### **OPC UA for ISA-95**

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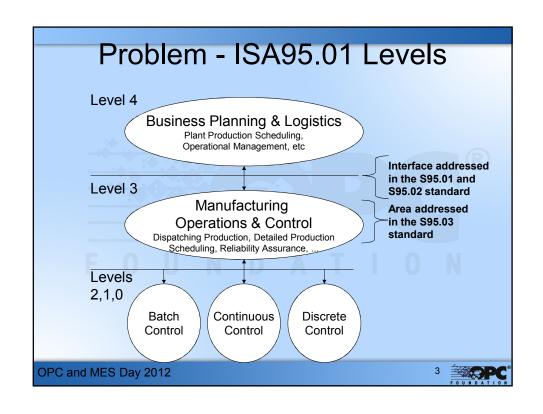
#### **₽**

#### Information Model -ANSI/ISA 95

- The ANSI/ISA 95.00.01 "Enterprise Control System Integration - Part 1: Models and Terminology"
  Also IEC 62264
- ANSI-ISA 95.00.02 "Part 2: Object Attributes"
- ANSI/ISA 95.00.03 "Part 3: Models of Manufacturing Operations"
- (Draft) ANSI/ISA 95.00.04 "Part 4: Objects and attributes for manufacturing operations management integration
- ANSI/ISA 95.00.05 "Part 5: Business to Manufacturing Transactions"

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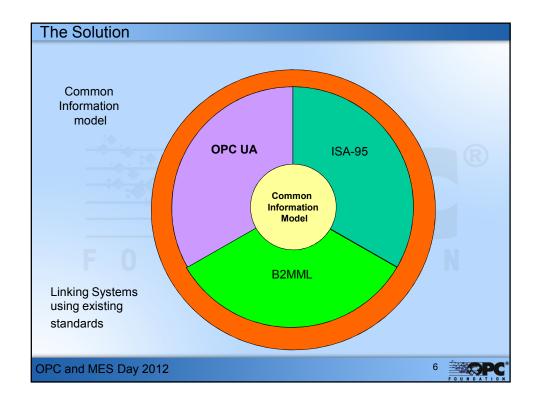


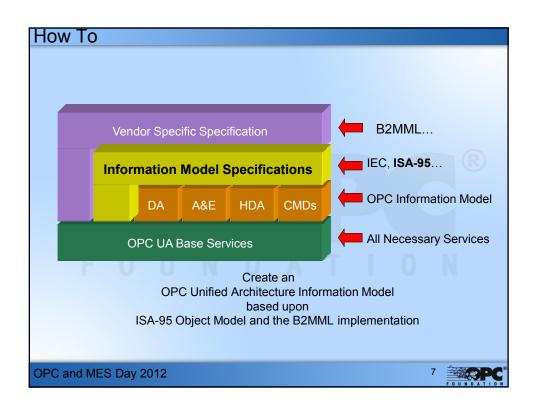
# **Existing Interface**

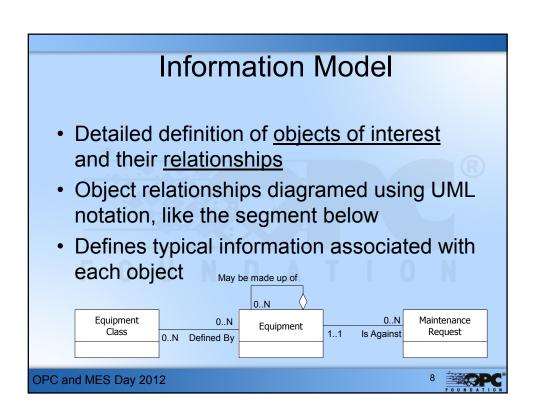
- B2MML interface
  - Batch Data Updates
  - Not RealTime
  - XML Based
- Desired
  - Faster Updates
  - Access to lower levels

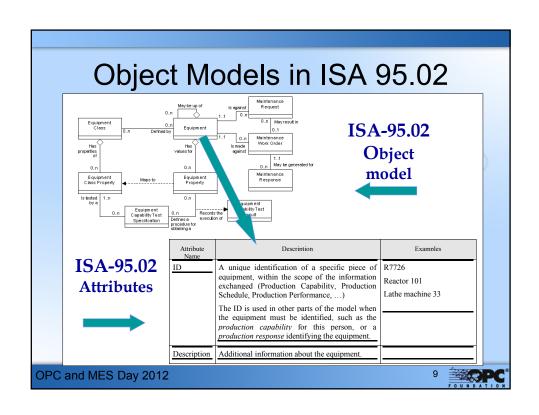
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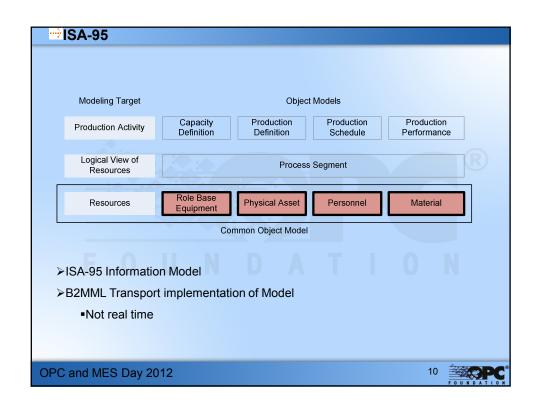
5 OPC











## Part 2 - 5x4 Object Models

- Five categories of resources
  - Personnel
  - Equipment
  - Physical Assets
  - Material (and Energy)
  - Process Segments
- Four Process, Product, & Production Models
  - Capability & Capacity Definition
  - Product Definition
  - Production Schedule
  - Production Performance

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