

Building a Standardized Digital Production Model for a Global Plastic Products Manufacturer



With SAP Digital Manufacturing Cloud and Edge

A global plastic packaging manufacturer set out to **modernize its manufacturing operations** and move toward a unified, data-driven production environment. The company was operating with a custom-built MES solution on SAP MII, which is approaching end of mainstream maintenance in 2027.

To support its next phase of growth, the manufacturer selected SAP Digital Manufacturing integrated with SAP S/4HANA 2022 Private Cloud Edition as its strategic production platform. The goal was to establish a **standardized SAP DM Cloud and Edge** model for one facility, then replicate the approach across other global sites.

RTS was selected to guide the SAP DM implementation using fit-to-standard practices, support the SAP DM Cloud and Edge architecture, and help the customer build internal capability for long-term ownership and rollout.

Modernizing production execution across global manufacturing operations.

The Challenge

RTS was engaged to support a SAP DM program that could:

1. Establish a **standardized** SAP DM Cloud and Edge foundation
2. **Integrate** SAP DM with SAP S/4HANA, SAP BTP, CPI, PCo, and OPC systems
3. Support **production execution** through operator dashboards and standard PODs
4. **Enable** OEE, KPI reporting, and production visibility for management teams

Additional requirements included:

- **Legacy MES Transition:** The existing SAP MII-based solution needed to evolve toward a future-ready SAP DM model.
- **Global Rollout Readiness:** The first deployment had to create a repeatable template for additional manufacturing sites.
- **Shop Floor Connectivity:** The solution required integration with PCo and OPC systems for equipment data acquisition.
- **Operational Visibility:** The customer needed dashboards, OEE reporting, and KPI visibility across production.
- **Self-Sufficiency:** Internal teams needed guidance, documentation, and knowledge transfer.

+30 Years of
experience

Over **500**
satisfied clients

Over **3,000**
projects executed

RTS supported the customer with a **fit-to-standard** *SAP Digital Manufacturing* implementation designed to establish a scalable baseline for **production execution, reporting, and future rollout**.

The engagement included SAP DM tenant configuration, standard POD development, CPI integration support, data mapping with shop floor systems, and SAP DM Cloud and Edge enablement.

RTS also advised on SAP DM Cloud and Edge architecture, reviewed connectivity systems, supported functional design, validated production and quality process design, and helped define reporting and OEE requirements. The implementation included work across S/4HANA, CPI, BTP, SAP DM, PCo, and OPC connectivity layers.

The project was structured as a 16-week implementation wave, covering discovery, design, build, integration, testing, deployment, stabilization, and knowledge transfer.

RTS helped the customer move from a custom MES environment toward a standardized SAP DM foundation built for **repeatability, visibility, and long-term support**.

Key Benefits

- **Standardized SAP DM Foundation:** Established a SAP DM Cloud and Edge model designed for replication across global manufacturing sites.
- **Improved Production Execution:** Delivered standard PODs to support order execution, quality activities, and work instructions.
- **Shop Floor Integration:** Supported connectivity across SAP S/4HANA, SAP BTP, CPI, PCo, OPC, and shop floor systems.
- **Real-Time Visibility:** Enabled SAP DM Insights, OEE design, KPI dashboards, and management reporting.
- **Business Continuity Planning:** Included SAP DM Edge enablement to support resilient production operations.
- **Knowledge Transfer:** Provided documentation, validation, and enablement to help the customer become self-sufficient in managing and expanding SAP DM.

RTS SAP DM Cloud and Edge Implementation

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