Industrie 4.0

Smart Manufacturing Leadership Coalition

Industrial Internet of Things
What is a “Thing” in the Industrial Internet of Things?
Hierarchy of Things
According to ANSI/ISA-88.00.01-2010

Source: ANSI/ISA-88.00.01-2010 Batch Control Part 1: Models and Terminology

“Machinery”
Optimization of Machinery Information

Machine-to-Supervisory Control

Coordinated Machine Sections
Benefits of a Standard Method for Machinery-to-Supervisory Information Exchange

- For machine builders, optimization of machinery integration (OMI™) will create additional value through simplified communication from machines to supervisory systems such as SCADA and MES.
- By transforming data into information, OMI will:
  - Provide tools for dynamic decision-making to maximize machine productivity and improve machine performance
  - Enhance maintainability of machinery assets
  - Create more value from machines

OMI will emerge as a natural sweet spot to help manufacturers meet their overall business objectives, including workforce, profitability and sustainability goals.
What ODVA is Doing About It

• White paper “Machinery Information Base Data Structure” presented at the conference and soon to be available online

• Machine-to-Supervisory
  – Mapping of data structures into CIPSE’s for CIP Object definition
  – Cooperating with OPC Foundation to map data structures into OPC-UA
  – Cooperating with sercos international to mapping data structures into Sercos

• Integration of other Object Models
  – Energy extended object with Energy SIG members
  – Condition Monitoring extended object

• Setup a model for Machine-to-Machine integration
Thank you!