

PUBLIC

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Feature Scope Description for SAP IoT

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1 About This Document

This document defines the functional scope of SAP IoT.

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Documentation

The following documentation is available for SAP IoT:

- This feature scope description
- Getting Started Guide
- Security Guide
- API reference documentation
- End user documentation for Thing Modeler, Tenant Administration, Rule Modeling, Action Modeling, Decision Support, Geolocation, Custom Master Data

2 Introduction

SAP IoT is a collection of tools and applications built on SAP Business Technology Platform (SAP BTP) that 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 API services, SAP IoT offers a number of apps that are built upon the services and help you step inside the world of the Internet of Things.

3 Features

High-level list of features provided by SAP IoT

The following features are available with SAP IoT:

Feature	Description
Application Programming Interface (API)	A collection of fine-granular micro-services that provide access to the core entities of SAP IoT Application Enablement: • Authorization-related services • Thing-related services (configuration, packages, things, events, files)
Device Connectivity	A fully integrated abstraction layer taking care of managing, and connecting to, physical devices and protocols. Device Connectivity presents the various kinds of physical devices in a uniform way so that they can be easily matched with their virtual counterpart, the things used in an IoT scenario.
IoT Edge	Built-in support for processing sensor data at the edge as it is required by high- speed processing scenarios as well as for scenarios dealing with unreliable or slow data connection.
Tenant Administration UI	A collection of lightweight apps for basic administrative tasks: • Persons • Companies • User Groups • Object Authorization
Thing Modeler UIs	Powerful apps for defining thing types, deriving things from these types, and for monitoring the sensor data ingestion: • Packages • Thing modeler • Thing Properties Catalog • Data Ingestion Error Log 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.
Rules UIs	Apps for rule-based processing of events that occur during ingestion of time series data. The apps cover the following aspects: • Rule definition • Actions triggered by user-defined events • Templates for notifications

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.
Location management	Allows the definition of one-dimensional or two-dimensional geographic objects (point of interest, area of interest). Things can be enriched with geographic data and events can be triggered when a thing arrives at, or leaves from, a particular location.
SAP Analytics Cloud Integration	In SAP IoT, you can gain insights about the time series data recorded by sensors with the help of graphics and visualizations provided by SAP Analytics Cloud.
Smart Sensing	A suite of apps closely integrated with SAP S/4HANA and SAP S/4HANA Cloud that let you capture events as objects that are identifiable with Auto-ID technology tags move through gates or scanners to automate business processes in manufacturing and logistics.

4 Product Availability

This section describes the product availability aspects and the product restrictions.

Availability Aspect	Description
Languages	English, German
Environment	This application runs in the Cloud Foundry environment.

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