



Hazardous Materials Management

i2 solutions can enable companies and their suppliers to collaborate on sourcing and procurement activities across the end-to-end supply chain. Designed to bridge product development, sourcing, supply planning, and procurement across the supply chain, i2 solutions can provide the ability to create, execute, and sustain global sourcing strategies, reducing cost and risk for both an organization and its suppliers.

i2 Hazardous Materials Management™ (i2 HMM™) is designed to effectively manage the requirements of product environmental regulations such as RoHS (Restriction of Hazardous Substances), WEEE (Waste Electrical and Electronic Equipment), and ELV (End-of-Life Vehicles), as well as the design and manufacturability effects resulting from the industry transition to lead-free components. i2 HMM can extend the i2 Product Sourcing™ foundation to provide the necessary materials management application-use models for product engineering and content management. i2 HMM also can integrate with IHS Electronic Database and related offerings to leverage the latest industry parts content information.

Industry Challenges of Environmental Regulations

Electronic waste is reaching unprecedented proportions, which in turn is creating a paradigm shift within the electronics industries. Environmental regulations such as RoHS are driving significant change in the way products must be designed and manufactured. Regulatory compliance is mandatory — companies that don't comply risk forfeiting revenue and market share from those markets covered by the regulations. The entire electronics supply chain — from component manufacturers and distributors to OEMs and contract manufacturers — is being affected. Any industry using electronic parts in its products is experiencing the shift, either directly or indirectly. Facets of an organization must be prepared to deal with the design, supply, and manufacturing impacts of industry changes resulting from new regulations.

The i2 Approach

i2 has developed a holistic solution approach that addresses the IT and business process requirements for environmental regulatory compliance and lead-free manufacturing. The IT problem cannot be solved with software alone; it also can require content, process reengineering, and business consulting (encompassing system/solution design, implementation, deployment, organizational impact, and change management).

i2's solution focus is on the front-end of the business process, spanning product design, sourcing, and supply management. i2 has a track record in providing foundation applications for Master Data Management (MDM) and Component Supplier Management (CSM).

i2 HMM Components and Use Models

i2 HMM can leverage the strong foundation provided by i2 Product Sourcing, which offers a solution for such front-end processes as component supplier management, reuse management, part and

Throughout its more than 20-year history of innovation and value delivery, i2 has dedicated itself to building successful customer partnerships. As a full-service supply chain company, i2 is uniquely positioned to help its clients achieve world-class business results through a combination of consulting, technology, and managed services. i2 solutions are pervasive in a wide cross-section of industries.

Benefits

- Realize competitive differentiation by ensuring compliance and avoiding penalties and lost sales
- Provide value-added services to clients to ensure compliant and sellable products
- Address environmental requirements for product development, sourcing and procurement, and manufacturing

supplier-related business workflow (e.g., new part introduction), BOM collaboration and analysis, obsolescence management, and design for supply. i2 HMM can extend these existing capabilities to support materials and substance data (associated with manufacturer parts), and can provide additional functionality specific to environmental compliance and manufacturability assessment. Furthermore, the solution can be integrated with any enterprise IT infrastructure to enable bi-directional sharing of product information with applications including PLM and ERP.

Capabilities and Features

Content Management

i2 Product Sourcing's capabilities for BOM, item, and supplier content management can be extended to include support for material, substance, and manufacturability content management, allowing users to:

- Define templates for data upload (according to customer requirements)
- Export BOMs and templates to assist with offline data preparation (e.g., in Excel spreadsheet format)
- Upload externally-prepared files (e.g., Excel), or enter data directly in the system (includes data validation; system can also distinguish between full and partial material disclosure)
- Collaborate with suppliers (e.g., suppliers can log in and interact with their own data)
- Manage AMLs (including BOM-specific AMLs)
- Set up cross-references between traditional lead-based parts and newer lead-free parts
- Set up and process alerts (e.g., to manage incoming changes to existing parts)

Design for Environment

i2 Product Sourcing's design support capabilities can also be extended to support use models for environmental and manufacturability requirements, allowing users to:

- Search and compare parts using environmental and manufacturability criteria
- View and analyze BOMs for substance compliance, obsolescence, and manufacturability
- Perform "what-if" analyses supported via temporary changes to BOMs, parts, or AMLs; desired changes can be routed for review and approval via engineering change process
- Streamline new part introduction process (or part change process), which can be extended to support additional requirements for material assessment and manufacturing data

Reporting

i2 HMM can provide the ability to view and export standard reports, or to create custom reports per company requirements. Standard reports are provided according to the following three categories: data population, material declaration, and manufacturability.

Sourcing and Supply Management

The i2 HMM solution can be used with i2 Supplier Relationship Management™ to provide important sourcing and supply management capabilities, which may include environmental factors such as:

- Commodity and supplier management (spend analysis, supplier rationalization, allocation and preference management, environmental requirements for RFx and contracts, etc.)
- Sourcing and supplier metrics (environmental objectives, lead-free roadmap, etc.)
- Supplier performance assessment (scorecarding)
- Supplier and contract compliance assessment (e.g., to RoHS, WEEE, ELV, or lead-free)

For more information on i2 HMM and other i2 solutions, visit www.i2.com.



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