



## Jean Vieille

### ISA-88 / ISA-95 / MES-MOM / IT/OT interoperability expert

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I help industrial leadership teams, project teams, system integrators and consulting firms clarify, frame, secure or recover their MES, MOM, ERP-to-plant, automation, batch, IT/OT, UNS and industrial digital transformation projects.

My role is to clarify models, responsibilities, flows, interfaces, business objects and master data before they become costly project risks.

[Contact me](#) [View my LinkedIn profile](#)



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### When should you involve me?

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MES and IT/OT projects rarely drift for purely technical reasons. Difficulties often arise because the boundaries between ERP, MES, SCADA, automation, operations and industrial data have not been sufficiently clarified.

#### Before a project

Reviewing specifications, challenging an architecture, clarifying the MES/MOM scope or preparing a request for proposal.

#### During a project

Helping the team structure business objects, interfaces, application responsibilities, flows and master data.

#### When a project drifts

Identifying conceptual, functional or organizational ambiguities that slow down progress or weaken the solution.

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### Services offered

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**Short, focused and directly actionable interventions:** diagnostic review, critical assessment, functional framing, expert support or project team training.

- Critical review of MES / IT-OT projects
- ISA-95 / MES-MOM / ERP-to-plant functional framing
- Functional specification of ERP / MES / SCADA interfaces
- Structuring of messages, transactions and business objects
- ISA-88 / batch / industrial modularity expert support
- In-company training on ISA-88, ISA-95, MES-MOM and IT/OT
- Targeted support for consulting firms, integrators or project teams
- Recurring advisory support: supervision, review, coaching and method transfer

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### Industrial modelling, ontologies and AI-ready data

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Industrial AI, UNS, digital twin and advanced interoperability projects require more than available data. They require data that is understandable, contextualized and connected to the objects, activities, events, resources, states and decisions of the industrial enterprise.

**I help teams structure their domain models, reference models, vocabularies, knowledge graphs and industrial**

**ontologies in order to make data more coherent, interoperable and usable by digital systems and AI.**

- Clarification of industrial business objects, relations, events and quantities
- Alignment between shop-floor models, MES/MOM, ERP, industrial data and UNS architecture
- Semantic preparation of data for AI, knowledge graphs and domain assistants
- Consistency diagnosis across reference data, models, interfaces and operational data
- Support for the design of pragmatic and usable industrial ontologies
- Use of ISA-88, ISA-95 and existing domain models as semantic foundations

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## **Training and method transfer**

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Training sessions can be adapted to your context: MES project, ERP-to-plant migration, IT/OT architecture, batch, interoperability, industrial performance or digital transformation.

### **ISA-88 / IEC 61512**

Functional design, physical, procedural and process models, batch, modularity, robustness and qualification.

### **ISA-95 / IEC 62264**

MES-MOM, IT/OT interoperability, business objects, transactions, messages, ERP-to-plant interfaces and B2MML.

### **Industrial transformation**

Systems thinking, performance, industrial architectures, master data, gradual migration and organization.

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## **Rare experience spanning industry, standards, field practice and modelling**

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Fifty years of professional involvement in industrial systems: process control, automation, MES, industrial IT, functional architecture, ERP/MES integration, interoperability and digital transformation.

This field experience has been extended through R&D work on industrial systems modelling, domain ontologies, UNS, knowledge graphs and semantic data preparation for AI.

My profile combines strong industrial experience, deep practical knowledge of ISA-88 / ISA-95 / B2MML standards, and a broad technical culture ranging from functional architecture to software prototyping and Linux/Docker operations.

My contribution is to connect operational realities, industrial standards, domain models, data and digital systems in order to make architectures more coherent, interoperable and usable.

ISA-88IEC 61512ISA-95IEC 62264B2MMLMESMOMIT/OTBatchInteroperabilityUNSIndustrial ontologiesKnowledge graphsAI-ready dataSystems modelling

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## **Discuss a project**

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Are you preparing, launching, auditing or recovering a MES, MOM, ERP-to-plant, automation, batch or IT/OT project?

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SyntropicFactory — consulting, training and R&D by Jean Vieille.

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