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| Test ScriptSAP S/4HANA - 18-09-20 | public |
| Predictive Analytics for Contract Consumption in Procurement (1QR) |

Table of Contents

[1 Purpose 2](#_Toc51414377)

[2 Prerequisites 3](#_Toc51414378)

[2.1 System Access 3](#_Toc51414379)

[2.2 Roles 3](#_Toc51414380)

[2.3 Business Conditions 3](#_Toc51414381)

[3 Overview Table 5](#_Toc51414382)

[4 Test Procedures 6](#_Toc51414383)

[4.1 Train Predictive Model 6](#_Toc51414384)

[4.1.1 Modeling Context 6](#_Toc51414385)

[4.1.1.1 Select and Train Model 6](#_Toc51414386)

[4.1.2 Set a Model Version to Active 7](#_Toc51414387)

[4.2 Quantity Contract Consumption 8](#_Toc51414388)

# Purpose

The Purchaser can analyze a high-level overview of important information, such as expiring contracts, overdue purchase orders, or urgent purchase requisitions, as well as an overview of different procurement KPIs. The Buyer can use this information to predict full usage of a contract based on factors such as a historical data, other available influencing parameters.

This document provides a detailed procedure for testing this scope item after solution activation, reflecting the predefined scope of the solution. Each process step, report, or item is covered in its own section, providing the system interactions (test steps) in a table view. Steps that are not in scope of the process but are needed for testing are marked accordingly. Project-specific steps must be added.

# Prerequisites

This section summarizes all the prerequisites for conducting the test in terms of systems, users, master data, organizational data, other test data and business conditions.

## System Access

|  |  |
| --- | --- |
| System | Details |
| System | Accessible via SAP Fiori launchpad. Your system administrator provides you with the URL to access the various apps assigned to your role. |

## Roles

Assign the following business roles to your individual test users. Alternatively, if available, you can create business roles using the following spaces with pages and predefined apps for the SAP Fiori launchpad and assign the business roles to your individual test users.

Note These roles or spaces are examples provided by SAP. You can use them as templates to create your own roles or spaces.

For more information about business roles, refer to Assigning business roles to a user in the [Administration Guide to Implementation of SAP S/4HANA with SAP Best Practices](https://help.sap.com/viewer/S4HANA2020_AdminGuide) .

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name (Role) | ID (Role) | Description (Space) | ID (Space) | Log On |
| Analytics Specialist | SAP\_BR\_ANALYTICS\_SPECIALIST |  |  |  |
| Strategic Buyer | SAP\_BR\_BUYER | Purchasing Analytics and Supplier Evaluation | SAP\_BR\_BUYER |  |

The predictive model training requires to be done by an analytics specialist. The analytics specialist requires the SAP\_BW\_BC\_UMM\_PC business catalog. To use the Quantity Contract Consumption - Release Amount/Target Amount (F2012) app, the SAP\_MM\_BC\_PUR\_STRATEGY business catalog must have been assigned to end user (this business catalog is also included in the SAP\_BR\_BUYER business roles).

## Business Conditions

Follow the procedures described in the following scope items for creating the corresponding business data if needed.

|  |  |
| --- | --- |
| Scope Item | Business Condition |
| BMD - Purchase Contract | Follow the scope item to create the corresponding business data. |
| BNX - Consumable Purchasing | Follow the scope item to create the corresponding business data. |
| J45 - Procurement of Direct Materials | Follow the scope item to create the corresponding business data. |

# Overview Table

This scope item consists of several process steps provided in the following table.

If your system administrator has enabled spaces and pages on the SAP Fiori launchpad, the homepage will only contain the essential apps for performing the typical tasks of a business role.

You can find all other apps not included on the homepage using the search bar.

If you want to personalize the homepage and include the hidden apps, navigate to your user profile and choose Settings > App Finder .

Table 1:

|  |  |  |  |
| --- | --- | --- | --- |
| Process Step | Business Role | Transaction / App | Expected Results |
| [Train Predictive Model](#unique_7)  [page ] 6 | Analytics Specialist | Predictive Models (F1837) | The model is trained successfully. |
| [Quantity Contract Consumption](#unique_8)  [page ] 8 | Strategic Buyer | Quantity Contract Consumption - Release Amount/Target Amount (F2012) | After having trained the model and scheduled the job, data is visible. The buyer can start the KPI and enable the new measure at run-time. |

# Test Procedures

This section describes test procedures for each process step that belongs to this scope item.

## Train Predictive Model

Purpose

SAP S/4HANA® is shipped with a preconfigured predictive scenario to enable customers to predict when a contract is fully consumed. As each predictive model is specific to a customer, the model must first be trained on customer historical data before it can start to produce predictive scores.

You can use Predictive Models (F1837) to administrate the life cycle of a predictive model with your own data. Train a model to produce a model version, retrain model versions, validate, and activate predictive models in order to return a predictive result.

Please refer to the documentation on SAP Help Portal to perform the steps and gain more detailed information like the Model Status and Model Version Report.

[SAP S/4HANA](https://help.sap.com/s4hana) > English (under Product Assistance) > Cross Components > Analytics > Predictive Analytics integrator (PAi) > Predictive Models App .

### Modeling Context

The modeling context defines the actual instances of the predictive models. It allows you to define a mechanism to get predictions from an appropriate model to which the data is applied.

#### Select and Train Model

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | Duration | Enter a duration. |

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1. | Log On | Log on to the SAP Fiori launchpad as an Analytics Specialist . | The SAP Fiori launchpad is displayed. |  |
| 2. | Access the SAP Fiori App | Open the Predictive Models (F1837) app. | The Predictive Models screen is displayed. |  |
| 3. | Select the Predictive Scenario | Choose the predictive scenario:Contract Consumption "QTY\_CONTRACT\_CNSMPN". | The predictive model QTY\_CONTRACT\_CNSMPN is displayed. |  |
| 4. | Train Model | Select the DEFAULT model and choose Train. In the Train Model dialog box, enter a description and choose Train. | The model version is added to the model list with the status In Training. |  |

### Set a Model Version to Active

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | Duration | Enter a duration. |

Purpose

The active model version is the version that is used to generate predictions when the modeling context is queried.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as an Analytics Specialist. | The SAP Fiori launchpad is displayed. |  |
| 2 | Access the App | Open the Predictive Models (F1837) . | The Predictive Models screen is display. |  |
| 3 | Select a Predictive Scenario | Choose the predictive scenario:Contract Consumption "QTY\_CONTRACT\_CNSMPN". | The predictive model QTY\_CONTRACT\_CNSMPN is displayed. |  |
| 5 | Activate the Model Version | Choose the Default model. The model versions are listed.Choose any model version that is ready and choose Activate. | The model version is activated. |  |

## Quantity Contract Consumption

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | Duration | Enter a duration. |

Prerequisite

You have implemented the Quantity Contract Consumption - Release Amount/Target Amount (F2012).

Note You have scheduled the SAP\_MM\_PUR\_PAI\_CTR\_CONSUMP job. A technical job (SAP\_MM\_PUR\_PAI\_CTR\_CONSUMP) is required to consume the prediction in the front-end app. As for Cloud, this job runs automatically weekly. For on premise, you require to schedule this job manually after the activation of the predictive model. As for the job frequency, you could schedule on demand (or schedule it as weekly referring to Cloud).

Purpose

With the following steps, you can test if the Quantity Contract Consumption - Release Amount/Target Amount (F2012) app is running correctly.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Strategic Buyer. | The SAP Fiori launchpad is displayed. |  |
| 2 | Access the SAP Fiori App | Open the Quantity Contract Consumption - Release Amount/Target Amount (F2012) app. | The Quantity Contract Consumption screen is displayed. |  |
| 3 | Verify the Content | The following views including content are displayed (the exact names may vary):* By Supplier
* By Purchasing Group
* By Purchasing Organization
* By Purchasing Category
* By Material Group
* By Cost Center
* Document
* Trend
* Trend by Supplier
* Trend by Category
 |  |  |
| 4 | Open the Trend View of Key Performance Indicators | Within the key performance indicator, open the dropdown list and select Trend.Choose the settings wheel icon in the chart menu bar.In the default chart section, scroll down and select Predictive Consumption %.Choose OK. | According to historical data, the graph displays data for the next 12 month and historical data (Calendar Year / Calendar Month).You can also filter out specific contracts to receive values for specific contracts. |  |
| 5 | Open the Document View of Key Performance Indicators | Within the key performance indicator, open the dropdown list and select Document.Choose the settings wheel icon in the chart menu bar.In the default chart section, scroll down and select Predictive Consumption % and Validity End.Choose OK. | According to historical data, the list displays the predicted usage for the contracts in the list. Additionally, the date on which the contract is predicted to be consumed is displayed in the Validity End column. |  |

Typographic Conventions

|  |  |
| --- | --- |
| Type Style | Description |
| Example | Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options.Textual cross-references to other documents. |
| Example | Emphasized words or expressions. |
| EXAMPLE | Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE. |
| Example | Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools. |
| Example | Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation. |
| <Example> | Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system. |
| EXAMPLE | Keys on the keyboard, for example, F2 or ENTER. |

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