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Feature Scope Description for SAP Intelligent Product Design

Content

- 1 About This Document. 3**
- 2 Introduction. 4**
- 3 Collaboration Option. 5**
 - 3.1 Collaboration. 5
 - 3.2 Live Product Cockpit. 5
- 4 Engineering Option. 7**
 - 4.1 Requirement Acquisition. 7
 - 4.2 Requirements Management and Systems Modeling. 8
 - 4.3 Test Management. 9

1 About This Document

This document defines the functional scope of SAP Intelligent Product Design.

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2 Introduction

SAP Intelligent Product Design is a cloud solution that helps you manage and digitalize your product research and development (R&D). It enables you to collect, manage, and prioritize product requirements, and support high quality product design. This solution runs on SAP Cloud Platform and integrates to SAP S/4HANA processes.

3 Collaboration Option

Provides information about the collaboration option for SAP Intelligent Product Design.

The collaboration option consists of the following capabilities:

- [Collaboration \[page 5\]](#)
- [Live Product Cockpit \[page 5\]](#)

3.1 Collaboration

Business Background

This feature of the collaboration option for SAP Intelligent Product Design allows you to collaborate with participants within and outside your organization to design your products faster.

Key Features

The following table explains the key features available:

Key Feature	Use
Collaboration	This feature allows you to create and use collaborations to store, share, and review engineering documents with internal and external participants using a process driven approach. You can collaborate outside your organization, and across your extended business partner network, by inviting suppliers, customers, and partners into your collaborations.

3.2 Live Product Cockpit

Business Background

The following features of the collaboration option for SAP Intelligent Product Design allow you to have a quick overview of different aspects of your projects from a card-based dashboard. Collecting information from

various applications and services, the cards keep you up to date with the latest statuses of your collaborations and other relevant topics. You can also create and tailor the cards to suit specific business needs.

Key Features

The following table explains the key features available:

Key Feature	Use
Live Product Cockpit	You use this feature to get various R&D information from cards displayed on an overview page, including requirement statuses, collaborations information, 3D models, and data from other connected applications or systems.
Manage Cards	You use this feature to: <ul style="list-style-type: none">• View, create, edit, and delete customized cards.• Control role-based access to cards.

4 Engineering Option

Provides information about the engineering option for SAP Intelligent Product Design.

The engineering option includes all of the capabilities provided by the collaboration option (see [Collaboration Option \[page 5\]](#)) in addition to the following capabilities:

- [Requirement Acquisition \[page 7\]](#)
- [Requirements Management and Systems Modeling \[page 8\]](#)
- [Test Management \[page 9\]](#)

4.1 Requirement Acquisition

Business Background

The following feature of the engineering option for SAP Intelligent Product Design enables you to obtain product feedback and consolidate feedback to capture the valuable information for product improvement.

Key Features

The following table explains the key features available:

Key Feature	Use
Requirement Acquisition	Use this feature to: <ul style="list-style-type: none">• Create and manage feedback based on product feedback collected from various sources, optionally using machine learning services for auto classification of feedback.• Create and manage consolidated feedback to capture useful information for product improvement.

4.2 Requirements Management and Systems Modeling

Business Background

The following features of the engineering option for SAP Intelligent Product Design mainly involve the practice of requirements management, requirements exchange and systems modeling.

Key Features

SAP Intelligent Product Design supports access to the Web application [Requirements Management and Systems Modeling](#). When the access is enabled, the following features for systems engineering are available:

Key Feature	Use
Requirements-Driven Development	Use this feature to: <ul style="list-style-type: none">• Manage requirements by creating requirements models.• Assign requirements and other model objects to external business objects to support requirements traceability. Requirements traceability enables you to manage the relationships between the requirements and the associated objects in your development.• Run impact and lineage analysis - You can launch an impact and lineage analysis on requirements, model objects and other associated business objects.
Standard-Based Requirements Exchange	Use this feature to transport requirements between different requirements management tools. You can: <ul style="list-style-type: none">• Import and export requirements using a Requirements Interchange Format file.• Import requirements and associated information from a text file.

Key Feature	Use
Model-Based Systems Engineering	<p data-bbox="627 371 879 398">With this feature, you can:</p> <ul data-bbox="627 421 1393 1104" style="list-style-type: none"> <li data-bbox="627 421 1393 483">• Use requirement diagrams to visualize the hierarchy and other relationships between all or some of your requirements. <li data-bbox="627 495 1393 521">• Use block definition diagrams to design and analyze system structures. <li data-bbox="627 533 1393 629">• Use use case diagrams to describe the usage of a system by providing a graphical view of how actors interact with the system to achieve their goals. <li data-bbox="627 640 1393 703">• Use internal block diagrams to specify the internal structure of a single block in your system model. <li data-bbox="627 714 1393 777">• Use parametric diagrams to convey the constraints information of your system. <li data-bbox="627 788 1393 851">• Use state machine diagrams to specify how a system or sub-system changes its state over time in response to different events. <li data-bbox="627 862 1393 925">• Use activity diagrams to review and analyze the behaviors of a system by describing actions and flows involved in its activities. <li data-bbox="627 936 1393 1032">• Use sequence diagrams to describe system behaviors by modeling the interactions between the participants (systems, sub-systems, and actors in the associated environment). <li data-bbox="627 1043 1393 1106">• Use package diagrams to describe the relationships between packages in a model.

4.3 Test Management

Business Background

The following feature of the engineering option for SAP Intelligent Product Design lets you check whether your team's development matches the associated requirements by creating reusable test artifacts and organizing them into flexible testing projects.

Key Features

The following table explains the key features available:



Key Feature	Use
Test Management	Use this feature to: <ul style="list-style-type: none">• Create and manage test artifacts.• Plan and execute tests against product requirements.• Analyze test results and stay connected with product development.

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