



PUBLIC  
2019-08-28

# Feature Scope Description for SAP Leonardo IoT

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# 1 About This Document

This document defines the functional scope of SAP Leonardo IoT.

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## Documentation

The following documentation is available for SAP Leonardo IoT:

- This feature scope description
- Getting Started Guide
- Security Guide
- API reference documentation
- End user documentation for Thing Modeler, Tenant Administration, Rule Modeling, Query Modeler

## 2 Introduction

SAP Leonardo IoT is a collection of tools and applications built on SAP Cloud Platform 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 Leonardo 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 Leonardo IoT

The following features are available with SAP Leonardo IoT:

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"><li>• Business partner-related services (persons and companies)</li><li>• Authorization-related services</li><li>• Thing-related services (configuration, packages, things, events, files)</li></ul>
Tenant Administration UI	<p>A collection of lightweight apps for basic administrative tasks:</p> <ul style="list-style-type: none"><li>• Persons</li><li>• Companies</li><li>• User Groups</li><li>• Object Authorization</li></ul>
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"><li>• Packages</li><li>• Thing modeler</li><li>• Thing Properties Catalog</li><li>• Data Ingestion Error Log</li></ul> <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>
Rules UIs	<p>Apps for rule-based processing of events that occur during ingestion of timeseries data. The apps cover the following aspects:</p> <ul style="list-style-type: none"><li>• Rule definition</li><li>• Actions triggered by user-defined events</li><li>• Templates for notifications</li></ul>
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"><li>• Person</li><li>• Organization (company)</li></ul>

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.
Query Modeler	A tool that helps you analyzing timeseries data generated by sensors in various dimensions.
Decision Support	A tool that helps employees resolve business situations where various possible processing alternatives exist.

# 4 Product Availability

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



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

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