

# Data Platform IoT Workflows

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# Data Platform IoT Workflows

*Estimated time to read: 3 minutes*

This document will provide a quick guide for the creation and configuration of **IoT Workflows** within the scope of **IoT Data Platform**.

## Overview

An **IoT Workflow** is a structured sequence of tasks designed to automate processes related to IoT Event handling and Data Platform tasks. **IoT Workflows** enable seamless integration of IoT event data into broader data pipelines, including tasks like machine learning (ML) , DEE rules or service calls.

**IoT Workflows** are based on the Connect IoT Engine and they are version-controlled, ensuring changes are tracked and can be iterated upon to meet evolving requirements. This flexibility allows organizations to effectively adapt to new challenges while maintaining a robust framework for IoT-driven data management.

With IoT Workflows, you can:

- Trigger real-time alerts or downstream tasks based on IoT events.
- Integrate data into the Data Platform for advanced analytics and AI applications.
- Automate event enrichment and transformation.

## Steps to create an IoT Workflow

There are two ways of creating **IoT Workflows** for Data Platform tasks:

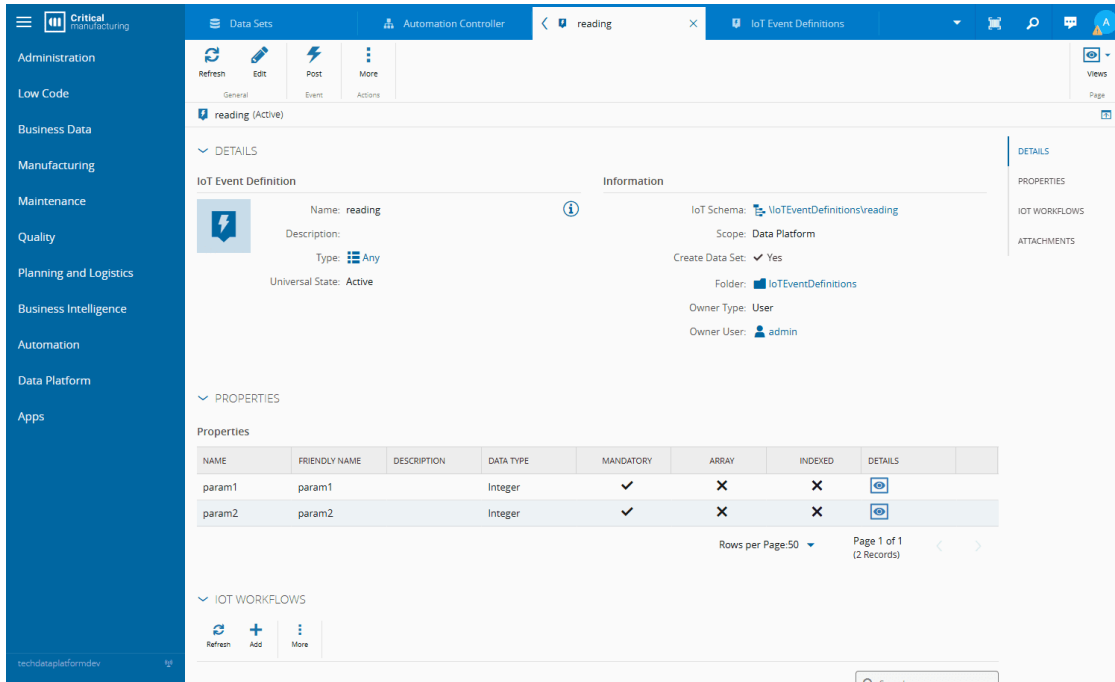
- Via IoT Event Definition view (recommended)
- Via Data Platform Workflows button in Data Platform submenu

Here are the steps to create an **IoT Workflow**:

### Via IoT Event Definition view

1. Navigate to the **IoT Event Definition** view.
2. Select the **IoT Event Definition** for which you want to create the IoT Workflow.

3. Select the **IoT Workflow** section. Select the **+** button to add a new **Automation Controller**.



The screenshot shows the 'reading' IoT Event Definition details in the Critical Manufacturing 11.2 interface. The left sidebar contains navigation links: Administration, Low Code, Business Data, Manufacturing, Maintenance, Quality, Planning and Logistics, Business Intelligence, Automation, Data Platform, and Apps. The main area displays the 'reading' event definition with the following details:

- Name:** reading
- Description:**
- Type:** Any
- Universal State:** Active
- IoT Schema:** IoTEventDefinitions/reading
- Scope:** Data Platform
- Create Data Set:** Yes
- Folder:** IoTEventDefinitions
- Owner Type:** User
- Owner User:** admin

The **PROPERTIES** section shows a table with 2 records:

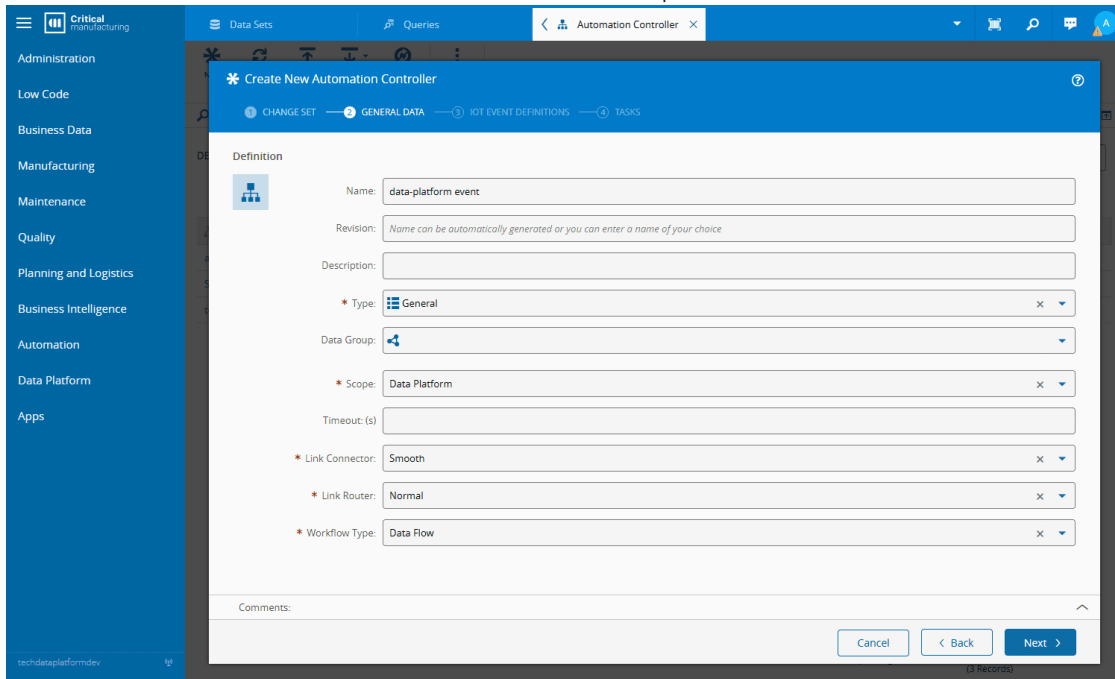
NAME	FRIENDLY NAME	DESCRIPTION	DATA TYPE	MANDATORY	ARRAY	INDEXED	DETAILS
param1	param1		Integer	✓	✗	✗	
param2	param2		Integer	✓	✗	✗	

The bottom of the screen shows the **IOT WORKFLOWS** section with a 'Refresh' button and a 'More' button. The status bar at the bottom indicates 'Page 1 of 1 (2 Records)'.

4. The **Automation Controller** wizard will open as the workflows derive from the Connect IoT Engine.

5. Define a **Change Set** since the IoT workflows are versioned objects.

6. Define the **IoT Workflow** name and confirm the workflow scope defaults to Data Platform.



The screenshot shows the 'Create New Automation Controller' wizard in the Critical Manufacturing 11.2 interface. The wizard has four steps: 1. CHANGE SET, 2. GENERAL DATA, 3. IOT EVENT DEFINITIONS, and 4. TASKS. The current step is 'GENERAL DATA'.

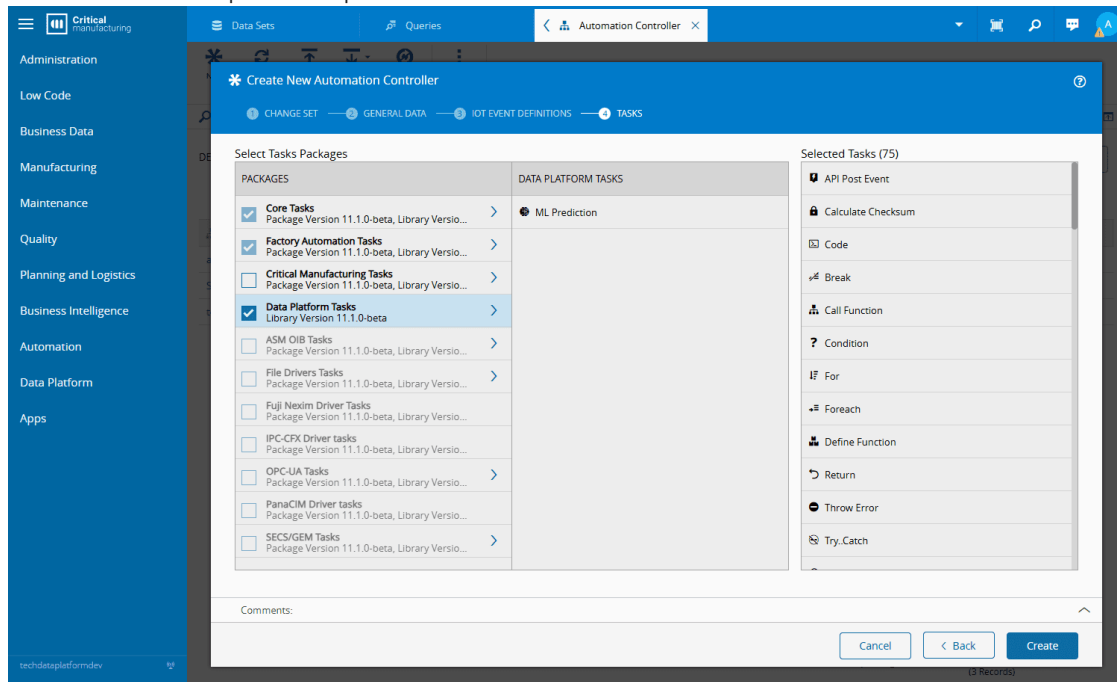
The **Definition** section contains the following fields:

- Name:** data-platform event
- Revision:** Name can be automatically generated or you can enter a name of your choice
- Description:**
- Type:** General
- Data Group:**
- Scope:** Data Platform
- Timeout (s):**
- Link Connector:** Smooth
- Link Router:** Normal
- Workflow Type:** Data Flow

The **Comments** section is empty. The bottom of the screen shows 'Cancel', 'Back', and 'Next' buttons.

7. In the **Tasks** section, choose the Data Platform tasks - you will see the ML task there.

8. Select **Create** to complete the operation.

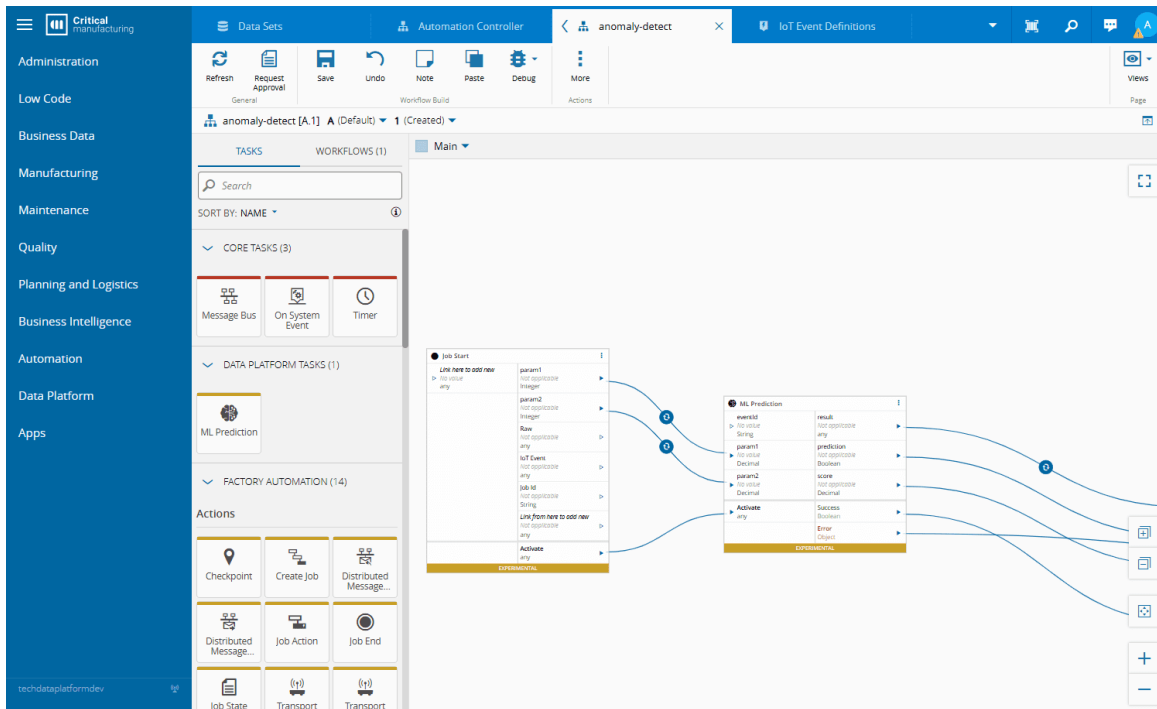


Via Data Platform Workflows button in Data Platform submenu

1. Navigate to the Data Platform submenu.
2. Select on the **Data Platform Workflows** button.
3. Select New to open the **Automation Controller** wizard.
4. The **Automation Controller** wizard will open as the workflows derive from the Connect IoT Engine.
5. Define a **Change Set** since the IoT workflows are versioned objects.
6. Define the **IoT Workflows** name and **set the scope to Data Platform**.
7. In the **Tasks** section, choose the Data Platform tasks - you will see the ML task there.
8. Select **Create** to complete the operation.

Configure your Workflow

When it is created, you can configure your workflow using the available tasks on your left:



When the workflow is created for a given IoT event, it will run every time a new event of that type is published to Data Platform (via the Post Event API in the Host).



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