

JD EDWARDS ENTERPRISEONE SUPPLY CHAIN BUSINESS MODELER



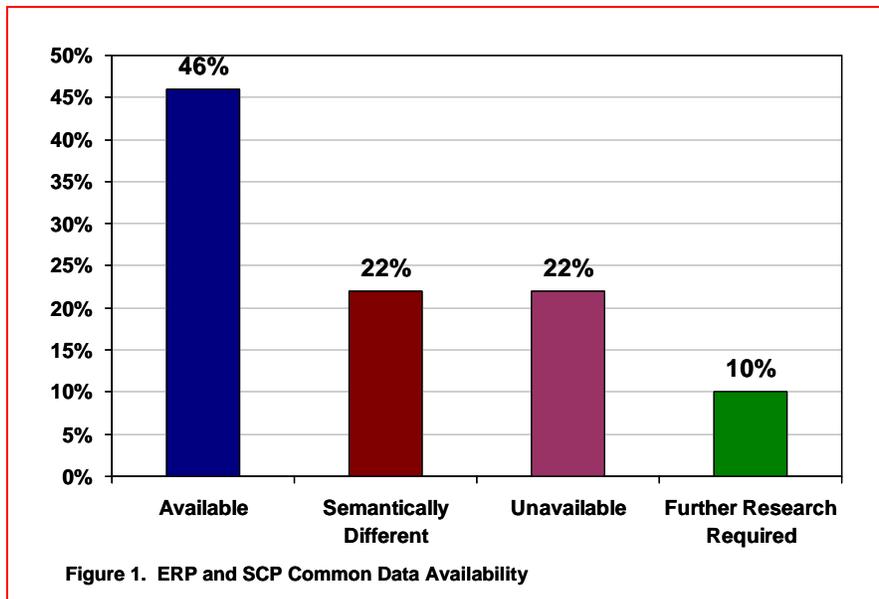
KEY BENEFITS

- Coordinate ERP and SCP system data
- Open, XML standards
- Transform and augment ERP data
- Augment connector functionality across ERP modules from Oracle's JD Edwards EnterpriseOne and other systems
- Choice of implementation methodologies and tools

Provide integration for your supply chain to JD Edwards' enterprise software, other Oracle applications and legacy systems for seamless transactions of data across your networks. Leverage an XML-based API to provide a standard integration solution for most supply chain management and planning or to meet unique needs extend or customize a standard integration solution.

The Issue: ERP and SCP data model do not provide standard integration

Differences in ERP and supply chain planning data models make it difficult to provide a standard integration environment for all enterprises. As shown in Figure 1, approximately 25 percent of data that is required by supply chain planning solutions is typically available in ERP systems but is semantically different in ERP.



For example, when modeling transportation in ERP, customers model carriers and lead-time for carriers. In supply chain planning, transportation is defined using transport modes operating on lanes between branches. For this reason, transportation data must be transformed before a supply chain planning system can use it. However, the required data transformations depend on how information is modeled in ERP. In this instance, transportation details can be defined in the core transportation module or in the advanced transportation module of an ERP system.

In addition, as noted in Figure 1, less than 50 percent of the data that is required by supply chain planning exists in ERP systems. There is a belief that the ERP data model should be expanded to include all data that is required for supply chain planning with the required supply chain representation. But, since ERP systems focus on business process execution

while supply chain planning systems focus on planning for the future, these systems will often not have the exact same data model.

The Solution: Seamlessly Integrate Using Standards

The Oracle JD Edwards EnterpriseOne Supply Chain Business Modeler (SCBM) and its associated integration efforts enable users to seamlessly integrate Supply Chain Planning (SCP) and Enterprise Resource Planning (ERP) systems. This standard integration method is available for customers who are running the latest versions of JD Edwards EnterpriseOne Supply Chain Management (SCM) product line and for customers whose business processes adhere to the standard set of processes that the JD Edwards EnterpriseOne Supply Chain Planning suite facilitates.

However, customers who are integrating their supply chain planning system with older versions of ERP or legacy systems and customers who want to maximize the benefits of the JD Edwards EnterpriseOne Supply Chain Planning suite require additional integration customization to handle their unique business processes. The JD Edwards EnterpriseOne SCBM framework that enables the flow of information from ERP to SCP and back again using XML documents enables the additional integration work.

SCBM and its supply chain planning connectors enable you to install JD Edwards EnterpriseOne products and, with little or no customization, integrate these products with other JD Edwards EnterpriseOne systems. This standard integration method supports a set of core capabilities that are present in almost all integration implementations in the field, and can be easily upgraded with new versions of SCBM.

In the standard integration, SCBM transforms data, including optimized plans, for use in all integrated applications. JD Edwards EnterpriseOne SCBM controls the process of returning optimized plans to ERP systems and effectively removes the overlap of plans that can lead to multiple planning messages for the same process, or double-counting, in ERP. JD Edwards EnterpriseOne SCBM also offers the ability to return specific optimized plans to specific ERP systems.

JD Edwards EnterpriseOne SCBM and the supply chain planning connectors provide a standard, upgradeable integration solution that addresses common supply chain planning functionality. However, since it is impossible to deliver a standard integration method that addresses the needs of all customers with their wide range of business processes and implementations, the solution can be customized to meet your specific needs.

In the standard integration solution, the spectrum of implementation possibilities is reduced to a core set of capabilities that is present across almost all current ERP implementations. Since businesses tend to be successful by offering unique services or components, this integration system is not sufficient for modeling all business processes. The unique processes and products that make businesses successful also drive customers' needs for non-standard integration.

Customizing Your Integration System

The standard JD Edwards EnterpriseOne SCBM integration system is a starting point that saves implementation time and effort and allows you to develop upgradeable integration solutions. To address business needs beyond standard integration, you can customize the JD Edwards EnterpriseOne SCBM Connector integration system using these processes:

- Transforming and augmenting ERP data
- Augmenting JD Edwards EnterpriseOne SCBM connector functionality
- Augment JD Edwards EnterpriseOne data model

(1) Transforming and Augmenting ERP Data

Since 22 percent of ERP data is semantically different than the data that supply chain planning requires, this data must be transformed before it can be used in supply chain planning. In addition, since an additional 22 percent of the data that SCP requires is not available in ERP, ERP data must often be augmented. SCBM simplifies the data augmentation process with a data merge scenario. This type of import scenario enables users to add missing data to SCBM objects by updating objects with new data values from XML documents. Since merge scenarios can update any data attribute in an object other than a primary key, these scenarios can be used for transforming data and for augmenting data.

(2) Augmenting Connector Functionality

Sometimes supply chain planning connectors must have their functionality augmented. For example, you might want to provide purchasing schedule information to a module that the connectors do not currently handle. Data augmentation may be especially important for freeform supply chain planning products like JD Edwards EnterpriseOne Strategic Network Optimization module.

By structuring the configuration file as XML and by defining a style sheet for it, the script itself could be administered from a web front-end, removing the need to edit the script. In this paradigm, an individual without any knowledge of the script or the scripting language could update integration scripts using their understanding of the new functionalities in the Connector version that they are installing.

(3) Augmenting the SCBM data model

If the SCBM API does not include an object or attribute that you require, you can add to the SCBM data model. New objects and/or attributes for the SCBM data model can be created using the same naming conventions used in the standard SCBM data model.

Which Integration Tool to Use is Based on Your Company's Situation

The choice of which integration tool to use for extending the standard SCBM integration system depends on the circumstances at specific customer sites. For example, your corporate standard might require a commercially available ETL. If there is no corporate standard, then the choice should be made regarding tasks to be completed. Since SCBM and the associated SCP connectors are XML-based, a tool that handles XML is used so that data does not have to be transformed between different file formats. However, because XML is an open standard, many different tools can be used. The choice of tool is an implementation decision, with the correct choice reflecting the customer's needs and the implementation team's skill set.

Solution Integration

- **JD Edwards EnterpriseOne Demand Management.** Generate statistical demand forecasts and reconcile the forecasts to generate a one-number enterprise forecast.
- **JD Edwards EnterpriseOne Strategic Network Optimization.** Enable importation of aggregated strategic data from SCBM and generate models that represents the customer's supply chain from sourcing through to manufacturing, storage, and distribution which can be used to derive the lowest cost solution to satisfy demand, provide inventory build levels, and lane sourcing recommendations.
- **JD Edwards EnterpriseOne Production and Distribution Planning.** Populate a pre-existing flat file database with data and help solve for net deployment requirements, net production requirements and purchase order recommendations.
- **JD Edwards EnterpriseOne Production Scheduling.** Extract SCBM data and create csv files for importing into a Microsoft Excel spreadsheet, solve for a production schedule, and pass the schedule back to SCBM for use in other ERP modules.

Copyright © 2005 Oracle. All Rights Reserved.

This document is provided for information purposes only, and the contents hereof are subject to change without notice. This document is not warranted to be error-free, nor is it subject to any other warranties or conditions, whether expressed orally or implied in law, including implied warranties and conditions of merchantability or fitness for a particular purpose. We specifically disclaim any liability with respect to this document, and no contractual obligations are formed either directly or indirectly by this document. This document may not be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without our prior written permission.

Oracle, JD Edwards, and PeopleSoft are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

Z471A