



**Bosch IoT Suite**

**Bosch IoT Device Management**

# Service Name

Bosch IoT Device Management

## Service Description

Bosch IoT Device Management is a service package dedicated to supporting device management and software update management throughout the entire device life cycle.

This package comprises various layers:

- **Device connectivity** – to communicate device-to-cloud and cloud-to-device
- **Digital twin** – to keep the physical and the digital world in sync
- **Mass management** – to perform centralized remote maintenance and large-scale batch management of IoT devices deployed in the field
- **Software update** – to manage and control software and firmware updates for IoT devices

## Features:

- **Remote device maintenance:** Enables users to view the status and control the state of devices.
- **Large-scale batch device management automation:** Powerful rule-based execution of mass management tasks.
- **Remote access:** Provides remote access for apps and application servers to gateways and devices.
- **Device inventory:** Inventory that holds the devices including the full software update history, and is used to organize devices in flexibly defined groups.
- **Software repository:** Manage software distribution and ship artifacts via a worldwide content delivery network.
- **Single software updates and campaign management:** Easy definition of campaigns for large groups of devices.
- **Reporting and monitoring:** Reporting, audit logging, and rollout monitoring to keep track of campaigns.
- **Pre-configured:** Developers do not have to individually configure the Bosch IoT Suite services provided with this package.
- **Open source foundation:** Bosch IoT Suite for Device Management is based on and powered by [Eclipse Hono™](#), [Eclipse Ditto™](#), and [Eclipse hawkBit™](#) open source projects.
- **Available on:** Bosch IoT Device Management runs on Amazon Web Services (AWS).

The list of all features is documented at <https://docs.bosch-iot-suite.com/device-management/Feature-list.html>.

## System Requirements

- For web based user interfaces:
  - Desktop browsers: latest stable version of either Mozilla Firefox, Google Chrome or Microsoft Edge.
  - [WebSocket support](#)
- For HTTP based APIs:
  - [HTTP 1.1](#) compatible client with TLS encryption support
  - Optional support for [WebSockets](#)
  - Optional support for [Server-Sent Events](#)
- For Java clients:
  - Oracle Java SE 8 is required to use provided Java client(s).
- Resilience
  - Due to it's nature of distributed systems and network based communication, your devices and applications need to be able to bridge small interruptions or latencies.
  - All usage of our service by APIs should apply a systematic approach for managing re-tries incl. an exponential back-off, as well as re-connects.
  - For more information visit the [General retry and reconnect guidelines for applications and devices](#), part of our user documentation.

## Known limits and restrictions

When using Bosch IoT Device Management, the functionality of its different layers comes with different quota depending on the selected service plan, and further restrictions.

A list of all known limits and restrictions is published with the service documentation.

See <https://docs.bosch-iot-suite.com/device-management/Known-limits-and-restrictions.html>

## Privacy Leaflet

Find information about data protection and privacy topics of the [Bosch IoT Suite – privacy leaflet](#).



# Bosch IoT Suite

<https://bosch-iot-suite.com/>  
<https://www.bosch-digital.com/>

## Imprint

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