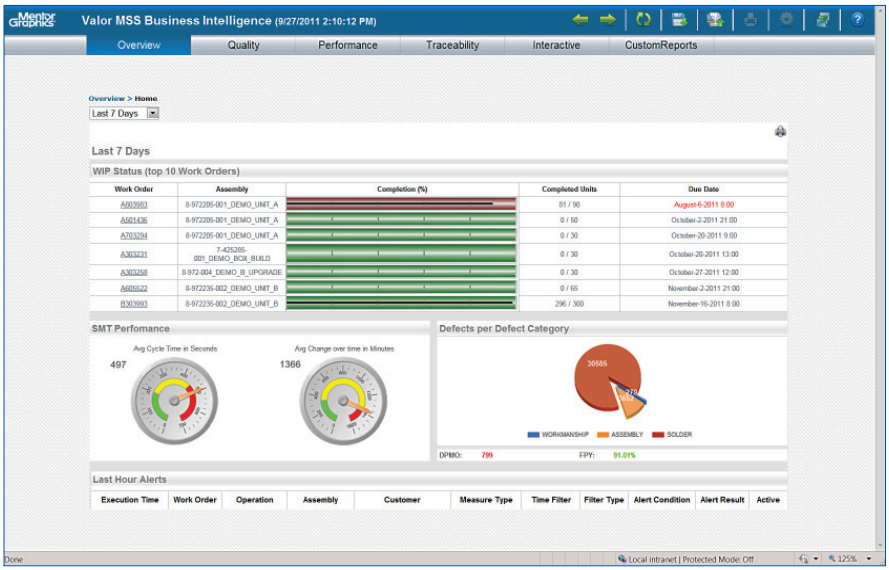
Valor MSS Business Intelligence

Decision support solution for manufacturing operations management

Manufacturing

D A T A S H E E T



Web-based dashboards and reports visualize KPIs, work order status, quality levels, trends, alerts, etc. Operational data is combined with domain knowledge built into the visualizations to deliver highest value of information.

OVERVIEW

Business intelligence (BI) solutions are deployed to gain insight and value from business data. BI solutions are typically generic with analytical tools, database management, and visualization tools for end users to develop reports. Valor® MSS™ Business Intelligence (VBI) is designed specifically for the PCB manufacturing industry with domain knowledge built-in. VBI starts with access to rich data sources from Valor MSS shop floor modules and then combines data for high-value intelligence. VBI automatically identifies the Valor data sources available in your factory. There is no need to mine vast amounts of low value data. VBI quickly delivers optimal decision support via dashboards, interactive reports, and alerts.

MAJOR BENEFITS:

- Creates operational improvements through better decision making based on the right information
- Achieves on time delivery (order fulfillment) improvement with WIP tracking
- Shortens the time-to-correction with configurable alerts and automated reports
- Complies with traceability requirements with instant accurate reports by PCBA, work order, reel ID
- Improves customer communications with secure access to reports and dashboards
- Focuses engineering assets on solving the right problems to gain the highest value improvement
- Improves asset management and equipment choices by tracking quality and performance per asset
- Improves supplier quality by tracing shop floor quality to material lot codes

DOMAIN KNOWLEDGE

One example of the value of built-in domain knowledge is in the automated calculation of DPMO (Defects Per Million Opportunities) regardless of the mix of printed circuit assembly models in production. Domain knowledge also makes it possible to provide many pre-configured high value reports. These reports deliver value focused on the questions asked by most PCB assembly managers. Many reports are also interactive so that the user can mix and match dimensions and measures, very similar to building a pivot table in Excel.

REPORTS

Reports are based on three specific data streams: Asset Utilization (based on machine performance data), Materials (traceability, consumption, and waste), and Quality (based on results from automated test, inspection, repair stations and WIP points). When all three data streams are included in the product configuration, there is a substantial increase in value. One high value application is comparing quality based on products built per the same process but using different production lines or different process resources such as screen printers, SMT machines or ovens. Complex reports are achieved quickly because the data is pre-processed in data warehouse OLAP cubes for ready access by reporting demands.

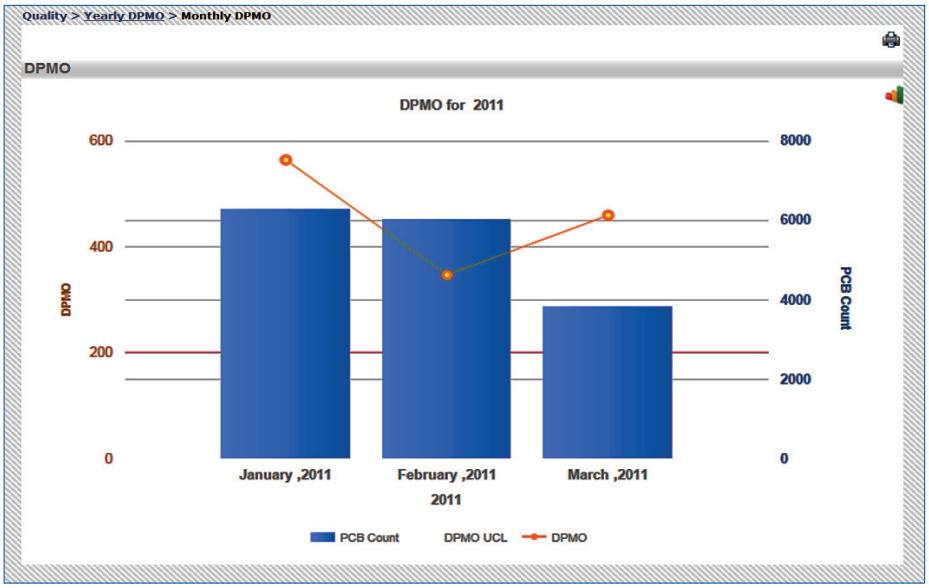
KEY FEATURES

Dashboards:

- WIP status and Work Order tracking
- Displays key KPIs; user can create custom KPIs
- 'Home Page' with tabs and pull-down lists to other standard reports
- Drill down by clicking on objects in the standard report

Analytical Reports:

- Sophisticated analysis engine
- Information can be 'sliced and diced' to achieve the desired insight
- Drill down capability to provide 'root-cause' analysis



DPMO tracking with Upper Control Limit (UCL). Alerts to specific individuals can be set to trigger on parameters such as the UCL.

- Can export analytical reports to an Excel pivot table for further root-cause analysis across multiple departments
- Choices of dimensions and measures available from a pull down list are tailored to those valid data sets for the analysis being performed
- Further analysis using Excel with connection to live data

Reporting:

- Unlimited number of data consumers
- Targeted reports to specified users
- Uses Microsoft Reporting Services
- Schedule pre-defined report content and frequency
- Automated email or ftp delivery
- Report subscription management
- Secure reports based on viewer roles and permission level
- Export to PDF
- Export to Word, TIFF, Excel

SYSTEM REQUIREMENTS

- Windows Server 2003/2008, 64-bit edition
- 2 GHz Quad Core Xenon
- 8 GB RAM
- 500 GB disk space
- Multi-platform with Microsoft SQL server and/or Oracle

For the latest product information, call us or visit: www.mentor.com/valor

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