Cumulocity IoT Edge

powered by Dell Technologies

Connect, power up, go!

Fact sheet

Get value from the Industrial Internet of Things faster

Cumulocity IoT Edge, powered by Dell Technologies (bundle)—a joint plug-and-play IoT edge solution by Dell Technologies and Software AG—is your key to getting value from the Industrial Internet of Things (IIoT) faster. This high-performance industry-proof solution, combining hardware, software and services, works from the get-go with no adjustments necessary. Cumulocity IoT Edge helps you implement your digitalization strategy quickly and stay ahead of the competition.

Key benefits

Quick start
With Cumulocity IoT Edge, powered by Dell Technologies (bundle), you can connect any number of different end devices and sensors in just a few minutes. With features like integrated streaming analytics, preconfigured smart rules and field bus connectivity, you can begin to create complex IIoT solutions quickly and easily.

Efficient
To minimize latency, data traffic and storage volume, Cumulocity IoT Edge processes large data volumes necessary for sophisticated analytics close to the data source. Only data needed for additional analysis is transferred to the cloud. That saves you costs.

Autonomous
Key manufacturing processes require autonomous IoT operations. With Cumulocity IoT Edge, you can control machinery and production processes in offline mode and during periods of unstable connectivity—reliably and efficiently.
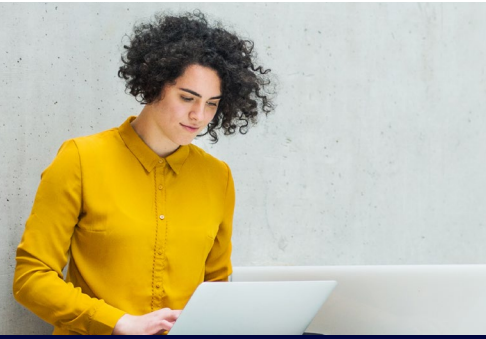
Scalable
Highly scalable server architectures ensure the right performance for a wide range of applications. You can scale vertical and horizontal IIoT solutions easily with Cumulocity IoT Edge thanks to a uniform software architecture (including APIs and an analytics engine) across the cloud, the core and the network's edge.

Productive
Thanks to the solution's embedded intelligence, you'll boost productivity and automate the entire server lifecycle—from cradle to grave.

Secure
Each server comes with an extensive security layer and is enhanced with Cumulocity IoT's software-side (carrier grade) security mechanisms, guaranteeing protection of your enterprise and your customers.

Inside the solution

Dell EMC innovative hardware in combination with Software AG's Cumulocity IoT Edge creates a user-friendly software appliance. It's placed at the edge of the network with connectivity to local IoT devices that secures and transfers data from sensors and production facilities. The appliance prepares, filters and aggregates data before sending it onto enterprise applications or the cloud for further processing. The appliance includes time-saving industry-specific software solution modules, for example, for manufacturing and logistics.

Cumulocity IoT Edge is a single-server version of the market-leading Cumulocity IoT platform with extensions and modifications for on-site operation. You can do on-site integration of business apps (such as SCADA apps), generate dashboards for operators and control end devices locally and from the cloud.

Servers and gateways are controlled from the cloud via the same interfaces as end devices. This simplifies the introduction of edge computing and control of compatible field devices.

Using the embedded Apama Streaming Analytics engine, you can process high-speed streams of data from industrial machinery and digital industrial processes—the foundation for easy development of predictive maintenance solutions.

The uniform software architecture enables you to deploy the same APIs, data models and analysis models for development, from the controller to the gateway and from the on-site data center to the central cloud solution. This simplifies development and adaptation of Cumulocity IoT Edge to address specific on-site requirements.

Choose the package right for you:

- Small for the quick creation of prototypes, getting familiar with the technology and conducting feasibility studies and field tests on your digitalization strategy
- Medium or large optimized for production and assembly plant digitalization solutions

Take the next step

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