Functional Specification Document

SAP Commerce CBM v.1.0

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Author: a.machnev (BA)

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INTRODUCTION

Purpose of the Document

The main goal of the document is to ensure that the owner's expectations and the scope of work are the same at the most basic level. The distinctive features of the document are:

- the designation of high-level requirements without profound technical details;
- user manual;
- third-party connection instructions.

POSITIONING

Business Opportunity

Commerce Cloud Backup and Migration (Commerce CBM) is the extension for the SAP Commerce Cloud 1808/1811 (on B2C Accelerator).

The main business opportunity of the designed extension is the technical expansion of the SAP Commerce Software platform with different cloud servers for managing backups and remote storages of media objects.

SAP Commerce CBM extension v.1.0 allows users to connect to any number of Amazon S3 and Dropbox accounts to:

1. Create backups of sites and catalogs with all media content "in one click";
2. Store and restore backups (ImpEx, CSV, media files) in one zip archive;
3. Quickly apply the created backup on any server;
4. Store copies of the whole site (or parts of it) to provide access to different development teams.

Problem Statement

The problem of creating backups of sites and catalogs affects SAP Commerce Software administrators. The proposed solution will simplify the creation of backups for non-standard clouds. After installing the module, the user will be able to:

1. Managing hot backups on different accounts of Amazon S3 and Dropbox storages;
2. One button with one file that contains all stuff related to content and media files from the CMS Site instead of a lot of ImpEx files related to the export process.

Installation and Access Levels Management

To use SAP Commerce CBM extension v.1.0, your project must use SAP Commerce 1808/1811

only!

1. Extract zip file into hybris/bin/custom directory.

2. Add to your localextensions.xml

                                         `<extension name="importexportcloud"/>`

                                         `<extension name="importexportbackoffice"/>`

3. Optionally redefine in your local.properties:

The custom DropBox client identifier (default AimprosoftHybrisPlugin/0.1.0)

dbx.request.config.client.identifier

Custom name of Stage catalog (default Staged)

staged.catalog.version.name

Custom name of Online catalog (default Online)

online.catalog.version.name

Your project URL (i.e. https://your-project-url.com:9002/backoffice/parseDropboxAuthCode)

cloud.storage.dropBoxStorageType.redirectUrl

4. Run ant clean all.

5. Update system from hac.

6. Module is ready.

In addition to a user-friendly Set Permissions Page, the module has a new perspective for the back office with a new role and group which restricts permissions to a chosen functionality.

⬤ 4A Fesenkivska Str.
Kharkiv, Ukraine, 61068

📞 US + 1 408 844 4477
UK + 44 020 8144 4696
UA + 38 057 771 40 20

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USER MANUAL: MAIN PROCESSES

Brief Flows

1. **As a User, I would like to import the backup of the site from the Dropbox account to use the previous version.**

IMPORT - > select Storage:Dropbox - > select Account:{accountName} - > CONNECT - > CHOOSE FILE - > START IMPORT TASK

2. **As a User, I would like to save a backup of the site in the Amazon S3 account to share it with my colleagues.**

EXPORT - > select Storage:Amazon S3 - > select Account:{accountName} - > CONNECT - > Export scope: Site - > select Site:{siteName} - > SET EXPORT PATH - > START EXPORT TASK

3. **As a User, I would like to view the history of all operations to find out the details of one of them.**

HISTORY - > Import Task Info (or Export Task Info) > choose an operation from the list

Storages: Select and Configuration

There are 3 supported Storages:

- Local storage
- Amazon S3
- Dropbox

By default, only local storage (user's hard drive) is available. After choosing this type of storage, there are no additional connection settings.

Amazon S3 Storage

Using Amazon S3 Storage as a source of backup or a target includes two steps:

1. Adding the connection credentials to the database;
2. Choosing credentials for each operation.

ADD NEW ACCOUNT button helps to create a new account configuration in the DB. There is no limit to the number of saved and active connections with Amazon S3 Storage.

Creation and editing located in a special AMAZON S3 ACCOUNT block. The "Name" field is the display name in the Account drop-down list. To fill all other fields, you need to use data from your Amazon S3 account. Instruction on how to set up the account is in Appendix B.

After pressing the SAVE button, credentials are saved and can be used to IMPORT and EXPORT tasks.

4A Fesenkivska Str.
Kharkiv, Ukraine, 61068

US + 1 408 844 4477
UK + 44 020 8144 4696
UA + 38 057 771 40 20

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Note! Validation of the connection occurs only after clicking the CONNECT button. If the command succeeds, the green information message is displayed, and the CONNECT button becomes inaccessible.

After adding the connection, the user can select it from the Account drop-down list and press the CONNECT button. After selecting an account, a User can edit credentials (EDIT), disconnect (DISCONNECT), or delete (REMOVE) each of them.

Dropbox Storage

Using Dropbox Storage as a source of backup or a target includes two steps:

1. Adding the connection credentials to the database;
2. Choosing credentials for each operation.

ADD NEW ACCOUNT button helps create a new account configuration in the DB. There is no limit to the number of saved and active connections with Dropbox Storage.

Creation and editing are located in a special DROPBOX ACCOUNT block. All fields are required. The "Name" field is the display name in the Account drop-down list. To fill all other fields, you need to use data from your Dropbox account. Instruction on how to set up the account is in Appendix C.

After pressing the SAVE button, credentials are saved and can be used to IMPORT and EXPORT tasks.

Note! Validation of the connection occurs only after clicking the CONNECT button. If the command succeeds, the green information message is displayed and the CONNECT button changes to AUTHORIZE. After authorizing a User can use Dropbox storage for import and export.

After adding the connection, users can select it from the Account drop-down list and press the CONNECT button. After selecting an account, a User can edit credentials (EDIT), disconnect (DISCONNECT) or delete (REMOVE) each of them.

Import Data Backup

Import is used to select, download, and install the backup archive created with SAP Commerce CBM.

Note! Before starting the import process, the server has to have the same settings as it had at the time of the backup preparation (Appendix A contains detailed instructions).

To start the backup import, a user has to:

1. open IMPORT page;
2. connect the Storage;
3. choose the file (CHOOSE FILE) in the selected Storage;
4. press START IMPORT TASK.

The "Import media content" checkbox means that the import processes include media files if they

4A Fesenkivska Str.
Kharkiv, Ukraine, 61068

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UK + 44 020 8144 4696
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exist in the selected backup archive.

The process of importing can take some time, depending on the file size. If the command succeeds, a User sees two messages: about downloading and successful data applying.

All warnings and errors are shown in relevant alerts.

All started import tasks appear in the history node, in the Import Task Info page.

Caution! If the selected backup contains media ("Export media content" checkbox had been pressed during Export Data Backup process) you can't disable the "Import media content" checkbox in the Import Data Backup process.

Export Data Backup

Export is the process of selecting the scope, site, and packing backup archive.

To start the backup import, a user has to:

1. open EXPORT page;
2. connect the Storage;
3. choose Export scope: "Site" (all catalogs related do the one site) or "Catalog + version" (A user can choose catalog for the import);
4. select Site / Catalog;
5. set the folder path to export (SET EXPORT PATH) in the selected Storage;
6. press START EXPORT TASK.

The "Export media content" checkbox means that during export processes, all related media files will be added to the backup archive.

The export process may take some time depending on the file size. If the command succeeds, a user sees the message about successful data exporting.

All warnings and errors are shown in relevant alerts.

Note! The default file name is unique, but for the user's convenience, it is possible to add a prefix to the file name (File name prefix) input.

All started export tasks appear in the history node, in the Export Task Info page.

4A Fesenkivska Str.
Kharkiv, Ukraine, 61068

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UK + 44 020 8144 4696
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APPENDIX

A. Preparing the Server for Site Import

I. Prepare the CMS Site for importing.

Log in to Back office as an admin user.

Note! In the further description, remove only items related to the Site to be imported.

Remove Items related to Product and Classification catalogs (optional). Do the following steps:

1. Catalog -> Products

Remove all the Products in Staged and Online Product catalog versions.

2. Multimedia -> Media

Remove all the Media related to Staged and Online Product catalog versions.

3. Multimedia -> Media Containers

Remove all the Media containers related to Staged and Online Product catalog versions.

4. Catalog -> Classification System -> Feature List

Remove all the Features related to Classification Catalog

5. Catalog -> Categories

Remove all the Categories related to Staged and Online Product catalog versions and Classification Catalog.

Remove Items related to Content Catalog. Do the following steps:

1. Remove all the Items related to Staged and Online Content catalog versions in the following nodes

(to have these nodes, you should have "cmsbackoffice" extension in your project):

WCMS ->

    Page Template

    Page

    ContentSlot

    Component

    Navigation Node

2. Multimedia -> Media

Remove all the Media related to Staged and Online Content catalog versions.

II. Import CMS Site in SAP CBM Module.

III. Adjust just Imported CMS Site.

Log in to the Back office as an admin user.

1. Synchronize the next catalog versions

Product Catalog:Staged -> Online

Content Catalog:Staged -> Online

2. System -> Search and Navigation -> Facet Search Configurations

Start full Indexation for imported Site Facet Search Configuration

4A Fesenkivska Str.
Kharkiv, Ukraine, 61068

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B. AWS S3 Storage Configuration

1. Login into https://console.aws.amazon.com/.

2. Open drop-down menu under your account name and choose "My security credentials".
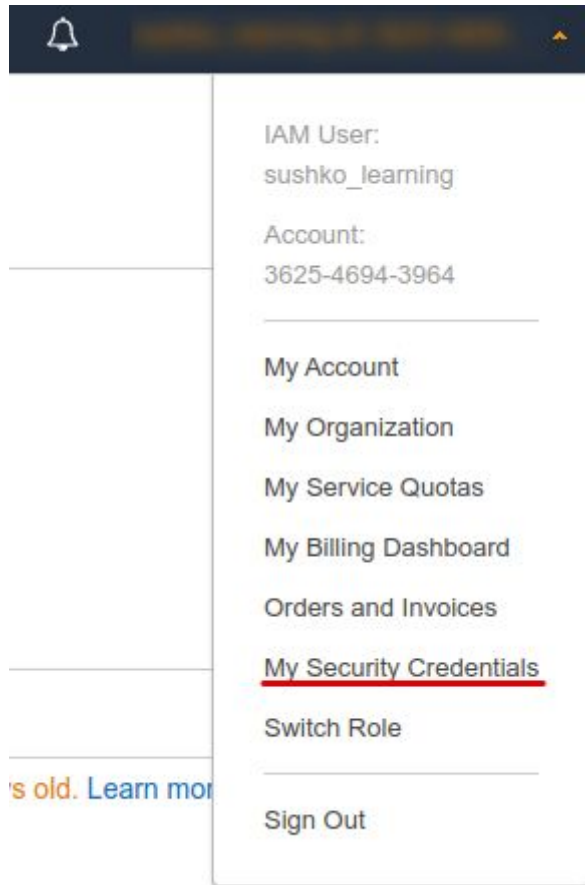
3. Press "Create access key", and copy "Access key ID" and "Secret key".

Recommendation: save the file with your credentials to your local device.

4. Create a new Bucket if you don't have one.

5. Open the Amazon S3 console at https://console.aws.amazon.com/s3/.

6. Choose "Create bucket".
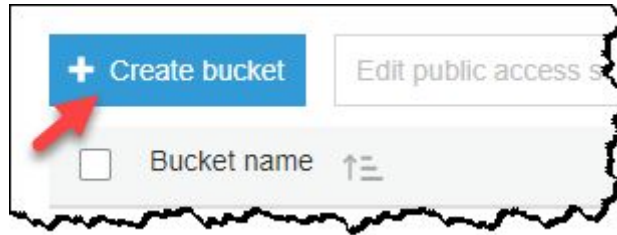
7. On the "Name and region" page, enter a name for your bucket, and choose the AWS Region where you want the bucket to reside. Complete the fields on this page as follows:

a. For the new Bucket Name, enter a unique DNS-compliant name. Follow these naming guidelines:

The name must be unique across all existing bucket names in Amazon S3.

The name must not contain uppercase characters.

The name must start with a lowercase letter or number.

The name must be between 3 and 63 characters long.

Note! After you create the bucket, you cannot change the name, so choose wisely.

Choose a bucket name that reflects the objects in the bucket because it is visible in the URL that points to the objects you're going to put in your bucket.

8. Leave the "Configure options" page without any changes.

8. On the Set permissions page, you manage the permissions that are set on the bucket you are creating. Set off checkbox "Block public access" (in the future, you can change it).

9. Once you have configured permissions on the bucket, choose Next.

10. On the Review page, verify the settings. If you want to change something, choose Edit. If your current settings are correct, choose Create bucket.

11. Go to CBM Module and choose Storage: Amazon S3

12. Press the ADD NEW ACCOUNT.

13. Fill inputs:

- Name – create your name for the account in module

- App key – copy from "AWS S3 Management console Access" field "Access key"

- Secret key – copy from the console or saved file "Security key".

- Region – copy from the console.

- Bucket name – copy from the console.

14. Press SAVE

15. Press CONNECT

4A Fesenkivska Str.
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C. Dropbox Storage Configuration

To connect the Dropbox account to SAP Commerce CBM, you have to create the Dropbox application.

1. Go to your account on https://www.dropbox.com/ or create it.

2. In the lower right corner find a button and push it.

3. Choose the "Developers" point.

4. Press "Create apps" or "App console" and "Create app" in-app console.

5. In the first step choose "Dropbox API". Then choose "Full Dropbox – Access to all files and folders in a user's Dropbox". And the "Last step" names your app, for example, the "CBM app" and push "Create app".

Create a new app on the DBX Platform

1. Choose an API

Dropbox API
For apps that need to access files in Dropbox. Learn more

Dropbox Business API
For apps that need access to Dropbox Business team info. Learn more

2. Choose the type of access you need

Learn more about access types

App folder – Access to a single folder created specifically for your app.

Full Dropbox – Access to all files and folders in a user's Dropbox.

3. Name your app

CBM app

Create app

6. On the opened page, with your app settings, you can see "App key" and "App secret".

Copy both of them into the SAP Commerce CBM:

     a) login into SAP Commerce with your credentials;

     b) In 'Storage' drop-down choose "Dropbox";

     c) And press ADD NEW ACCOUNT button;

     d) Fill all fields:

From Dropbox application "App key" to CBM new connection "App key";

From Dropbox application "App secret" to CBM new connection "App secret";

Fill a new connection name field, for example, "CBM Dropbox".

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UA + 38 057 771 40 20

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info@aimprosoft.com

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