Global Data Orchestrator

Centralizes master data at one site and automates its distribution across environments, supporting CoE topologies and dev-to-production promotion.

Overview

The Global Data Orchestrator is a Software as a Service (SaaS) provided by Critical Manufacturing that connects to all MES instances (including development and staging) of an organization. That enables any site to create master data changes and distribute them to any set of sites following a predefined Deployment Plan. The Deployment Plan defines the sequence and parallelism of the deployment and each site can be configured to have a manual or automatic approval and deployment.

Changes are bundled together into Change Packages. A Change Package contains all the changes (objects, tables, etc.) that are intended to be distributed together. Multiple users can contribute to a Change Package. Using meta-data, the system will automatically look for and include automatically object dependencies in the Change Package. For example: a Flow includes Steps and other Flows. Instead of adding each referenced Flow and Step manually, the system will include the objects automatically. Users will remain in full control, and have very fine granularity in deciding which objects to include or not in a Change Package.

Another core concept is the synchronized object. A synchronized object is an object that is maintained only at a central instance and then its distributed automatically to multiple sites. The sites that receive the object are not allowed to modify that object. The system provides flexibility to allow the receiving sites to modify specific properties.

The Global Data Orchestrator is then ideal for organizations that want to deploy a Center of Excellence (CoE) model where a central location is responsible for managing and evolving a baseline model that is later distributed to other sites. The Global Data Orchestrator is also very helpful when promoting changes from a development to staging, and from staging to production environments.

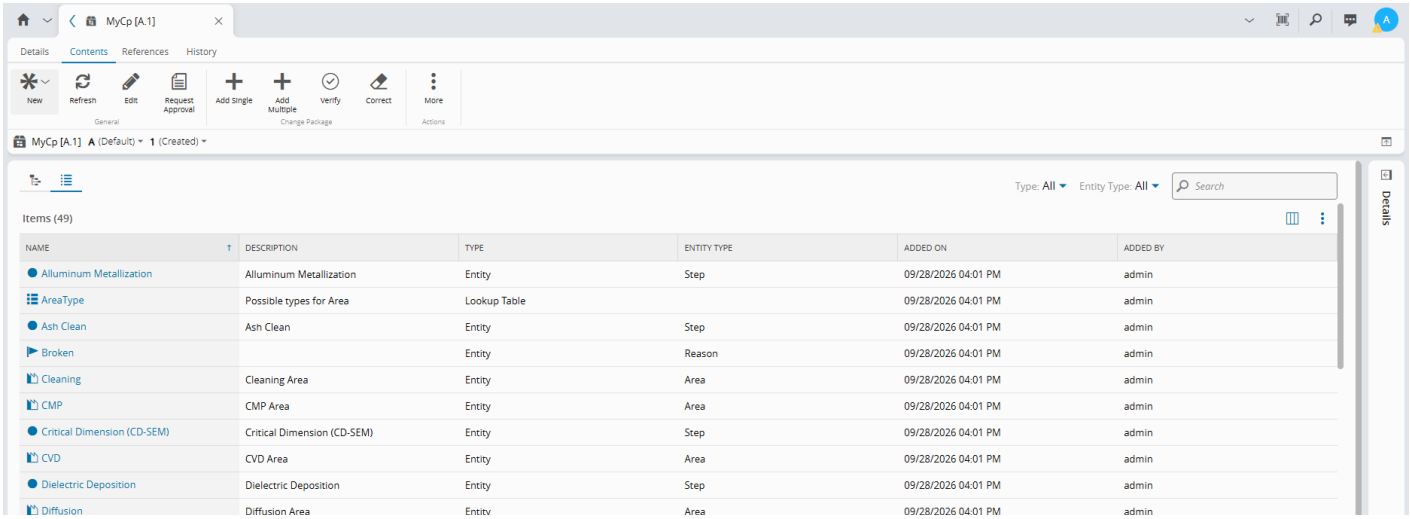


Figure 1 Change Package example

Critical manufacturing 12

Disclaimer · The information contained in this document represents the current view of Critical Manufacturing on the issues discussed as of the date of publication. Because Critical Manufacturing must respond to changing market conditions, it should not be interpreted to be a commitment on the part of Critical Manufacturing, and Critical Manufacturing cannot guarantee the accuracy of any information presented after the date of publication. This document is for informational purposes only. Critical Manufacturing makes no warranties, express, implied or statutory, as to the information herein contained.

contact@criticalmanufacturing.com · **www.criticalmanufacturing.com**

Key Features

- Ability to include objects and their dependencies automatically in a Change Package
- Ability to prevent centrally owned objects from being modified locally and with the capability of defining which properties can be modified locally
- Ability to define multiple Deployment Plans with the option to perform manual or automatic approvals and deployments
- Support for deployments across different product versions, with the Global Data Orchestrator taking care of the conversions (when the conversions are possible)
- Provides visibility and transparency about the deployment status for each package and for each site

Benefits

- Centralized master data management, facilitating reuse and deployment of company standards and best practices
- Automated, faster, less error prone deployments and updates

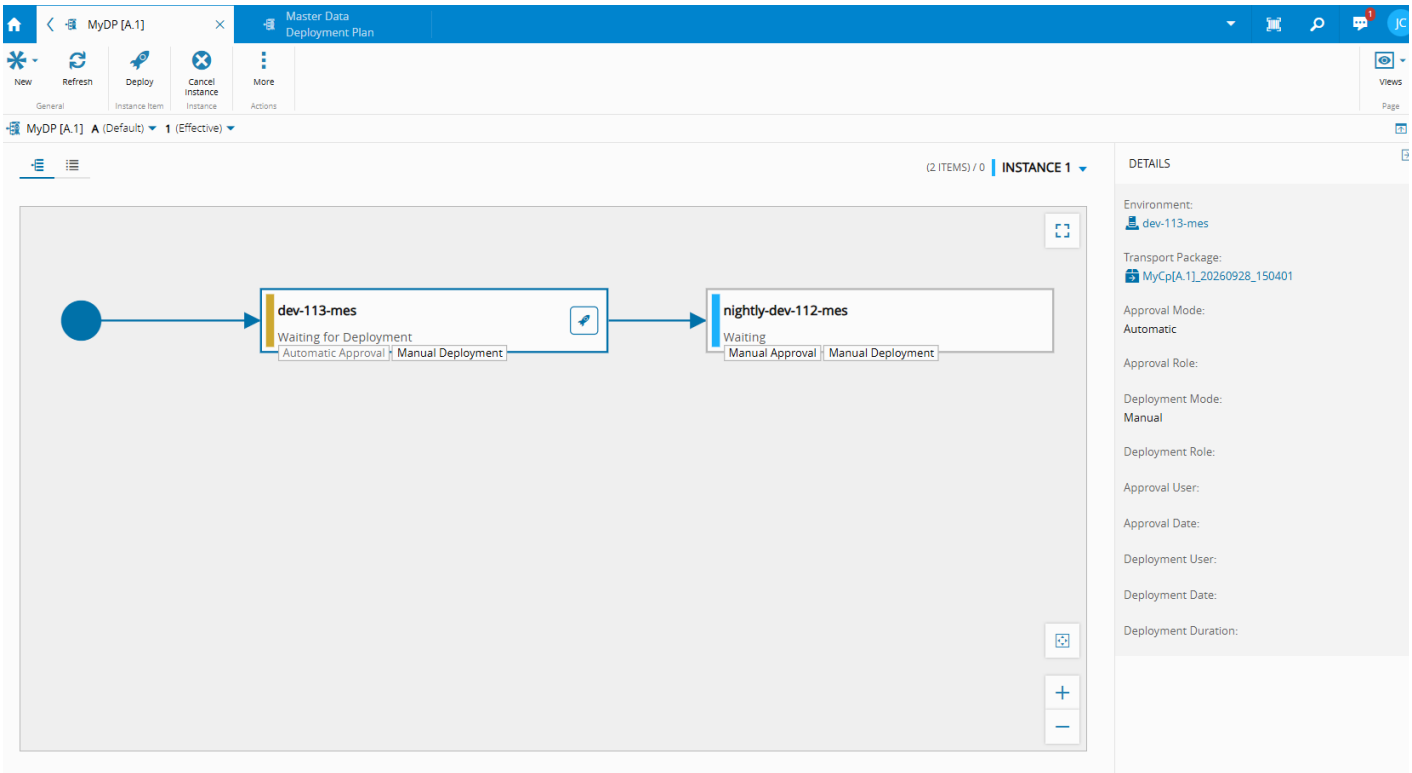


Figure 2 Deployment Plan Instance example

Disclaimer · The information contained in this document represents the current view of Critical Manufacturing on the issues discussed as of the date of publication. Because Critical Manufacturing must respond to changing market conditions, it should not be interpreted to be a commitment on the part of Critical Manufacturing, and Critical Manufacturing cannot guarantee the accuracy of any information presented after the date of publication. This document is for informational purposes only. Critical Manufacturing makes no warranties, express, implied or statutory, as to the information herein contained.

contact@criticalmanufacturing.com · **www.criticalmanufacturing.com**