

## Connect PLCnext Devices With the Cumulocity IoT!

- ✓ **Device management features:**  
Monitor specific device data and send commands
- ✓ **Standardized device data object types:**  
Measurement data, events and alarms
- ✓ **Easy to use:**  
Simple setup and configuration of the app in just a few minutes

The app communicates with the PLCnext device via the **device-specific protocol** and **forwards and retrieves data to Cumulocity via HTTPS**. For this data exchange the Cumulocity data model is used, so the app will transform the device specific data.

## How to Start

The App is available for free in the **PLCnext Store**. It is **easy to install and to configure**, so the device integration can be done within minutes. The internal communication of the App and the PLCnext device is done over the **RSC protocol**.

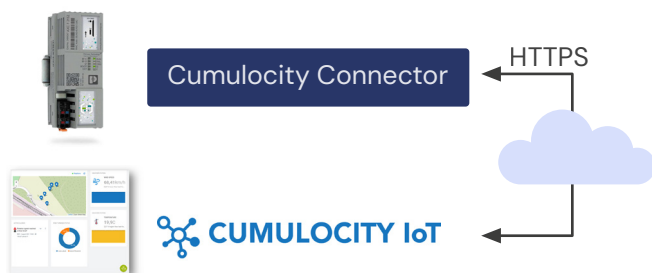


Figure 1: App Concept Overview

After a successful device integration on the Cumulocity platform, the Cumulocity Connector App provides the standardized device management features from the platform, so **tracking device information** (like hardware model, serial number or version), **monitoring the device availability**, **defining a geographical position**, **acquiring specific device data** or **sending control commands** is immediately available.

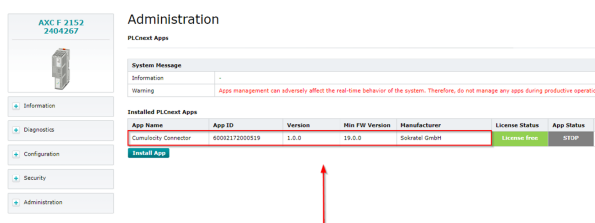


Figure 2: Installed App in Phoenix Web Interface

## Configuration

The device configuration panel on Cumulocity allows defining signals from the PLCnext device's **Global Data Space (GDS)** for transfer to Cumulocity. This requires defining the signal's port name, **transformation mapping**, and sample rate in the **JSON configuration file**. Transformation mapping determines how the GDS signal is converted for Cumulocity, with three standardized data object types options available: **Measurement, Event, or Alarm**.

**Configuration changes** are managed through Cumulocity operations; invalid requests, such as syntax errors, result in failed updates. Valid changes are marked successful upon completion.

Additionally, **device restart** can be initiated via Cumulocity's device info page, restarting the entire PLCnext device. The **Cumulocity device control page** offers an **overview of all device operations**, facilitating tracking and identification of past executions.

## Links:

<https://www.plcnextstore.com/eu/app/85>

<https://www.cumulocity.com/product/>



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