



Remote Shipping

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Remote Shipping

Estimated time to read: 4 minutes

The Remote Shipping functionality is associated with the **Material** and **Container** entities. Its usefulness is visible when there is a need to move or ship **Materials**, and sometimes their **Containers**, from one site to another.

Note

The sites that you use must be connected to each other.

This document will guide you through the setup and usage of the Remote Shipping functionality.

Overview

Remote Shipping comprises sending **Materials**, and optionally their **Containers**, from one Critical Manufacturing MES instance to another. Critical Manufacturing MES supports **Material** and **Container** loops, in other words, **Materials** and **Containers** that are shipped and then returned to the original sending system.

The remote shipping process uses an Integration Entry mechanism through a generic Integration Handler, which is configured to handle Integration Entries with messages related to remote shipping and acknowledgement through the **Process Remote Material Shipment** DEE action (provided out of the box).

Info

For more information, see [MES Integration](#).

Remote Shipping Material

The remote shipping material process works in the following manner:

1. You must ship the material in Critical Manufacturing MES (similar to the local shipping process).
2. The local Critical Manufacturing MES triggers a new Integration Entry with InTransit **Material**, and optionally **Container**, information.
3. The Integration Entry at the source triggers a new Integration Entry in the target system through a web API based on the remote site information.

Remote Receiving Material

The remote receiving material process works in the following manner:

1. The target Critical Manufacturing MES system reads the information from its Integration Entries. It then creates a temporary remote export object with the **Material**, and optionally **Container**, information.
2. In the Facility View you select a **Material** from the Remote field of Materials to Receive and then select **Receive** on the top ribbon.

3. The **Receive** operation will create a **Material**, and optionally **Container**, for its own remote export object and will trigger an acknowledgement message for the source system by using the Integration Entries mechanism.
4. The source system will receive and terminate the **Material**, and optionally **Container**, when it processes the acknowledgement message.

Configuring Remote Shipping

To configure remote shipping between two Critical Manufacturing MES instances, follow the information below.

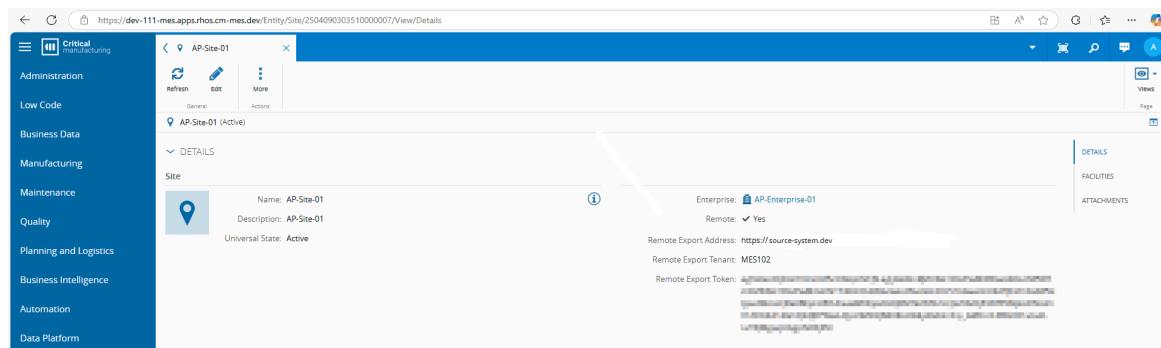
For the purpose of this tutorial, the following environments were used:

- <https://source-system.dev>
- <https://target-system.dev>

Target System

Ensure that the remote shipping infrastructure is up and running and that there is connectivity between the two different sites. This should include network, firewall and security.

Configure the **Site** for the source system (example: AP-Site-01) according to the [Configure Remote Site](#) instructions:



The screenshot shows the Critical Manufacturing MES application interface. The left sidebar lists various modules: Administration, Low Code, Business Data, Manufacturing, Maintenance, Quality, Planning and Logistics, Business Intelligence, Automation, and Data Platform. The main content area is titled 'AP-Site-01' and shows the 'Site' details. The 'General' tab is selected. The site is named 'AP-Site-01' and described as 'AP-Site-01'. The 'Universal State' is 'Active'. The 'Enterprise' is 'AP-Enterprise-01'. The 'Remote' checkbox is checked. The 'Remote Export Address' is set to 'https://source-system.dev'. The 'Remote Export Tenant' is 'MES102'. The 'Remote Export Token' is a long, randomly generated string. The right side of the screen shows tabs for 'DETAILS', 'FACILITIES', and 'ATTACHMENTS'.

Tip

Remote Export Address - This is the URL address when you log on to the system (see the browser address bar).

Remote Export Tenant - Tenant name available on the address bar when you are in the login screen of the MES system.

Remote Export Token - Token created in the remote environment according to the [Creating Access Tokens for a User](#) instructions.

Create a local **Facility** to receive shipped **Materials** with no **Site** associated:

* Create Facility

GENERAL DATA

General Data

Name: AP-Facility-02

Description: AP-Facility-02

* Type: Standard

Data Group:

Information

* Display Order: 0

Default Calendar: Standard

Site: Site

Remote:

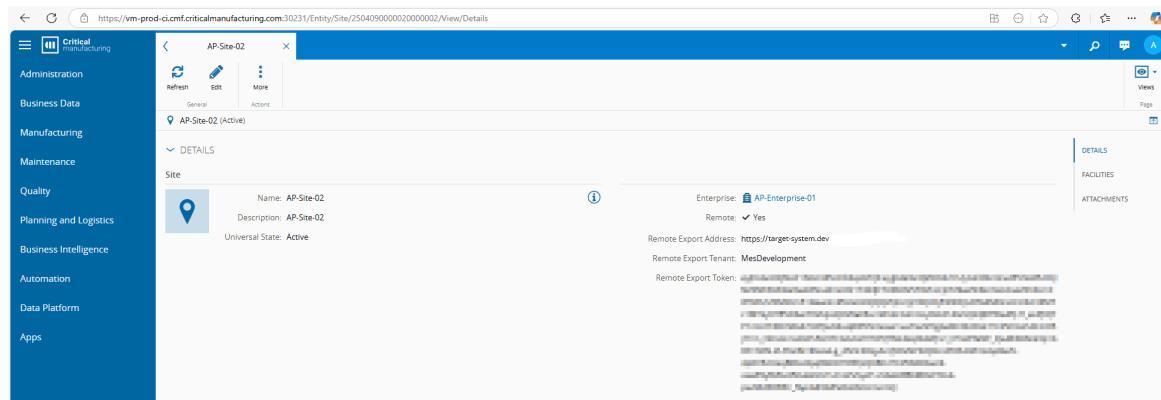
Terminate on Ship to This Facility:

Comments:

[Cancel](#) [Create](#)

Source System

Configure the **Site** for the target system (example: AP-Site-02) according to the [Configure Remote Site](#) instructions:



AP-Site-02 (Active)

Site

Name: AP-Site-02

Description: AP-Site-02

Universal State: Active

Enterprise: AP-Enterprise-01

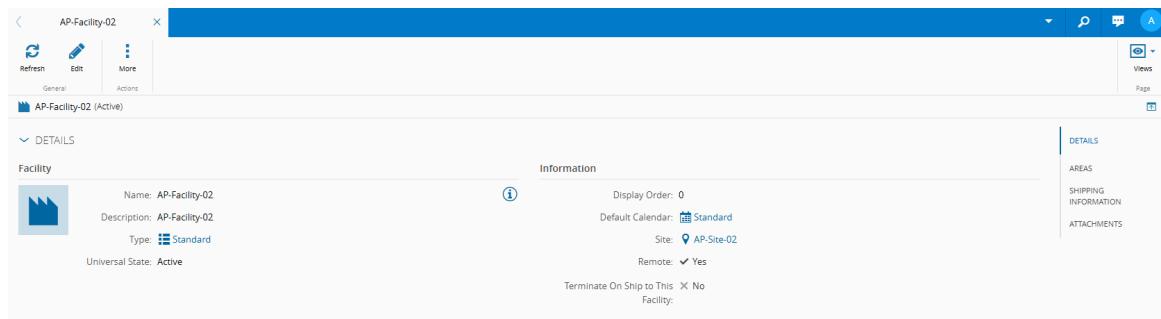
Remote: Yes

Remote Export Address: http://target-system.dev

Remote Export Tenant: MesDevelopment

Remote Export Token: [REDACTED]

Create a remote **Facility** with the previously created **Site** according to the [Configure Remote Facility](#) instructions:



AP-Facility-02 (Active)

Facility

Name: AP-Facility-02

Description: AP-Facility-02

Type: Standard

Universal State: Active

Information

Display Order: 0

Default Calendar: Standard

Site: AP-Site-02

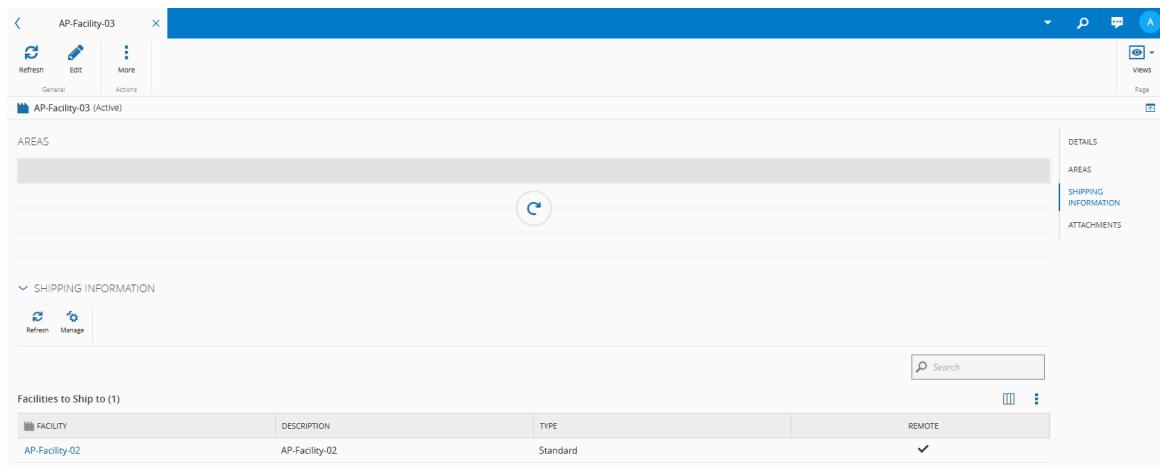
Remote: Yes

Terminate On Ship to This Facility: No

Info

The remote Facility must have the same name as the corresponding Facility in the target system.

In the source system from a local **Facility**, go to the **Shipping Information** section and associate the remote **Facility** to allow shipping:



FACILITY	DESCRIPTION	TYPE	REMOTE
AP-Facility-02	AP-Facility-02	Standard	✓

Mark as many **Steps** as intended with the Allow Shipping property.

Ship **Material** normally and specify whether **Containers** should also be shipped.

 **Info**

For the Shipping process to succeed, the Product must exist in both the local and remote Facilities.

 **Info**

If the Material has user-defined attributes, they will only be created in the remote Facility if the same attributes (same name and same data type) exist in the remote Facility.



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