

Decreasing quoting time and increasing accuracy in an EMS environment

Benefits

- Decreases quoting time and increases accuracy in an EMS environment
- Maps customer BOM quickly and accurately in your ERP system for component suppliers
- Reduces quoting time for repeat BOM files from the same customer
- Connects to component vendor web portals for latest pricing
- Avoids production mistakes caused by sourcing incorrect parts that do not fit the board

Summary

Electronic manufacturing services (EMS) companies are required to provide quotations for many projects, even those that do not make it into production. Design companies send out several requests for quote (RFQ) and review them to select the best manufacturer for each project.

Due to sheer volume, it is imperative that quotations be created accurately and in a timely manner without relying on input from the manufacturing process engineers.

Valor™ BOM Connector software addresses these challenges and complements the existing Valor portfolio to reduce the time needed to create accurate quotations for the components of PCB assemblies. The Valor portfolio is part of the Xcelerator™ portfolio, the comprehensive and integrated portfolio of software and services from Siemens Digital Industries Software.

Valor BOM Connector

The Valor BOM Connector addresses the unique challenges of an EMS quoting department by providing the capability to source many different types of customer bill-of-materials (BOM) files and mapping them to parts that are either available in the warehouse or need to be sourced from material suppliers. File

types, formats and content all differ depending on a BOM file's source and even among multiple BOM files from the same customer. It is also possible that parts listed on a BOM do not fit the PCB itself. Missing these issues up front can result in inaccurate quotes and cause problems during expensive production runs.

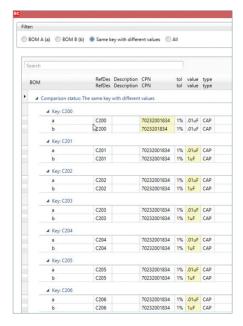


Figure 1: Powerful BOM checking ensures that potential issues are highlighted early in the quoting process.

The Valor BOM Connector provides a complete set of capabilities to parse the customer BOM and extract key information. Customer part number, description, component counts, quantities and approved vendor list (AVL) data are all crucial to understanding the parts detailed in the BOM. It is not unusual for

Valor BOM Connector

a single BOM file to be internally inconsistent, so the Valor BOM Connector is used to also check the BOM for discrepancies. The data validation is further extended by integration with Valor Process Preparation software, which provides complete computer-aided design (CAD) translation capabilities to deliver an accurate understanding of the PCB that can be used to confirm the CAD and the BOM's consistency.

Once the key BOM data has been extracted, several power searches are available to connect the customer's part number with the internal part number of the EMS company. Any previous connections can be immediately applied. However, the real power of the Valor BOM Connector is it can be used to address missing connections quickly and accurately using automated online searches and queries based on part descriptions. Each possible connection is ranked to identify the most likely connection. The result is a complete and accurate "golden BOM" that can be uploaded to the EMS enterprise resource planning (ERP) system.

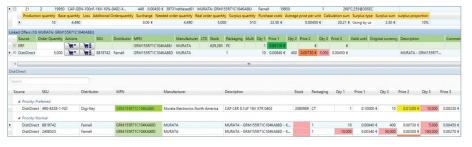


Figure 2: Component suppliers have access to give up-to-date pricing and availability information for each part.

Valor BOM Connector has already been proven with existing customers using many popular ERP systems. Staying connected to this ERP information allows the Valor BOM Connector to provide accurate sourcing and pricing for each specific BOM.

Powerful online searches can then be used to determine accurate pricing for the project. Connections are made to the common part suppliers with the credentials already used by the EMS company. This ensures that preferential pricing and deliveries are available, along with additional information such

as obsolete dates and quantity price breaks. If needed, requests for price quotes can be made by email or directly through the component vendor portals.

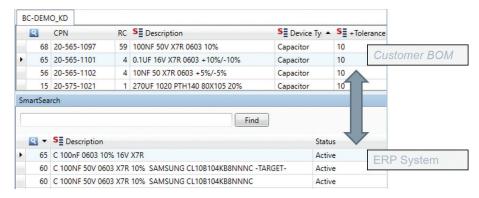


Figure 3: Quickly compare the customer BOM with the latest information in your ERP system.

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