
**Analytic Content Package for SAP
BusinessObjects**

BO-CNT 3.0

Certification Test Plan

Version 1.0

SAP Integration and Certification Center



TABLE OF CONTENT

1.	INTRODUCTION.....	3
2.	ANALYTIC CONTENT PACKAGE FOR SAP BUSINESSOBJECTS DEVELOPMENT	4
2.1.	DEVELOPING WITH SAP BUSINESSOBJECTS PRODUCTS	4
2.2.	NON-SAP DATA SOURCES	4
2.3.	SAP ENTERPRISE INFORMATION MANAGEMENT	4
2.3.1.	DATA SERVICES	4
2.3.1.1.	NAMING CONVENTIONS.....	5
2.3.1.2.	CORRECTNESS	7
2.3.1.3.	TRANSPARENCY	8
2.3.1.4.	SECURITY.....	8
2.4.	SAP BUSINESSOBJECTS ENTERPRISE PERFORMANCE MANAGEMENT.....	9
2.4.1.	SAP BUSINESSOBJECTSPANNING AND CONSOLIDATION PLAN FOR THE MICROSOFT PLATFORM	9
2.4.2.	SAP BUSINESSOBJECTS PLANNING AND CONSOLIDATION PLAN FOR SAP NETWEAVER ...	9
2.5.	SAP BUSINESSOBJECTS BI PLATFORM AND EDGE.....	9
2.5.1.	SAP BUSINESSOBJECTS BI PLATFORM AND EDGE SDK.....	9
2.5.2.	SAP DASHBOARD DESIGN (FORMERLY KNOWN AS XCELSIUS ENGAGE) 2008 COMPONENT SDK.....	9
3.	ANALYTIC CONTENT PACKAGE FOR SAP BUSINESSOBJECTS REQUIREMENTS.....	10
3.1.	COMPLETENESS.....	10
3.2.	SYNTACTICAL CORRECTNESS	10
3.3.	EXECUTION	10
3.4.	PERFORMANCE	10
3.5.	DOCUMENTATION	10
3.5.1.	INSTALLATION GUIDE DOCUMENT.....	11
3.5.2.	USER GUIDE DOCUMENT	11
3.5.3.	BLUEPRINT DOCUMENT	11
4.	APPENDIX	12
4.1.	SAP BUSINESSOBJECTS USEFUL LINKS	12

1. INTRODUCTION

SAP BusinessObjects portfolio address any Business Analytics requirement – from flexible ad hoc reporting and analysis, to dashboards and visualization, to powerful data integration and quality as well as prepackaged data mart solutions.

Third party vendors can submit their BusinessObjects Analytic Content package to SAP for certification. This document describes such certification requirements.

Related Document

- Analytic Content Package for SAP BusinessObjects Technical Product Profile

Prerequisite Certification

- Partners and ISVs need access to SAP BusinessObjects software to develop and deploy the analytic content package. The necessary software may be obtained separately from SAP. In some cases, it may be part of the benefits of a specific SAP partner program, or be included as part of a hosted SAP development environment – partners should check with their partner manager or SAP ICC for details.
- The package must integrate only with SAP Business Objects products and version that are under SAP mainstream maintenance

Additional Considerations

- In cases where the analytic package makes use of updates SAP backend applications (or includes custom ABAP programming) , SAP ICC may require additional certification checks, for example, ABAP Add-on certification. This must be discussed and documented in the **Analytic Content Package for SAP BusinessObjects Technical Product Profile.doc**
- This certification will verify the rightness of the solution from a technical and a functional standpoint, but it will not certify the correctness of the data shown by the frontends included in the package; since it will depend on the specific implementation of the content at a customer's site.
- In case that the package needs of any 3rd software for its correct use (e.g. database), the third party vendor must obtain valid 3rd party software licenses needed for the certification testing such as deployment and functional test.

2. ANALYTIC CONTENT PACKAGE FOR SAP BUSINESSOBJECTS DEVELOPMENT

This section includes generic and component-specific definitions and rules for certification.

2.1. Developing with SAP BusinessObjects Products

The partner is required to develop with SAP BusinessObjects supported versions and supported 3rd party application integration if applicable. To get the currently supported platforms and versions, please login to [SAP service marketplace](#) (require a valid login and password)

For SAP BusinessObject supported platforms on BI 4.0:

Help&Support > SAP BusinessObjects Support > Documentation > Supported Platforms/PARs > SAP BusinessObjects BI 4.0

For SAP BusinessObjects supported platform on XI 3.0, XI 3.1

Help&Support > SAP BusinessObjects Support > Documentation > Supported Platforms/PARs > SAP BusinessObjects Enterprise

For SAP BusinessObjects supported platform on Data Services

Help&Support > SAP BusinessObjects Support > Documentation > Supported Platforms/PARs > SAP BusinessObjects Data Services

For supported 3rd party application integration:

Help&Support > SAP BusinessObjects Support > Documentation > Supported Platforms/PARs > BusinessObjects Integration Software

2.2. Non-SAP Data Sources

Content package for Non-SAP data sources cannot directly be tested as part of the certification. In order to test the content package, the partner needs to provide a test data set that allows for the testing of the SAP BusinessObjects Data Services related part of the content.

2.3. SAP Enterprise Information Management

SAP BusinessObjects enterprise information management (EIM) solutions provide comprehensive information management functionality that can help you deliver integrated, accurate, and timely data – both structured and unstructured – across your enterprise. The following certification guidelines apply when building analytic content packages:

2.3.1. Data Services

Data Service includes two main components, Data Integrator and Data Quality, which can be licensed modular. Data Services content packages can span functionality of both components and the following chapter abstracts form the individual component. All content packages need to be compatible with the currently supported version Data Services for getting certified. See section 2.1 on the Data Services currently supported platform and versions.

Content packages are certified for one or more versions of Data Services as specified by the partner and discussed in section 2.1.

For information on best practices on Data Services, please see Appendix 4 of this document.

The following paragraphs provide a guideline for requirements and best practices to be considered as part of the certification process.

2.3.1.1. Naming Conventions

Clear naming conventions are an important piece of content packages created on and for SAP BusinessObjects Data Services. Not only to provide transparency through readability, they also help with troubleshooting, separating customer specific logic from the original content and to avoid conflict, if different content packages are loaded into the same Data Services Repository. The naming conventions should be described as part of the documentation to educate the customer and allow for faster navigation through the configuration provided by the content package and the naming convention should be used consistently in the content configuration. Including a unique identifier, like company name plus version or package name or abbreviations of those, proved to be useful to distinguish between content from different packages.

The following section provides an example based on the SAP BusinessObjects Rapid Mart packages to describe how a naming convention model can be defined. The usage of this naming convention is not mandatory and is mentioned here purely as an example for explanation

Example: SAP BusinessObjects Rapid Marts naming convention (partial extract) for integrated ETL model:

ETL Object Type	Convention Followed
Project	<p>A Data Services project is a grouping of ETL jobs. A Rapid Mart consists of a single project.</p> <ol style="list-style-type: none"> 1. Project name is in mixed case. 2. Use underscore between project name words for readability. 3. Recommended name length is 30 characters; maximum length is 60 characters. 4. Naming convention: <Rapid Mart name>_Rapid_Mart_<Source application derived> <p>Example: General_Ledger_Rapid_Mart_SAP</p>
Job	<p>A Rapid Mart can have one or multiple jobs</p> <ol style="list-style-type: none"> 1. Job name is in mixed mode 2. Use underscore between job name words for readability 3. Recommended name length is 30 characters; maximum length is 60 characters 4. Naming convention: <Rapid Mart name>_Load_<Source application abbreviation> <p>Example: Plant_Maintenance_Load, Accounts_Payable_Load_SAP</p> <p>5.Exceptions in the SAP BusinessObjects General Ledger Rapid Mart version for SAP solutions:</p> <ul style="list-style-type: none"> • The two main Jobs have an additional qualifier <_OLD_> or <_NEW_> to distinguish the jobs for Classic or New General Ledger respectively: <p style="padding-left: 40px;">General_Ledger_OLD_Load_SAP General_Ledger_NEW_Load_SAP</p>
Workflow	<p>A workflow in Rapid Marts represents a re-usable component or a container for logical grouping Data Services objects (other workflows and data flows).</p> <ol style="list-style-type: none"> 1. For a component, name format is C_<target table descriptive name>_SAP. 2. For a section (collection of elements to load tables in a single star), name format is C_<star descriptive name>_Section_SAP. 3. For a grouping container that wraps all dimension related components within a section, name format is WF_<star descriptive name>_Dims_SAP. 4. For other grouping containers, name format is WF_<purpose of grouping>_SAP. 5. Use mixed case for readability. 6. Consistent naming of middle part of each name for proper sorting of workflows in Data Services Object Library. 7. Recommended name length is 30 characters; maximum length is 60 characters. <p>Examples:</p> <p>C_ProfitCenter_Section_SAP - section, a collection of components to load a single star (fact table and corresponding dimensions)</p> <p>C_ProfitCenterFact_SAP, C_ProfitCenterHier_SAP - components, reusable workflows to load a</p>

	<p>dimension or a fact table</p> <p>WF_ProfitCenter_Dims_SAP - dimension grouping element; for code Readability</p> <p>WF_ProfitCenterFactOldGL_SAP, WF_ProfitCenterFactFirstOldGL_SAP,</p> <p>WF_ProfitCenterFactDeltaOldGL_SAP - grouping elements named after their main purpose to load Cost Summary Fact tables during First and Delta loads</p>
Dataflow	<p>A dataflow in Rapid Marts represents an element of the component that loads a single or multiple Rapid Mart tables.</p> <ol style="list-style-type: none"> 1. For regular dataflows, name format is DF_<target table descriptive name or purpose>_SAP. 2. For embedded dataflows, name format is EDF_<target table descriptive name or purpose>_SAP. 3. For R/3 data flows, name format is R3_<target table descriptive name or purpose>. R/3 data flows are only used for extracting data out of SAP solutions. 4. Use mixed case for readability. 5. Consistent naming of middle part of each name for proper sorting of data flows in Data Services Object Library. 6. Recommended name length is 30 characters; maximum length is 60 characters. <p>Examples:</p> <p>DF_ProfitCenterHier_SAP, DF_ProfitCenterHierHzVr_SAP</p> <p>DF_ProfitCenterHierHzVrDefault_SAP - regular dataflows</p> <p>EDF_ProfitCenterHierR3_SAP, EDF_ProfitCenterDefaultRow_SAP - embedded dataflows</p> <p>R3_ProfitCenterHierGroup, R3_ProfitCenterHierLeaf - R/3 dataflows.</p>

2.3.1.2. Correctness

The content package provided for certification needs to be importable via the Data Services Designer's native functionality for import of configuration for all the supported versions of the content. For example, if the content supports Data Services 3.2 and Data Service 4.0 the content needs to be importable/callable on both without any errors.

This also includes any custom functions, scripts, data content as well as any scripts and code in supported programming languages (like ABAP or Python, called or embedded) that are part of the solution. In case of significant custom ABAP extensions provided as part of the content, which are not directly generated by Data Services, an additional ABAP add-on certification might be required.

Internal validation functions in Data Services Designer on different configuration levels should be ran before the packaging of the content packages to ensure correctness on the different platforms before shipment.

2.3.1.3. Transparency

As mentioned in section 2.4.1.1, it is essential to provide a consistent naming standard throughout the content packages, which allows the customer to easily navigate the configuration content and understand the logic. In addition constructs and configuration elements that solve specific and complex problems should be documented in the product specific documentation as well as in the Data Services configuration objects too. Comments and description for elements should be used to highlight important settings and document specific behaviors directly in the code. This increases readability of the configuration and allows for faster troubleshooting procedures.

It is essential, that the version of the content product is visible not only in the documentation, but also directly within the Data Services designer on related configuration objects. This can be achieved in multiple ways like:

- Initialize script on Jobs include the commented version of the content package
- Descriptions as part of the properties of configuration elements, like jobs, workflows, and data flows can be used to specify the version
- Comments in jobs, workflows, and dataflows can be used to specify the content version

If scripts are included in the content for data services, important steps in the script should be printed to the logs to allow for better transparency during job execution and easier troubleshooting during execution. All scripts should be documented with comment blocks sufficiently to provide insight on the executed logic.

Custom functions and custom scripts in native coding languages (like ABAP and Python) need to be documented on their behavior to allow a risk analysis of the processed activity.

Different dataflow behavior for different data base types needs to be documented and reflected in the names of the configuration objects, if possible.

Example:

- If a specific data flow is introduced for Oracle DB vs MS SQLServer, because of different behavior. Such differences need to be commented in scripts, if those implement solutions for multiple approaches.
- Based on the db type different commands need to be executed in case of truncating tables via scripts.

2.3.1.4. Security

Even though content packages can be considered as add-ons to the application SAP BusinessObjects DataServices and therefore inherit the security features from it, it is important to validate the content for potential security risks and document best practices for the security measures that should be taken into consideration by the customer when using the content. This is especially important, if the content is used to either transfer sensitive information (like employee or health care data) or used to modify regulated information (like financial data), where an auditing might be necessary.

2.4. SAP BusinessObjects Enterprise Performance Management

SAP BusinessObjects Enterprise Performance Management (EPM) solutions empower organizations to manage all financial and operational strategies, planning, budgeting, forecasting, reporting, and analysis, while boosting profitability and cost optimization. The following certification guidelines apply when building analytic content packages:

2.4.1. SAP BusinessObjects Planning and Consolidation Plan for the Microsoft platform

When developing either industry-based or line of business content solution, partners are required to use the [standard delivered functionality](#) within SAP BusinessObjects Planning and Consolidation version for Microsoft.

2.4.2. SAP BusinessObjects Planning and Consolidation Plan for SAP NetWeaver

When developing either industry based or line of business based content solution, partners are required to use the [standard delivered functionality](#) available within SAP BusinessObjects Planning and Consolidation version for SAP NetWeaver.

2.5. SAP BusinessObjects BI Platform and Edge

SAP BusinessObjects Enterprise and BusinessObjects Edge are flexible and scalable information infrastructures that provide a comprehensive set of business intelligence (BI) tools on a single platform. The following certification guidelines apply when building analytic content packages:

2.5.1. SAP BusinessObjects BI Platform and Edge SDK

For partners extending their analytic content package by building third-party add-ons for SAP BusinessObjects Enterprise and Edge the use of the respective .Net and Java SDKs provided in SAP BusinessObjects is required. For [more details](#), see SDN.

2.5.2. SAP Dashboard Design (formerly known as Xcelsius Engage) 2008 Component SDK

For partners developing a new component, or modifying existing ones in Xcelsius, the use of the SP Dashboard Design (Xcelsius) 2008 SDK is required. For [more details](#), see SDN.

3. ANALYTIC CONTENT PACKAGE FOR SAP BUSINESSOBJECTS REQUIREMENTS

The certification is focused on the correctness and execution of the content from a technical side and it doesn't verify the actual business logic implemented by the content package for functional correctness. Third party BusinessObjects Analytic Content package must follow the rules defined in the Analytic Content package for SAP BusinessObjects Development in chapter 2 of this document and meet the following requirements:

3.1. Completeness

Your Analytic Content package must use at least one or more SAP BusinessObjects products.

3.2. Syntactical Correctness

Your Analytic Content package, provided in one or more files, is imported to the appropriate native SAP BusinessObjects products. The import must be completed without errors.

3.3. Execution

The partner must demonstrate that their Analytic Content package works as expected. During the execution, the system must not throw any errors when the content is configured and used as documented. In case of known and expected warnings, these need to be documented in the documentations available to the customer.

The partner is required to fill out the BusinessObjects Technical Product Profile document including the test scenario proposed by the partner, as a deliverable for the certification. The partner should list all functionality of their analytic content package, in terms of business processes. The granularity should be the one in the user manual.

3.4. Performance

Even though performance is not directly tested, the solution provided needs to align with the best practices on performance and the desire to provide the best performance to the customers. Due to the nature of the Analytic Content package, it is important to conduct performance testing to ensure that the package meets performance expectations such as response time, throughput, dashboards and reports updated, etc. The partner must provide the performance testing results. The partner also must document performance considerations and known limitations e.g. if customer builds an xelsius dashboard that can only handle a few hundred rows of data.

3.5. Documentation

The following documentations must be available at least one week in advance before the scheduled test drive:

- Installation Guide documentation
- User Guide documentation
- Blueprint documentation

3.5.1. Installation Guide document

- Must list the software components included in the analytic content package and its dependency on specific versions of those components
- Provide all necessary steps to configure the content initially and execute the job; including special procedures where the behavior differs between logic executed by the job
- Provide recommendations of the content for tuning and optimization
- Include best practices for first and delta loads and provide information on any restriction on the usage of the backend system during the time of execution
- In case of updates and new versions, the release note should highlight explicitly the configuration objects that changed to the earlier version to allow a review and risk analysis before upgrading the adopted content to the new update or release. Upgrade process should be documented as part of the standard installation documentation

3.5.2. User Guide document

- Must specify the supported industry if the analytic content package is designed to support for any industry specific
- Must stated if the analytic content package should be used as a template “as is”; or the customer can enhance it and if so to what degree of details
- Must identify all the configured objects and provide guidelines on customizing the objects to suit customer specific requirements
- Must provide clearly the policy for support and upgrade. It should state what support package (SP) levels for each component. For example, SP level for SAP NetWeaver, SP level for SAP Dashboard, version of MS SQL, etc.
- Must document performance considerations and known limitations
- Provide guidelines and best practices for first and delta loads
- Provide information on any restriction on the usage of the backend system during the time of execution

3.5.3. Blueprint document

- Provide a minimum of an overview of the solution with the delivery of the functionality

4. APPENDIX

4.1. SAP BusinessObjects Useful Links

[Business Intelligence Best Practice](#)

[Data Services Tips & Tricks](#)

[Data Services Performance](#)

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