

CRITICAL MANUFACTURING

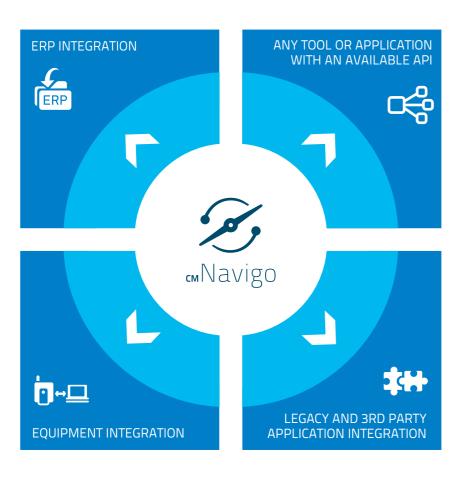
# MANUFACTURING EXECUTION SYSTEM

### Why MES?

Implementing a manufacturing execution and intelligence system provides users with a single, integrated view of enterprise data, improving decision-making around critical business and production processes. Coordinating enterprise systems like ERP, quality, and R&D with an MES enables manufacturers to reduce risk, simplify and automate processes and support continuous improvement.

## Why Critical Manufacturing?

CRITICAL Manufacturing provides manufacturers of complex, high tech discrete products, a manufacturing execution and intelligence system that empowers the organization to achieve its goals. It scales to mirror growing operational needs, drives visibility of production and costs across the supply chain, and is easy to implement on an existing infrastructure. As a result, our state-of-the-art products and services enable our customers to drive down cost, flexibly meet market demands, and ultimately achieve greater agility, visibility and reliability.



# Low Total Cost of Ownership Through reduction of all cost factors



#### ADMINISTRATION

Single IT stack, with powerful admin tools
Application admin through a unified GUI

#### MODELING

Rich, pre-customized object model

Modeling through the same GUI

Empowered end-users

#### INSTALLATION

Server side full installer ready in minutes

No client installation

#### **3RD PARTY LICENSES**

100% Microsoft Technology
No hidden costs

#### SOFTWARE

Scalable pricing model, based on size

Modular functionality

#### HARDWARE

Scalable HW based on needs
From single server to full fault-tolerant,
high-available configuration

# FROST & SULLIVAN

Critical Manufacturing is proud of its designation by Frost & Sullivan as a global value leader in the MES industry leader for its low total cost of ownership, features and ease of use.

Global Price Performance Value Leadership Award Report

META-DATA BASED INTEGRATION AND PRODUCTIVITY PLATFORM, EQUIPMENT AND ERP INTEGRATION

and message mapping.

time series, decision trees and neural networks.

ENGINEERING MULTI-SOURCE EXTRACTION, REPORTING

AND DATA MANIPULATION AND AGGREGATION

(SECS/GEM, OPC, PLC, File, Database, LIMS) with Navigo or other MES, including service

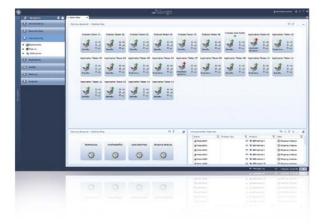
PRODUCT LIFE-CYCLE MANAGEMENT, PROCESS CONTROL AND QUALITY IMPROVEMENT MODULES

based on flexible contexts.

# Empowered end-users Next generation user experience

#### FACTORY MANAGEMENT





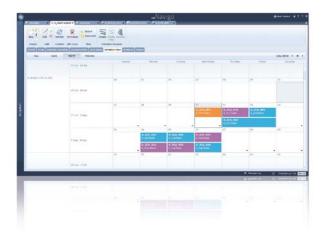
# ONLINE VISIBILITY ® TRACEABILITY..





#### **OPERATIONAL EFFICIENCY**





### QUALITY MANAGEMENT





#### FACTORY INTEGRATION



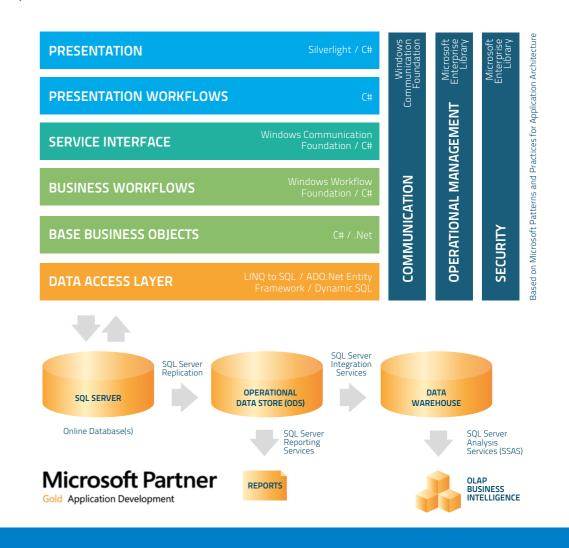


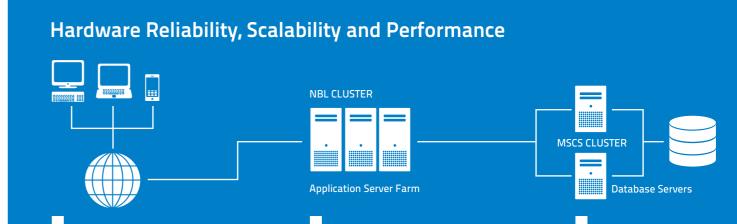
### OPERATIONS INTELLIGENCE





# Fully integrated modular system Flexible, scalable and extensible to all tiers





# Extensibility At all tiers

PRESENTATION TIER
Add ribbon actions
Create addins
New gui's

BUSINESS TIER
 Dynamic business rules
 Custom entities
 Custom services

Reports
Cubes
Data sources

### Manufacturing & R&D

America, Europe and Asia

### www.criticalmanufacturing.com contact@criticalmanufacturing.com



#### **Critical Group**

Provides business critical solutions across industries such as aerospace, defense and telecommunications, under stringent quality certifications like NATO and CMMI Level 5

#### Experience

Our engineers provide solutions for some of the most challenging MES green-field and migration projects world-wide. Their experience is at your service

#### Innovation

Our solutions address the most important industry challenges through cutting-edge innovative products and technologies

#### **Reference Customers**

- Semiconductors
- Solar
- Electronics
- Medical Devices
- Other industries





