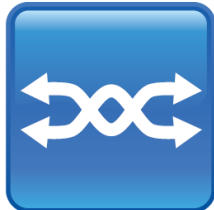**scalable** **integrated** **efficient**

Panasonic Factory Solutions Asia Pacific (PFSAP)
285 Jalan Ahmad Ibrahim, Singapore 639931
Tel. No.: (65) 6860 5326/286
cimsales@sg.panasonic.com

traceability module

helps you meet regulatory requirements—whether they are the industry's, your customer's, or your own.

Barcode readers are used to capture panel identification data while the module integrates with PanaCIM Enterprise Edition's Material Verification module to provide traceability of materials to panels for mounting equipment, screen printers and hand place stations. All machine errors are captured by panel with support for a customer-defined data archival period.

Three levels of traceability:
- Panel—tracks and records information about the panel, the product being built on it and the machine used to build it
- Component to Panel—allows for the identification of which materials were used on which panel
- Placement to Panel—identifies placements by reference designator in addition to tracking the panel and materials used

material control module

manages information about your production operations' required materials—including consumables and equipment resources.

By viewing your factory as a collection of Production Zones and Support Areas, Material Control provides expanded coverage for material tracking beyond just your production line. These areas are uniquely named and bar-coded for integration within all applications of the Material Control module.

Material Allocation provides visibility for partial material items and reserves materials so others can not use them until they are released. The MSD control application monitors and displays each MSD component's remaining floor/shelf life with definable parameters.

The module's 3 main applications are:
- Material Tracking and Inventory
- Material Allocation
- Moisture Sensitive Device Tracking and Control

material verification module

assists with changeover setup, splicing, and parts exhaust—ensuring the right components are loaded into the right place. In addition to the software, this module includes hand-held barcode scanners for RF communication as well as wireless Access Points promoting real-time feedback. Screen printer materials are also supported and include paste, squeegee and stencil.

- RF-based scanner—Scan 1D and 2D barcodes and transmit data to the Host system and other equipment wirelessly
- Operator login—Scan or type in an operator barcode to record selections
- Recording of material data—Use material barcodes to collect part number, vendor, lot/date code, initial quantity and a site-wide user-defined field. Scan and/or key in data.

production monitoring and dispatch module

provides a centralized monitoring and notification system utilizing real-time data to identify events that can impact production and dispatch the corresponding tasks to the appropriate labor resources. Having this module's visual display system on your production floor allows maximum visibility and communication between all departments within the factory.

PMD's event tracking, performance metric displays, and labor dispatching allow labor resources to be notified of production events regardless of their location. The result is that the right person does the right task at the right time to keep your production moving.

- Immediate visual notification of real-time events, line and machine status
- Provision for operator acknowledgement and ownership of tasks
- Automatic detection of event resolution
- Customizable key performance indicators (KPI) display

production analysis module

is a web-based analytical tool used to monitor factory performance of lines and machines. Its charting and alerting capabilities allow analysis of manufacturing floor issues so that proper action can be taken for any needed improvements to maximize productivity. Since Production Analysis is browser-based, these analyses can be performed from anywhere, even outside the factory.

- Charting allows users to determine trends in machine and production performance, enabling effective preventive maintenance
- Alerting allows supervisors and operators to easily set up notifications
- Machine-level performance analysis
- Drill-down capabilities for root cause analysis

PanaCIM®
Enterprise Edition Software

A MES (Manufacturing Execution System) solution offering new levels of capability across your entire enterprise—incorporating equipment from Panasonic and others

integrate your enterprise with PanaCIM Enterprise Edition

A portfolio of solutions that integrate cooperating software products in a networked environment to solve key production problems by addressing the top objectives for successful electronics manufacturing:

- Maximizing productivity
- Reducing operating costs
- Increasing plant-wide visibility
- Minimizing response time
- Efficiently allocating materials, equipment, and personnel

any mix, any volume

enterprise link module

allows you to connect the valuable data available from your PanaCIM Enterprise Edition MES with the other business systems in use at your factory, such as MRP/ERP systems (SAP, Oracle, etc.). By seamlessly sharing data between these systems, the efficiency and productivity of your overall operation can be enhanced.

Examples of information that can be shared are:

- Traceability data to automatically update higher level traceability systems
- Component inventory or consumption data to update MRP with more accurate information
- Component loading information for tracking and inventory
- Production count and completion information to update planning and scheduling systems
- Material detail information downloads to PanaCIM for simplifying floor level scans

Contact your Panasonic Sales representative to investigate data links to meet your specific needs.

maintenance module

is continuously expanding to provide centralized maintenance scheduling, work order management, and logging functions for equipment resources within your enterprise.

The Feeder Maintenance unit allows feeders to be located in your factory's Production Zones, Material Areas, and Maintenance Areas—with each feeder possessing a unique barcode that remains with it for its lifetime. As a feeder moves through the factory, users scan its barcode to update its location and material contents and to validate its maintenance status. A graphic-based user interface allows feeder attributes definition as well as maintenance operations logging.

At any time, you can locate feeders by any of their attributes as well as perform snapshot feeder inventories for any defined location. Feeder maintenance can be planned based on the number of components fed or time since last maintenance.

customize your installation

The nine PanaCIM modules were developed to provide a complete portfolio of electronics assembly manufacturing execution software while still allowing you to pick and choose the modules best for your current business situation. Start with what you need and add on at any time.

minimize risk

Equipment mix, component suppliers, and customer demands have changed the industry dramatically over recent years. Rest assured that PanaCIM Enterprise Edition can easily grow and adapt along with your business with its continual development and modularity. Minimize your risks and choose PanaCIM.

keep maintenance costs down

When selecting an MES system, remember to consider ongoing maintenance costs. PanaCIM Enterprise Edition helps keep those costs low.

flexible, less risk, and low COO... an easy decision.

product changeover and control module

incorporates configurable levels of automatic line changeover management while integrating with other PanaCIM Enterprise Edition modules including Traceability and Material Verification.

Product changeover and control identifies the next panel entering the production line and compares it with the work currently being processed within the controlled work zone. Panel identification is performed through an automated input device, i.e., barcode scanner.

- Provides true "Lot Size of One" capability
- Identifies product/model
- Automates product recipe/program selection and downloads as required
- Processes top- and bottom-side within a single work zone
- Controls line, ensuring the correct product is downloaded and equipment is prepared, without human intervention

effective, innovative, practical partnership

At Panasonic, we believe a great partnership begins with solutions that solve real challenges—apparent from the plant floor to the board room.

total solutions for any mix, any volume

scalable   integrated   efficient

software training

PanaCIM Enterprise Edition

Basic
Building blocks for all PanaCIM-related tasks

Installation and Base Configuration
Service installation and MES system configuration

Custom
Target your needs depending on modules used

Advanced
Troubleshooting for the experienced user

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