The ISA95 Standard Expands its Horizon
Integration of all manufacturing activities now within reach
Why the COO can’t sleep…

- Which plant?..... All plants!
- Cost of quality => quality department...?
- Safety => maintenance department ...?
- Compliance => compliance officer...?
- Energy costs => Utilities generation...?
- Inventory costs => Warehouse department...?
- ...etc...
  It’s all connected!
ISA-95 is not only about Production anymore. It’s about Manufacturing...
Equipment ↔ Physical Asset
Mixed Operations Schedule

Operation Request
mixed

Segment Requirement
Mixed

Material Spec
Being moved from
Raw Material dispensing
From Warehouse
to production area
Inventory Operations

Material Spec
Being moved to
Material Spec
Contributing
Production
Equipment Spec
Machine allocated
To production
Production Operations

Material Spec
Consumed
Material Spec
in incorporated
Material created

Material Spec
Being produced
Material
being created

Material Spec
Being tested
Sample and
QA results
Quality Operations

It’s all connected!

But not necessarily in 1 monolith system
New:
ISA-95 part 4

Operations level 1-2 functions

Legend
Defined in Part 2
Defined in Part 3
Defined in this Part
Defined in other standards

Class Workflow Specification Model
Workflow Specification
Workflow Specification Node
Workflow Specification Connection
Workflow Specification Node Property
Workflow Specification Connection Property
Workflow Specification Connection Type
Workflow Specification Connection Defined by
Workflow Specification Connection Used by
Workflow Specification Node Type Property
Workflow Specification Connection Type Defined by
Workflow Specification Connection Type Can have
Workflow Specification Connection Type From
Workflow Specification Connection Type To
Class Work Alert Model
Work Alert Definition
Work Alert Property
Work Alert Definition Property

Class KPI Model
KPI Definition
KPI Property
KPI Value

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Example from part 4

Summary

- It’s not just about MES; all manufacturing activities contribute to a business’ results
- Instead of the old ERP days. We’re not moving towards 1 monolithic manufacturing system;
  - Today it is SOA, web services
  - Best of breed solutions with (ISA95) standardized interfaces
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