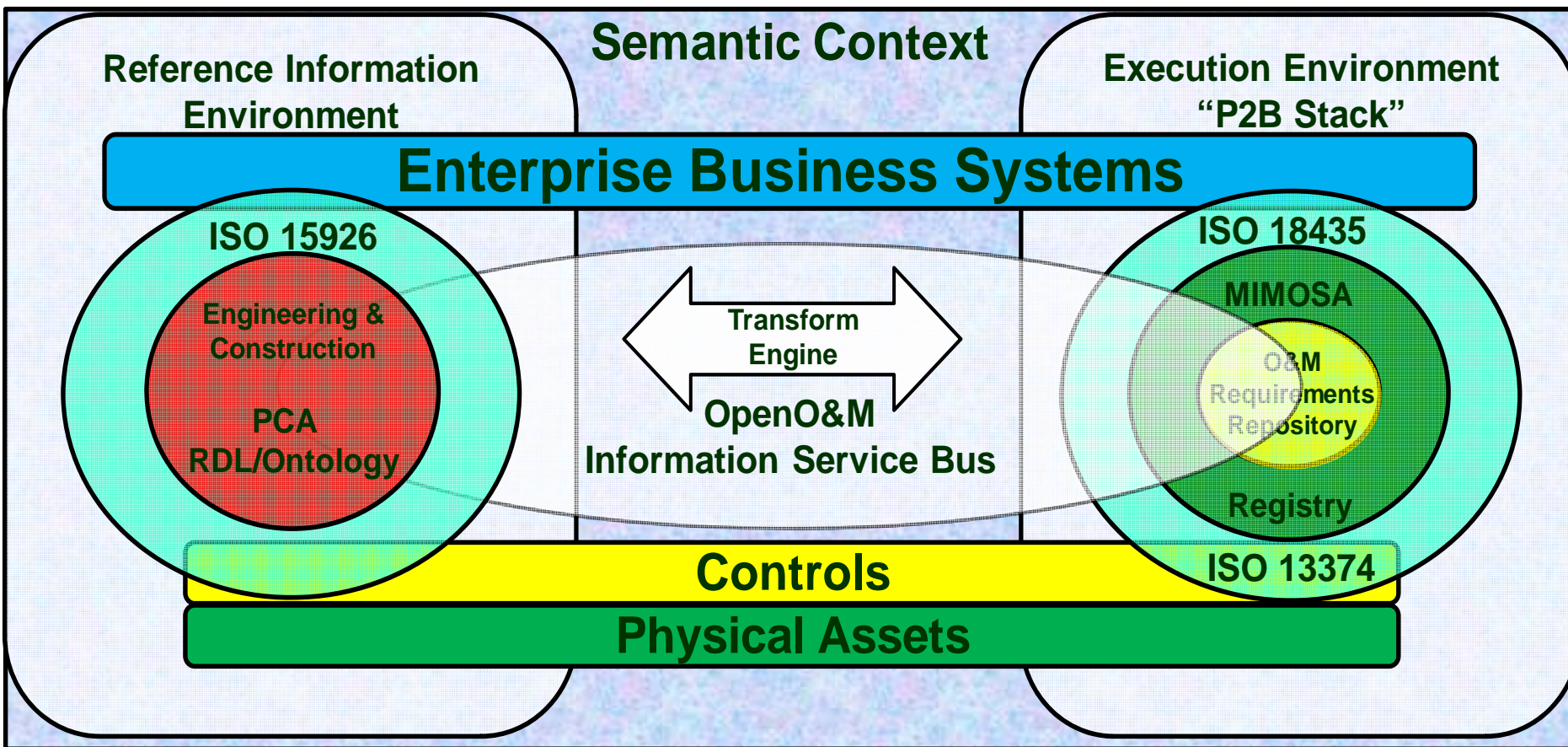




# Context for Collaboration



# MIMOSA Summary

- Officially organized as a 501 c(6) non-profit industry association in 1997
- Funded by membership and event fees
- Membership
  - ✓ Owner/Operators – Oil and Gas, Chemical, Military
  - ✓ Academia/Researchers
  - ✓ Suppliers/integrators
  - ✓ Industrial Media
- Founding Member OpenO&M Initiative
- Key standards and specifications
  - ✓ MIMOSA Open Systems Architecture for Enterprise Application Integration (OSA-EAI)
  - ✓ MIMOSA Open Systems Architecture for Condition Based Maintenance (OSA-CBM)
  - ✓ OpenO&M Information Service Bus Model (ISBM)
  - ✓ OpenO&M Common Interoperability Register (CIR)
- Joint MIMOSA/PCA Special Interest Groups (O&M and IT Architecture)
- Long history of managing interoperability initiatives
- Oil and Gas Interoperability (OGI) Pilot
- OpenO&M Owner/Operator Leadership Council

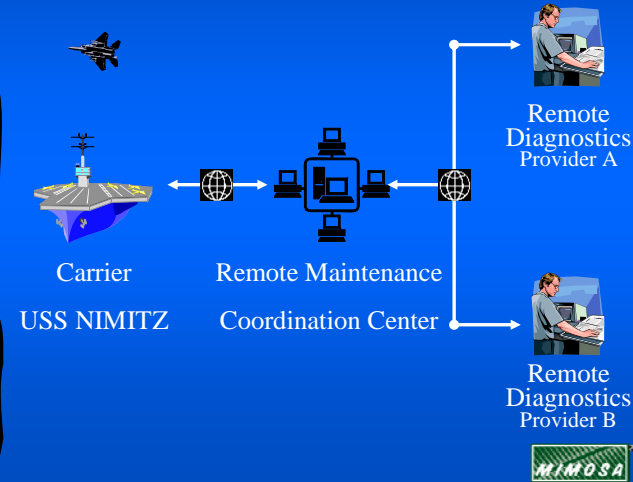


# OSA-CBM Dual Use Technology Program - Office of Naval Research

## MIMOSA Information Network (MIN)

June 21, 2000  
 MIN-Viewer  
 OSA-CBM Presentation  
 Alan T. Johnston  
 MIN Project Director

## The OSA-CBM MIN Demonstration Concept



## MIN-Viewer Segment Navigation 1

The screenshot shows the MIN-Viewer Segment Navigation 1 interface. The browser window displays a navigation tree on the left and a grid of buttons for various system components. The buttons are labeled with numbers and descriptions:

Number	Description	Work Completed	Measurements
000	General Guidance & Administration	GRP 000 GUID & ADMIN	GRP 100 HULL STRUCT
100	Hull Structural Bulkheads	GRP 100 HULL STRUCT	
400	Command & Surveillance	GRP 400 COMM & SURV	GRP 500 ALDGL
600	Outfit & Furnishings	GRP 600 OUT & FURNISH	
900	Ship Assembly & Support Services	GRP 900 ASSEM & SUPP	GRP 000 MARGINS
F00	Loads	GRP F00 LOADS	
M00	Margins	GRP M00 MARGINS	

User Interface Modeled On The Microsoft Windows Explorer



# Army Collaborative Telemaintenance – Army CECOM

## U.S. Army CECOM Collaborative Telemaintenance Project

Phase I Demonstration Briefing – July 31, 2002

Alan Johnston – MIMOSA

Kenneth Bever – MIMOSA

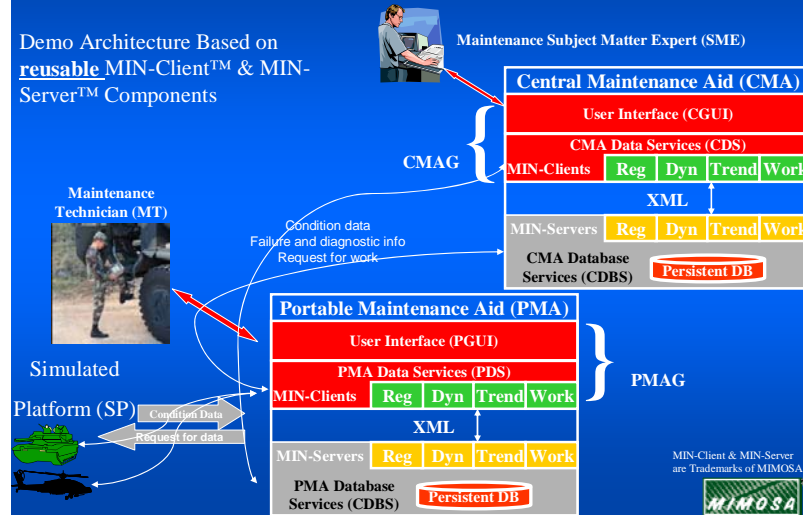
Bob Walter – Penn State ARL



## U.S. Army Collaborative Telemaintenance Demonstration

Revised 07/03/2002 – Phase I Demonstration

Demo Architecture Based on reusable MIN-Client™ & MIN-Server™ Components



MIN-Client & MIN-Server are Trademarks of MIMOSA



## CMA Showing Measurement Events In Alarm

CMA Main Page

Navigation Details Events

Max Alarm	Type	UTC Time	Value	Eng Unit	Scaling
0	Magnitude	2001-11-26T11:00:00.0000000	0.009400887	Spectrum Ampl.	RMS
0	Magnitude	2001-11-26T11:00:00.0000000	0.017452496	Spectrum Ampl.	RMS
0	Magnitude	2001-11-26T11:00:00.0000000	0.009027663	g's Acceleration	RMS
0	Magnitude	2001-11-26T11:00:00.0000000	1.036288911	Unitless	RMS
0	Magnitude	2001-11-26T11:00:00.0000000	0.984841839	g's Acceleration	RMS
0	Magnitude	2001-11-26T11:00:00.0000000	0.9	Unitless	RMS
0	Magnitude	2001-11-26T11:00:00.0000000	1.063	Unitless	RMS
0	Magnitude	2001-11-26T11:00:00.0000000	1.013748006	Unitless	RMS
1	FFT	2002-07-16T11:00:00.0000000		Hertz (Units Pa)	Peak
8	FFT	2001-11-26T11:00:00.0000000		Hertz (Units Pa)	Peak
8	FFT	2001-11-26T11:00:00.0000000		Hertz (Units Pa)	Peak
8	FFT	2001-11-26T11:00:00.0000000		Hertz (Units Pa)	Peak
8	FFT	2001-11-26T11:00:00.0000000		Hertz (Units Pa)	Peak
8	FFT	2001-11-26T11:00:00.0000000		Hertz (Units Pa)	Peak
8	FFT	2001-11-26T11:00:00.0000000		Hertz (Units Pa)	Peak

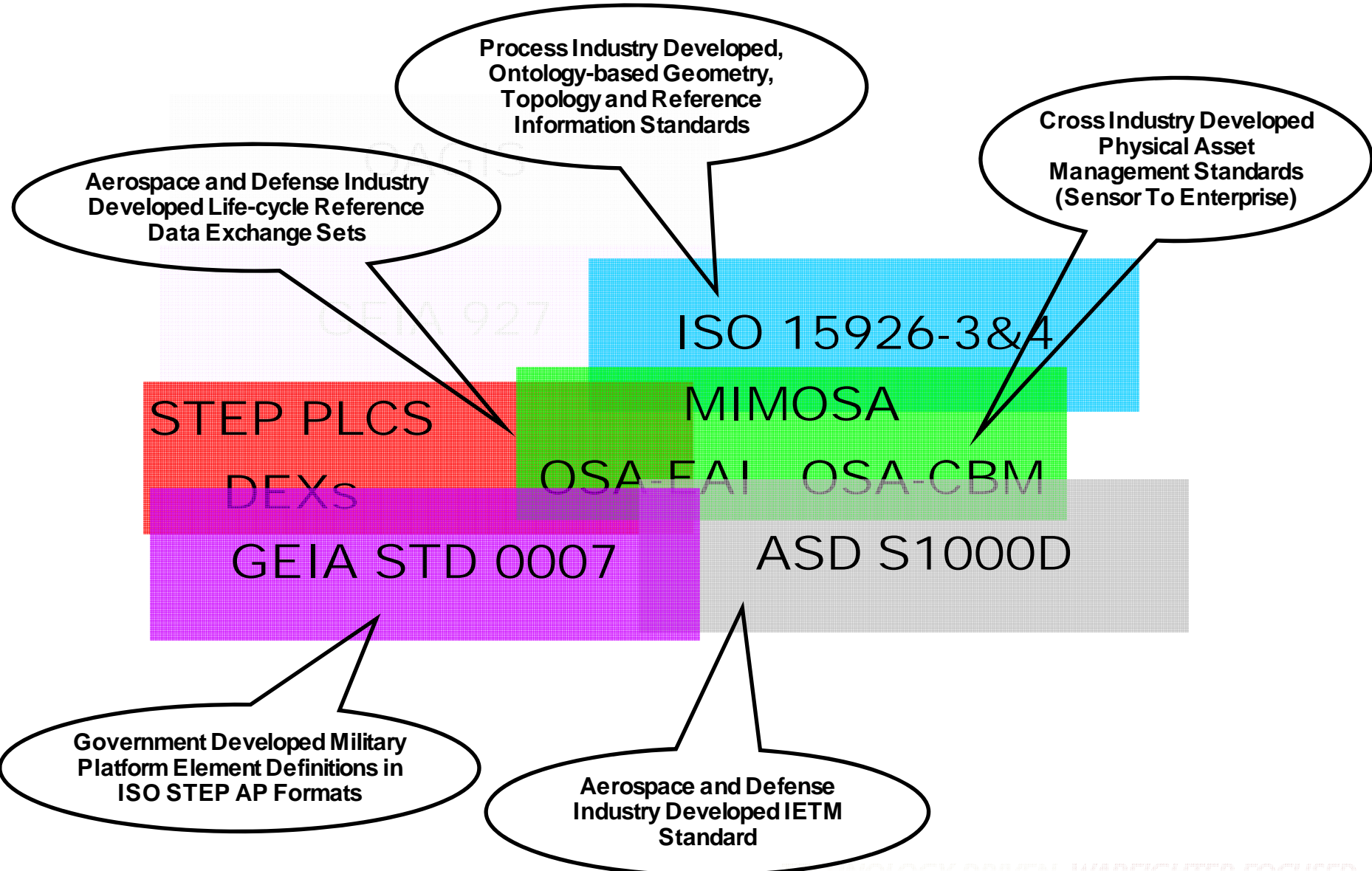
Work requests

Work Request ID	Date	Priority Code	From	Type
100	2002-07-30T16:13	7	David McClard	Maintenance
201	2002-07-31T11:03	0	David McClard	Maintenance, Corre...
302	2002-07-31T11:10	0	David McClard	Maintenance





# Platform Life-cycle Information Management Concept Mapping- Aerospace & Defense Industry



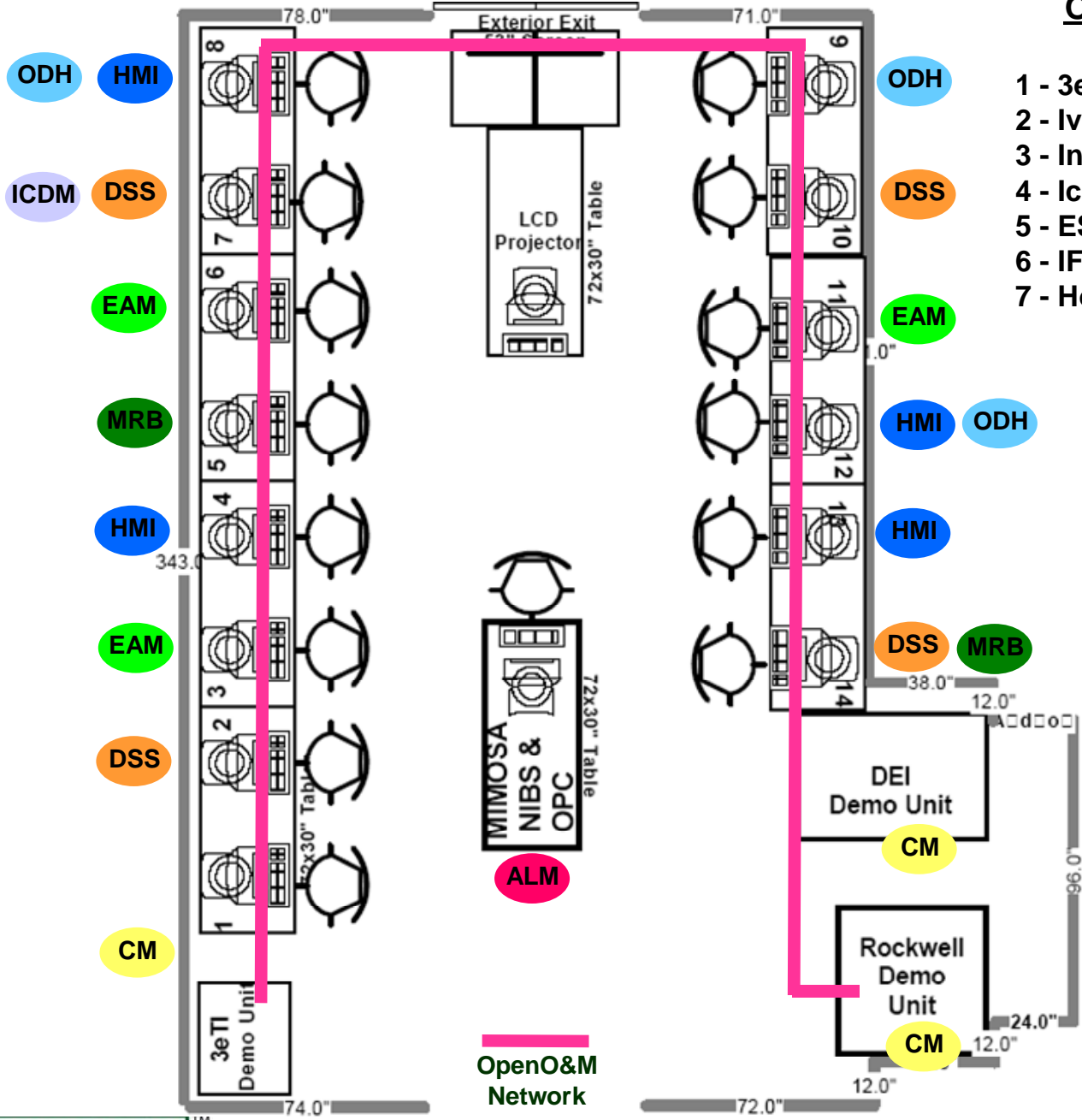


# Organization Legend

- |               |               |
|---------------|---------------|
| 1 - 3eTI      | 8 - AspenTech |
| 2 - Ivara     | 9 - Matrikon  |
| 3 - Indus     | 10 - PdMA     |
| 4 - Iconics   | 11 - Synergen |
| 5 - ESRG      | 12 - Yokogawa |
| 6 - IFS       | 13 - Rockwell |
| 7 - Honeywell | 14 - DEI      |

# Function Legend

- ALM** Asset Lifecycle Mgmt & Universal ID
- CM** Condition Monitoring
- ODH** Operational Data Historian
- HMI** Human-Machine Interface
- ICDM** Instrumentation & Control Device Management
- DSS** Decision Support System
- EAM** Enterprise Asset Management / CMMS
- MRB** Maintenance & Reliability Browser



**OpenO&M Network**

**December 2004**



# The OpenO&M™ Initiative

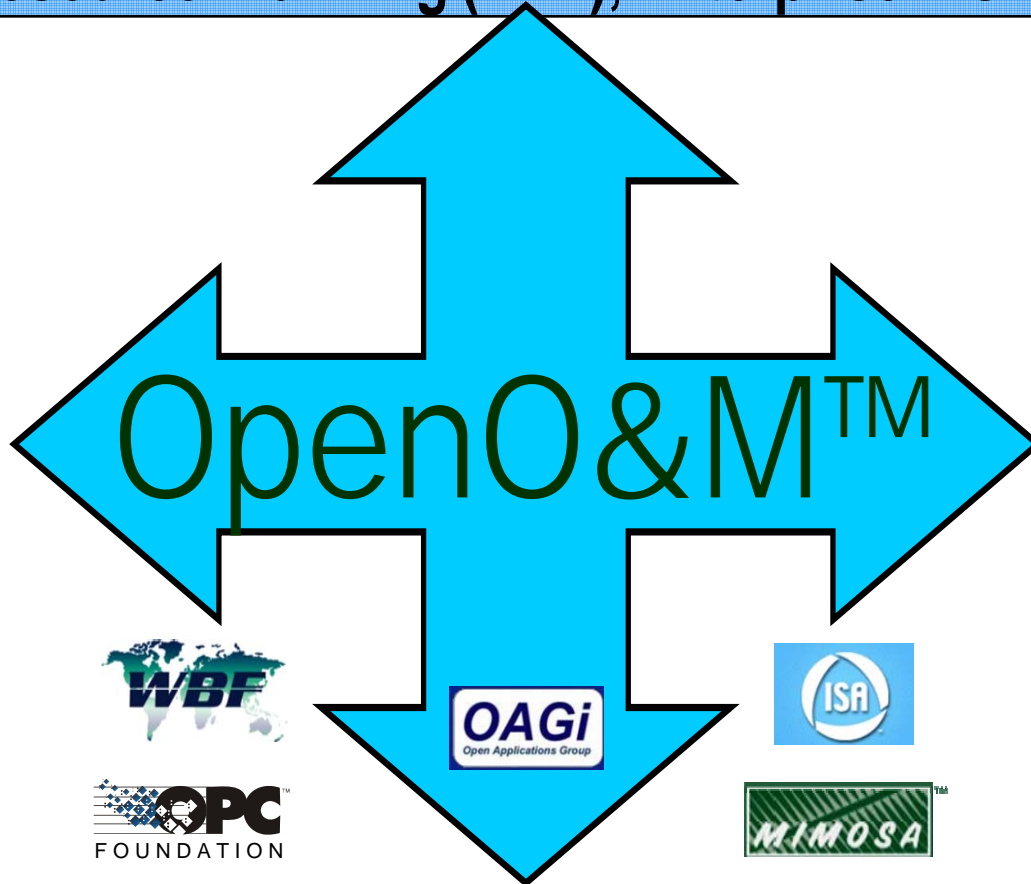
Brings People Processes and Systems Together

Enterprise Business Systems

Enterprise Resource Planning (ERP), Enterprise Risk Management

Operations

Maintenance



Physical Asset Control

Real-time Systems



## Global Collaboration

- Center for Integrated Engineering Asset Management (CIEAM)
- Energistics
- FIATECH
- MIMOSA/OpenO&M
- POSC Caesar Association



**Global cooperation between industry organizations to enable open standards-based interoperability for asset management through an industry-use case driven solutions process**

**ISO TC 184/WG 6**