

Regulatory Compliance

Managing Material Composition and Compliance with Regulations



Industry Business Drivers

High-Tech companies that operate globally must consider regulatory compliance as a matter of utmost importance. A failure to comply with the requirements can result in product launch delays, recalls, fines, poor customer satisfaction, and damaged public image. Companies with a reactive approach to environmental regulations often experience costly, late-stage design changes as a result of compliance requirements not being readily accessible at every phase of the product lifecycle.

As environmental and health concerns continue to grow in society, governmental push on manufacturing companies to adopt "Eco-Design" best practices are expected to increase. Eco-Design is about integrating environmental considerations into product development, design, maintenance, and disposal. This is especially true

for High-Tech companies who must meet the RoHS (Restriction of the use of Certain Hazardous Substances), WEEE (Waste Electrical & Electronic Equipment) and REACH (Registration, Evaluation, and Authorization of Chemicals) regulatory mandates in Europe, as well as similar initiatives in Asia and North America.

The Solution

As part of IBM's comprehensive Product Lifecycle Management (PLM) V6 solutions, the Regulatory Compliance solution enables High-Tech companies to implement "Design for Compliance" functions as an integral part of the product development process, allowing the development team to check material content information early on and throughout the product lifecycle.

Highlights

- **Manages material data to meet customer and regional compliance mandates**
- **Analyzes product compliance throughout the product development process**
- **Resolves compliance issues early in the development process**
- **Maximizes the re-use of compliant components**
- **Rapidly assesses impact to products and suppliers when new restricted substances are Identified**
- **Integrates the supply chain for successful collection of compliance certifications and material composition**
- **Improves data quality by establishing a material collection standard across the supply chain**
- **Reduces response time for customer environmental reporting requests.**

With the Regulatory Compliance solution, composition for make/buy components are managed without disruption to production schedules as companies can easily assess their compliance against RoHS, WEEE and other regulatory mandates in all of their operational regions. Moreover, this V6-based solution can be extended easily to handle special compliance needs in response to new and changing compliance regulations.

Throughout the product development cycle, the Regulatory Compliance solution enables High-Tech product development teams to check material content information from any design view and generate reports to compare the compliance of manufacturing equivalents, list recyclable content, or evaluate best and worst manufacturing locations. This information can be cross-referenced against multiple regulations in all geographies, allowing designers to make changes sooner rather than later. When requested, product compliance can also be reported to customers, auditors, or the public.

Capabilities are also provided to enable suppliers to be incorporated into the same material compliance evaluation process as the OEM's to ensure that the suppliers' component libraries contain the most current material compositions and RoHS, WEEE or other regulatory certifications. This critical information helps the designers make better design decisions and component choices based on the customer or market requirements that the new product must meet.

Data quality and efficiency is also improved by using efficient supplier declaration approval process. Establishing a material declaration collection standard across the supply chain also improves the supplier selection process by using performance metrics. When new restricted substances are identified, companies are able to rapidly access and manage the impact of the new rule to products and suppliers.

Produced in collaboration with various global manufacturing companies, the Regulatory Compliance solution from IBM helps High-Tech companies maximize the re-use of compliant components and reduce the costs related to product compliance by identifying and resolving compliance issues early in the product development process.

The Regulatory Compliance solution integrates the following sub-processes:

- Material Declaration Management
- Material Compliance Assessment
- RoHS Compliance Management
- FDA (Food and Drug Administration) Compliance Management
- EuP (Energy-using Products) Recycle Content Compliance

The Regulatory Compliance solution is supported by the following products:

- ENOVIA® Materials Compliance Central™
- ENOVIA® Materials Compliance Connect
- ENOVIA® Materials Compliance Supplier Portal
- ENOVIA® Engineering Central™
- ENOVIA® X-BOM Materials Compliance
- ENOVIA® Live Collaboration
- ENOVIA® Live Collaboration for Workgroups



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