



DR CONSULTING



Data Modeling & UNS Orchestration

Building the "Single Source of Truth" for Real-Time Enterprise Intelligence.

"We don't just connect systems;
we orchestrate a unified industrial consciousness."



The Hidden Cost of Disconnected Data

When machines, systems, and people speak different languages, the enterprise loses.

01

Data Silos

PLC and SCADA tags remain isolated — invisible to ERP, BI tools, and AI models. Decisions are made on stale or incomplete data.

02

Point-to-Point Integrations

Every new system requires a custom connector. Technical debt accumulates until the entire architecture becomes unmaintainable.

03

No Semantic Context

Raw tags like "Sensor_42: 85.5" mean nothing to a business analyst. Without context, data cannot drive actionable intelligence.

From Raw Tags to Real-Time Intelligence

01

Canonical Data Model (CDM)

We define a standardized "lingua franca" for your enterprise. Every data point — from a fuel sensor to a de-icing rig — is mapped into a universal format ensuring interoperability across all vendors and systems.

02

UNS Hierarchy Design

Structured per ISA-95 and Sparkplug B standards. We build a semantic hierarchy (i.e., Enterprise › Site › Area › Line › Cell) so any consumer — from a local HMI to a global AI model — can discover and subscribe to data without manual reconfiguration.

03

Semantic Orchestration

We transform "Sensor_42: 85.5" into "AeroCore_Fuel_Pump_01: Temperature_High." Raw MQTT and gRPC streams are contextualized with metadata, making every event immediately actionable for operators and decision-makers alike.

A Unified, Intelligent, and Scalable Enterprise

1 Plug-and-Play Scalability

New machines or vendors integrate in hours, not weeks — by "plugging" into the Namespace.

2 Single Source of Truth

Eliminates data drift between OT and IT. CEO dashboard = Operator HMI. Always.

3 Foundation for AI

Clean, structured datasets ready for predictive models and real-time analytics.

WHAT YOU RECEIVE

UNS Architecture Blueprint

Complete design of your UNS including broker config and hierarchy.

Canonical Data Model (CDM)

Standardized data structures ensuring interoperability across vendors.

Master Data Dictionary

Human-readable semantic definitions for every tag in your ecosystem.

Edge-to-Cloud Integration

Secure up/down-streaming logic from shop-floor sensors to cloud.

B2MML Integration Packages

Pricing: Custom | Depending on Project Scope



DR Consulting

Digital Strategy & Process Transformation

Accelerating Industrial Enterprise Modernization

NEXT STEP

Let's Architect Your Future

Ready to transform your industrial operations?
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