efficiency, success and profitability of future projects.

CAD Schroer's Project Data Control (PDC) solution is designed to help you achieve project success. PDC helps to increase accuracy, consistency and efficiency by providing an environment for effectively managing and administrating multiple project databases, as well as the engineering documents and information they contain (which is often deployed across different projects). It works with your preferred database architecture, and provides access from your design software or via the Web, enabling project collaboration across distributed locations without a significant administrative burden or the complex implementation requirements demanded by many other information management solutions.

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About PDC

PDC is a data management and engineering content administration environment for all your plant design data and associated documents, fully integrated with MEDUSA4 and MPDS4. Its open architecture provides excellent flexibility and integration options, allowing data to be made available to other PLM, PDM or ERP systems, or to other users via the internet. The system provides complete document version management, user and access privilege controls.

Flexible use of Databases

The PDC database allows you to use your choice of database architecture, such as Oracle for example. Database access is provided by MPDS4, MEDUSA4 or via the Internet. PDC allows you to manage all your project-related content, including 3D models (DXF, STL, IGES, STEP, VRML, MOD), 2D drawings, spreadsheets, and piping isometrics. It also looks after design-specific data, such as component attributes, parts lists or the current editing status of a drawing.

Global Working

With PDC, distributed design teams can work collaboratively without a significant administrative burden or complex implementation requirements. Connecting to shared, automatically synching database vaults, for example, allows engineers to gain global, controlled administrative and editing access to project and design data.

Features

- Flexible use of databases
- User access controls
- Database administration
- Global (distributed) working
- Web-based access
- Where-used queries
- Document relationship queries
- Document management and revision control

- ✓ Increase design efficiency, flexibility, accuracy & consistency
- ✓ Increase project quality
- ✓ Decrease project costs and lead times
- ✓ Improve project collaboration and communication
- ✓ Gain global access and insight

PDC/MPDS4 Integration

Administrators can use the MPDS4 Project Manager to administrate entire project databases in PDC and thus enable collaborative design across multiple locations. Users of MPDS4 can query any equipment models stemming from PDC to see where they are used, and if they are up to date. They can access the latest version of a piece of equipment in PDC, with the choice of updating the equipment in their design if appropriate. Where-used queries can be performed on named objects to find out in which documents they are represented (e.g. as a P&ID symbol, an MPDS4 instance, or a 2D view), thus assessing the implications of making a change. Such queries also help to find similar projects, enabling users to copy databases for a quick start on new designs. Users can also explore relationships between documents, such as between model files and their definition sheets. Downstream engineering data, such as piping isometrics, can be made available via PDC, thus making them accessible to all project stakeholders.

PDC/MEDUSA4 Integration

The PDC integration with MEDUSA4 provides total project document management, including document revision and status control. Users can manage and track paper-based ("virtual") documents, and store non-graphical design data, such as part numbers, for easy retrieval. The system locks files being edited, and can inform other users when a new version is available. PDC can also use MEDUSA4 data (components, assemblies, drawings etc.) for the management of parts lists or Bills of Materials (BOM), and allows designers to search and retrieve components from different drawings for use in their current design.

Implementation Consultancy

CAD Schroer provides expert PDC database implementation services to suit your individual requirements.

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