SIEMENS

Substance Compliance

Comprehensive management of material and substance compliance information

Benefits

- Intelligently integrated material and substance information provides a single source of accurate and compliant data to support design for the environment (DfE) and lifecycle assessment (LCA) initiatives
- Reduces errors and rework costs by automating the exchange of material and substance declarations with suppliers
- Minimizes risk of significant fines, restricted market access and damage to brands by identifying, tracking and reporting substances of concern that are used in a product

Teamcenter® software's solution for substance compliance and material content information provides you with a flexible and easy-to-deploy toolset to meet your industry's strict environmental compliance requirements. Teamcenter plays an important and growing role in helping companies develop "green" environmentally friendly products, helping you understand and control the material makeup of your products, and complying with environmental regulations created to limit the use of hazardous substances in products. Teamcenter reduces the costs associated with collecting and managing the vast amount of environmental data required to establish and document the compliance of complex products down to the substance level.

Developing environmentally compliant products is a must for any company that competes in the global marketplace. The OEM supply chain is unquestionably moving toward compliant materials, phasing out and replacing current components and materials with new green ones. Therefore, OEMs cannot afford to wait for the changes to be forced upon them by their supply chain; rather they must take a proactive approach to assess the impact that material choices may have on downstream processes.

Noncompliance costs can range from fines to more severe penalties, including being prevented from competing in key markets. Lack of visibility to compliance information can also lead to increased excess and obsolete inventory costs and excessive product redesign costs. With a myriad of current and future mandates such as EuP (energy-using products) on the horizon, you must think strategically about the environment and realize that sustainable business practices are linked to environmental stewardship and "green" business practices.

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Features

- Create and manage materials and substances in Teamcenter with a holistic integrated material management solution
- Manage supplier material and substance disclosure process with automated processes to gather and validate material declarations from external suppliers
- Standard regulatory rule sets* for compliance grading against REACH, RoHS, GADSL, IEC 62474, conflict minerals and more
- Authoring management facilitated by advanced Microsoft Office integration
- Intuitive user interface using icons, queries, summary views and dashboards to easily understand material composition, regulatory information, applied exemptions, compliance status and history of compliance checks
- Configurable rules engine to satisfy company-specific and future substance-based environmental compliance regulations
- Secure, open, scalable architecture to enable data exchanges with third-party material sources (e.g. import MatML files for content, IMDS) and supplier warehouses (e.g. BOMcheck)
- Easily tailor output to match various standard formats (e.g. IPC-1752)
- Product structure management with impact analysis reporting and visualization
- Change management and tightly integrated workflows

Key Teamcenter capabilities

Teamcenter offers a complete set of functionality for analyzing and tracking compliance at the substance, material, part and product levels. It can easily be integrated into your existing supply chain, design and manufacturing systems to support data collection and reporting with full industry standard reporting support (e.g. IPC-1752A, IPC-1755).

Materials managed in Teamcenter can be consistently used across the Siemens PLM Software suite of solutions ensuring that everyone from upstream CAD and CAE, to downstream manufacturing is using the same thing. The material and substance data model enables you to trace a substance from a supplier across a structure to determine its impact on the product's lifecycle and assess the risk that changes may have to your bottom line. This solution establishes Teamcenter as the single source of approved materials for your company.

The Teamcenter substance compliance solution enables all users to quickly understand how well your product complies with local regulations in different regions of the world. It leverages the compliance process manager (CPM) tool from thinkstep to check a BOM for specific substances in accordance with environmental compliance regulations. Preconfigured rule sets* make it easy to understand and keep up with the ever changing global regulations such as REACH, RoHS, GADSL, IEC 62474, conflict minerals and more. A rules editor is also available and allows you to create and manage your own custom rules.

Summary

Along with the current environmental regulations, Teamcenter is the best platform for addressing future sustainability requirements such as DfE and LCA because it can capture and manage all material and substance information in a single-source environment. This enables you to design for unique market requirements, use environmental guidelines as a strategic advantage and bring innovative products to market faster than the competition.

Teamcenter maximizes the visibility of compliance information in all stages of the product lifecycle and minimizes the risks and costs associated with noncompliance. With it you can define your sustainability initiatives as requirements, model and optimize them in CAD, define and execute the manufacturing processes to build your products, and prepare to service them in the field. This product defines Siemens PLM Software's commitment to sustainability. Substance compliance is one of the key pillars of this initiative.

thinkstep is the global market leader in strategic consultancy, software solutions, and extensive services in the field of sustainability