

dcTrack – NetBox Integration

The dcTrack – NetBox integration synchronizes device data from NetBox into dcTrack using a configured XML connector.

This integration retrieves device information from NetBox and updates the corresponding asset records in dcTrack. The integration runs on a scheduled polling interval and maintains accurate asset data without manual updates.

Integration Direction

- Data flows in one direction only:
- NetBox to dcTrack
- **The integration is read-only:**
- dcTrack retrieves device information from NetBox
- No data is written back to NetBox
- No configuration changes are made in NetBox

Integration Components

The integration consists of the following components:

- **XML Connector Configuration** - Defines API calls, field mappings, and integration logic
- **Polling Schedule** - Defines how often the integration runs

Polling Schedule

The integration runs automatically based on the polling interval configured in the connector.

If the polling interval is set to 1 minute, the integration runs once every minute.

Data Collected from NetBox

Device Information

- Name
- Manufacturer
- Model
- Serial Number
- Device Role
- Status

Location Information

- Site
-

How the Integration Works

- Authenticate to NetBox using an API token
 - Query devices from /api/dcim/devices/
 - Retrieve updated devices using timestamp-based filtering
 - Match records using CMDB device name mapped to the dcTrack Alias field
 - Map NetBox fields to dcTrack fields
 - Update asset records in dcTrack
-

Field Mapping Overview

Device Fields

- name -> Alias (unique key)
- manufacturer -> Make
- model -> Model
- serial -> Serial Number
- device_role -> Type
- status -> Status

Location Mapping

- site -> Location

Data Port Fields

- portId -> Port ID
- portName -> Port Name
- index -> Index (unique key)
- ipAddress -> IP Address
- cidr -> Subnet

Data Connection Fields

- label -> Cord ID
- length -> Cord Length
- color -> Cord Color
- cordType -> Cord Type

Rule Functionality

- Updates the Connectors custom field with a list of all CMDB connectors associated with the item
- Applies to the following device subclasses:
 - Cabinet
 - Server
 - Network

Notes

Field mappings are defined in the XML configuration

Only existing matched items are updated, new item insert is disabled

Matching is based on CMDB device name Mapped to dcTrack Alias

Data port and connection mappings are included and can be enabled if needed