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API Documentation

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1 Recommend Configuration

This service enables you to get the technical configuration of a particular product with confidence score, product attribute, product attribute value, corresponding language specific descriptions and material variant details by passing the configuration determination model (received in step 4). If commercial attributes like lead time and price need to be retrieved the corresponding commercial attributes determination model (received in step 4) need to be passed as well. It is based on the OData protocol, and can be consumed in external systems, Fiori applications and on other user interfaces.

Technical Details

Service Group	Repository ID	Service Name	Version
RecommendConfiguration	SAP-IntelligentPro- dRecmdn/IntelligentPro- dRecmdn-core	RecommendConfiguration	0001

Service Structure

This service enables you to get the technical configuration of a product. Based on the language, productid and needsAttribute value pairs, commercialAttributesDeterminationModel and configurationDeterminationModel passed on the request we get the products configuration which includes attributename, attribute description, attribute value, attribute value description, confidencescore, UoMISOCCode, sequenceNo. We also get commercialAttributes details which includes leadTime, unitNetPrice, unitGrossPrice, unitCogs, maxUnitNetPrice, minUnitNetPrice, maxUnitGrossPrice, minUnitGrossPrice, maxUnitCogs, minUnitCogs, margin, discount and currency. We also get material variants details like leadTime, variantName, fit and variant configurations. If any issues arise when these details are retrieved, the system displays error messages in the response.

Entities

Entity	Description	Necessity
RecommendConfiguration	This entity consists of productRecommendationModel, Solutions which provides configurationDeterminationModel , commercialAttributesDeterminationModel and ProductConfiguration which includes ProductId, productDescription and confidenceScore and CommercialAttributes which includes leadTime, unitNetPrice, unitGrossPrice, unitCogs, maxUnitNetPrice, minUnitNetPrice, maxUnitGrossPrice, minUnitGrossPrice, maxUnitCogs, minUnitCogs, margin, discount, currency and materialvariants configuration which includes leadTime, variantName, fit and variantconfigurations.	Mandatory

Service Response

Entity	Description
201	Created

Error Codes

Error Code	Description
401	Unauthorized

Constraints

With this service, it is not possible to:

- Delete the Recommend Configuration
- Update the Recommend Configuration

Authentication

This service uses OAuth2 security protocol.

Additional Information

2 APIs for Product Recommendation

The Product Recommendation APIs enable you to receive intelligent product and configuration suggestions based on the inputs you provide. These APIs analyze your specific needs and match them with suitable products and their technical configurations, helping you streamline decision-making and enhance your guided selling experience.

You can design tailored, machine learning (ML)-powered digital assistants to streamline your sales processes and improve the customer experience. By leveraging advanced algorithms, the system analyzes product, sales, and market data along with end-customer preferences to generate valuable insights. It provides relevant product recommendations to your sales teams and customers, both from a technical and commercial perspective.

3 Recommend Products

This service enables you to get the list of recommended products with confidence score, language specific description of product, corresponding configuration determination model and commercial attributes determination model by passing the **productRecommendationModel** (received from step 1) and Needs attributes name value pairs (received from step 2). It is based on the OData protocol, and can be consumed in external systems, Fiori applications and on other user interfaces.

Technical Details

Service Group	Repository ID	Service Name	Version
RecommendProducts	SAP-IntelligentPro- dRecmdn/IntelligentPro- dRecmdn-core	RecommendProducts	0001

Service Structure

This service enables you to get the list of recommended products with confidence score. Based on the language, productRecommendationModel and needsAttribute value pairs passed on the request we get the solution, configurationDeterminationModel, commercialAttributesDeterminationModel, productid, product description, language and confidence score as response. If any issues arise when these details are retrieved, the system displays error messages in the response.

Entities

Entity	Description	Necessity
RecommendProducts	This entity consists of productRecommendationModel, Solutions which provides configurationDeterminationModel, commercialAttributesDeterminationModel ProductId, productDescription and confidenceScore	Mandatory

Service Response

Entity	Description
201	Created

Error Codes

Error Code	Description
401	Unauthorized

Constraints

With this service, it is not possible to:

- Delete the Recommend Products
- Update the Recommend Products

Authentication

This service uses OAuth2 security protocol.

Additional Information

4 Needs Attribute Values

This service enables you to get the needs attribute values and corresponding language-specific description for a particular need attribute (if it is Code List Type). It is based on the OData protocol and can be consumed in external systems, Fiori applications, and other user interfaces.

Technical Details

Service Group	Repository ID	Service Name	Version
NeedsAttributeValues	SAP-IntelligentPro- dRecmdn/IntelligentPro- dRecmdn-core	NeedsAttributeValues	0001

Service Structure

The service contains all the needs attributes values relevant to a Needs Attribute. Based on the language and needsAttributeName passed on the request we get the attribute value, description, position number and language as response. If any issues arise when these details are retrieved, the system displays error messages in the response.

Entities

Entity	Description	Necessity
NeedsAttributeValues	This entity consists of value, description, language, positionnumber	Mandatory

Service Response

Entity	Description
200	OK

Error Codes

Error Code	Description
401	Unauthorized

Constraints

With this service, it is not possible to:

- Create a new Needs attribute value
- Delete the Needs attribute value
- Update the Needs attribute value

Authentication

This service uses OAuth2 security protocol.

Additional Information

5 Product Categories

This service enables you to read the Product Recommendation Model of each product category. It is based on the OData protocol and can be consumed in external systems, Fiori applications, and other user interfaces.

Technical Details

Service Group	Repository ID	Service Name	Version
ProductCategories	SAP-IntelligentPro- dRecmdn/IntelligentPro- dRecmdn-core	ProductCategories	0001

Service Structure

The service contains all the data relevant to Product Categories. Based on the language passed on the request, we get the Product category description and language as response. If any issues arise when these details are retrieved, the system displays error messages in the response.

Entities

Entity	Description	Necessity
ProductCategories	This entity consists of Product category, Product category description, language and ProductRecommendation-Model	Mandatory

Service Response

Entity	Description
200	OK

Error Codes

Error Code	Description
401	Unauthorized

Constraints

With this service, it is not possible to:

- Create a new product category
- Delete the product category
- Update the product category

Authentication

This service uses OAuth2 security protocol.

Additional Information

6 Needs Attributes

This service enables you to get the Needs attributes and corresponding language specific description and type of attribute (if Code list or Numeric) for a particular product category. It is based on the OData protocol, and can be consumed in external systems, Fiori applications and on other user interfaces.

Technical Details

Service Group	Repository ID	Service Name	Version
NeedsAttributes	SAP-IntelligentProdRecmdn/ IntelligentProdRecmdn-core	NeedsAttributes	0001

Service Structure

The service contains all the needs attributes relevant to a Product Category. Based on the language passed on the request and the Product category as filter condition, we get the Product category, name, description, sequence number, type, UoMISOCCode and language as response. If any issues arise when these details are retrieved, the system displays error messages in the response.

Entities

The entities contain the business data of the service.

Entity	Description	Necessity
NeedsAttributes	This entity consists of Product category, name, description, language, type, sequencenumber, UoMISOCCode	Mandatory

Service Response

Entity	Description
200	OK

Error Codes

Error Code	Description
401	Unauthorized

Constraints

With this service, it is not possible to:

- Create a new Needs attribute
- Delete the Needs attribute
- Update the Needs attribute

Authentication

This service uses **OAuth2** security protocol.

Additional Information

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