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July 22, 2009 | Edited by Pat Reynolds

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Where OEE meets MOM

Since January, a group consisting mainly of technology providers, integrators, and builders and buyers of packaging machinery have been hammering out what they call the MES (OEE, Reliability) Definition Team Charter. The key goal behind the team's efforts is to define MES functions in a standard way.

In August, ISA-95 chairman Keith Unger will present the Charter to the ISA-95 committee. That committee is focusing on completion of ISA-95 Part 4, which revolves around the object model and attributes needed to support MOM (Manufacturing Operation Management), the term that is beginning to replace MES (Manufacturing Execution System). Last week I caught up with Stone Technologies' Kirk Weiss, who is the project manager of the MES (OEE, Reliability) Definition Team Charter, to learn more about what the group has been up to.

"We want to put together definitions so everybody has a common language for exchanging information related to Overall Equipment Effectiveness and reliability," says Weiss. "That way, when we get information from the control layer on the state of a piece of equipment, it will be in a standard form that the applications above would be able to consume and then generate actionable reports on."

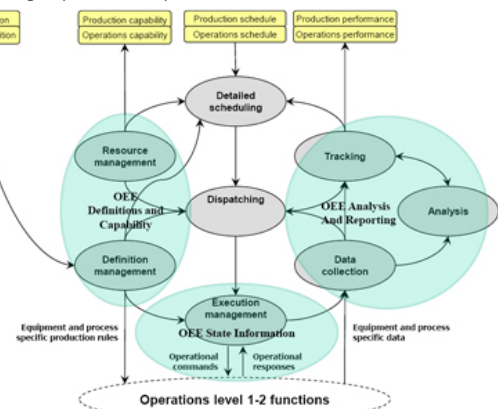
And why has that information not been readily available in the past?

"Mainly because there's too many one-offs," says Weiss. "Each control vendor tends to do their own thing to such an extent that vital information is simply not available. Then you have to have somebody go in and develop it at the control layer and configure that information within some system that would track or report on OEE type information."

What it all comes down to, says Weiss, is that there has been a dramatic shift in our understanding of the information packaged goods manufacturers need and when they need it.

"It's a different way of looking at where problems really are and how quickly they can be addressed," says Weiss. "In the past people would have a team conduct an audit of a manufacturing operation. But it's no longer acceptable to capture information throughout the day and then enter it into a spread sheet that night or the next day. That time lag leads to efficiency losses you can never recover."

The diagram shown here, says Weiss, illustrates the correlation between the OEE footprint and the generic ISA-95 MOM.


NEW AUTOMATION PRODUCTS
Machine controller hardware/software updates

Yaskawa Electric America has added MotionWorks IEC Pro and MP2310iec to their MotionWorks IEC and MP2000iec product series. MotionWorks IEC Pro is a new Integrated Development environment based on the IEC61131-3 international programming standard. Built upon the same code as MotionWorks IEC Express software, the Pro version allows users to program in Sequential Function Chart language, configure projects with up to 16 tasks, and support all of the MP2000iec controller ... [Read more](#)

DC power supply

B&R's DC power supply can be used internationally because of its large supply voltage range of 3 x 380-500 VAC. Output voltage range covers 36 to 80 VDC. An

Software for interface modules

To simplify device set-up and installation time, Turck's interface modules (IM) can be programmed via a PC or on-board push buttons using FDT/DTM software, along with PACTware. This software allows multiple parameters to be set and saved in seconds. Facilitates asset management with trending and data logging of values in a variety of applications. IM models monitor motor speed, shaft speed and conveyors, as well as the temperature of RTDs and... [Read more](#)

Metal-mount RFID tags

Balluff's direct metal-mount or "M-M" RFID system provides track-and-trace capability to any manufacturing, assembly or closed-loop logistics process using a non-contact, ISO 15693 compliant passive data carrier

... Range covers 0 to 24 VDC. The additional 24 VDC output supplies other automation components with current requirements up to 2 A. The power supply provides an extensive range of settings and error diagnostics. Status information can be read at any time via a fieldbus connection, allowing evaluation of the load, output ... [Read more](#)

... compliant passive data carrier technology. This new technology allows the RFID "tag" to be mounted directly on any alloy or metal surface without the typical interference or loss in range. The tags offer a range of 52mm to 65mm. Designed to operate in temperatures ranging from -25°C to as high as 130°C for up to 1000 hours of continuous, idle exposure... [Read more](#)



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