



FEATURE SCOPE DESCRIPTION | PUBLIC
2019-01-17

Feature Scope Description for SAP IoT Application Enablement

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1 About This Document

This document provides a quick overview of the features that are available for SAP IoT Application Enablement.

i Note

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2 Feature Scope Description

High-level list of features provided by SAP IoT Application Enablement

SAP IoT Application Enablement is a platform built on SAP HANA that comprises REST-based as well as OData-based HTTP services, which can be used to create an administrative environment for managing and monitoring sensor data generated by technical objects that are part of the Internet of Things (IoT). In addition to the services, which are accessible via an application programming interface (API), SAP IoT Application Enablement offers a number of apps that are built upon the services and help you step inside the world of the Internet of Things.

The following features are available with SAP IoT Application Enablement:

Feature	Description
Application Programming Interface (API)	<p>A collection of fine-granular micro-services that provide access to the core entities of SAP IoT Application Enablement:</p> <ul style="list-style-type: none">• Business partner-related services (persons and companies)• Authorization-related services• Thing-related services (configuration, packages, things, events, files)
Tenant Administration UI	<p>A collection of lightweight apps for basic administrative tasks:</p> <ul style="list-style-type: none">• Persons• Companies• User Groups• Object Authorization
Thing Modeler UIs	<p>Powerful apps for defining thing types, deriving things from these types, and for monitoring the sensor data ingestion:</p> <ul style="list-style-type: none">• Packages• Thing modeler• Thing Properties Catalog• Data Ingestion Error Log <p>The Thing Modeler app is also used for associating a physical device with a thing as its virtual twin, an activity known as thing onboarding.</p>
Business Partners	<p>Business partners are modeled according to the business partner concept that has been introduced with SAP Master Data Governance. Supported business partner types are:</p> <ul style="list-style-type: none">• Person• Organization (company)



Feature	Description
Authorization	Detailed authorization concept based on object instances and functional scopes for each tenant, with the tenant acting as a strictly isolated container.
Mass data processing	Sensor data generated by things that are onboarded on the platform are stored in a multi-component, high-performance database system built around SAP HANA, SAP's in-memory database
Time series analysis	Thing sensor data can be clustered and analyzed based on individually defined timeframes as a basis for trend observations, predictive maintenance scenarios, or similar use cases.
Reuse controls and UI templates	A collection of easy-to-use building blocks that enable you to create an IoT-based analytical application from within SAP Web IDE, a web-based tool that intends to simplify the end-to-end application lifecycle: prototyping, development, packaging, deployment, and customer extensions for Fiori or SAPUI5 applications.

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