



Master Data Management

Most companies today have multiple systems that require the same information—the same set of master data. Misaligned and inconsistent master data can cause costly data redundancies and misleading analytics. Data is critical to intelligent decision-making process. Accuracy and completeness of data can directly impact the decision-making process and can help companies realize supply chain value.

i2 Master Data Management™ (MDM) can provide companies with a way to integrate and consolidate master data without having to replace existing infrastructure investments. i2 Master Data Management can provide a trusted infrastructure with built-in processes and services for Enterprise Data Management.

Customers can stage, consolidate, validate, cleanse, store, augment, cross-reference, and publish data to systems in their IT infrastructure. By ensuring cross-system data consistency, i2 Master Data Management can enable flawless execution of business process—while leveraging existing IT investments and reducing total cost of ownership to manage business critical data.

Business benefits and features

Master Data Management is a new class of enterprise applications designed to support the management of data across heterogeneous enterprise applications.

i2 Master Data Management can allow the enterprise to maintain a virtual data dictionary using i2 Studio.™ MDM can also streamline the create, read, update, delete (CRUD) processes for any entity modeled in MDM. A powerful business process execution engine (BPE) and validation framework can further simplify the creation of data workflows.

Key functionality differentiators can include:

- Data modeling: Create and maintain data models such as Item, BOM, routing, resource, and operation; MDM can also upload from existing models using XML
- Data processes: Create and maintain data management processes such as item maintenance, BOM maintenance, supply chain maintenance resource calendars, and inventory optimization parameters
- Powerful validation framework to support creation of data validation rules

i2 Master Data Management key features

Table editors

Table editors are automatically generated for each entity modeled within MDM. These have the following features:

- Pattern and expression-based search (>, <, =, !=, <=, >=, and Like operator)
- Wizard to create SQL expression search and save the search for later use
- Export filtered set of data
- Mass update, increment/decrement, or inflate/deflate the properties on the selected records
- Edit multiple records simultaneously
- Copy function to create new records

Hierarchy management

A hierarchy in MDM is defined as any logical grouping of objects/components in the system.

- Instances of any arbitrary object/component in the system can be grouped together to form a tree structure, thus constituting a hierarchy.
- The Manage Hierarchy feature in MDM can facilitate the creation of any number of hierarchies on any object/component that is present in the system.
- User Groups can be assigned to specific nodes in the hierarchy, which then become the dimensional domains of the users in that group.

Data load

The Data Load feature of MDM can help to:

- Initiate the process of receiving data from the client database, comparing the data against set rules, and committing this data into the MDM database
- Execution of end-to-end or data load workflow to propagate the input staging data into MDM; the MDM application can provide a CIS Frontbus operation to achieve this.

Workflows

MDM exposes certain sample manufacturing, retail, and inventory optimization workflows.

- Operation
 - Create and maintain manufacturing and distribution operations for building a supply chain network
 - Create and maintain operation overrides
 - Create and maintain time-phased yield for operations and operation overrides
 - Operation where used report
- Bill of resources
 - Create and maintain bill of resources to carry out an operation
 - Create and maintain alternate resource choices
 - Bill of resource where-used report

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- Routing
 - Create and maintain manufacturing as well as distribution routing
 - Create and maintain time-phased routing yield
 - Routing where-used reports
 - Resource maintenance
 - Create and maintain resources
 - Create and maintain resource calendars and capacities
 - Resource where-used report
 - Bill of material maintenance
 - Create and maintain bill of materials
 - Bill of material where-used reports
 - Supply path
 - Dashboard to view the supply chain network for an item
 - Drill down into the supply chain details with detail or consolidated view
 - Launch workflows to maintain supply chain network
 - Maintain priorities across different supply chain branches
 - Distribution network
 - Create and maintain distribution lanes and transport modes
 - Create and maintain distribution calendar across two locations
 - Distribution lane where-used reports
 - Create and maintain bill of distributions for product sourcing and distribution
 - Create and maintain sourcing priorities and percentages
 - Item stocking and replenishment
 - Create and maintain stocking locations for an item
 - Create and maintain time-phased inventory holding and replenishment parameters
 - Create and maintain time-phased customer service level for inventory planning
 - Create and maintain inventory planning and replenishment planning bands
 - Planning schedule
 - Create and maintain planning schedule for items
 - Inventory optimization— the inventory optimization workflows provide an integrated solution for inventory management that supports:
 - Data management
 - Inventory analysis
 - Inventory policy management (segmentation, criticality groups, OLT profile)
 - Scenario management
 - Implementation and analysis of inventory strategies

Security

- Role-based security for workflows and data for users and user groups
- Common sign-on with i2 applications
- Delegate authentication to third-party system

Design environment for field customization

- Modify existing models, workflows, and business rules in the base product
- Define new custom workflows, models, and business rules
- Efficiently create new UI screens and workflows with the design studio

Support for i2 planning applications

- Supports supply chain planning and ODS
- Support replenishment and spare parts planning



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