
Google Cloud Storage as Content Repository

Steps to migrate from Open Source Version to GA Version

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1. Overview

1.1 Objective

This guide is aimed to help customers who are currently using the open source version of [Google Cloud Storage Content Repository Solution](#) to migrate to the GA version which is bundled with [ABAP SDK for Google Cloud v 1.10](#)

1.2 Prerequisites

[Open source solution](#) is installed and configured in the SAP system

2. Installation Steps

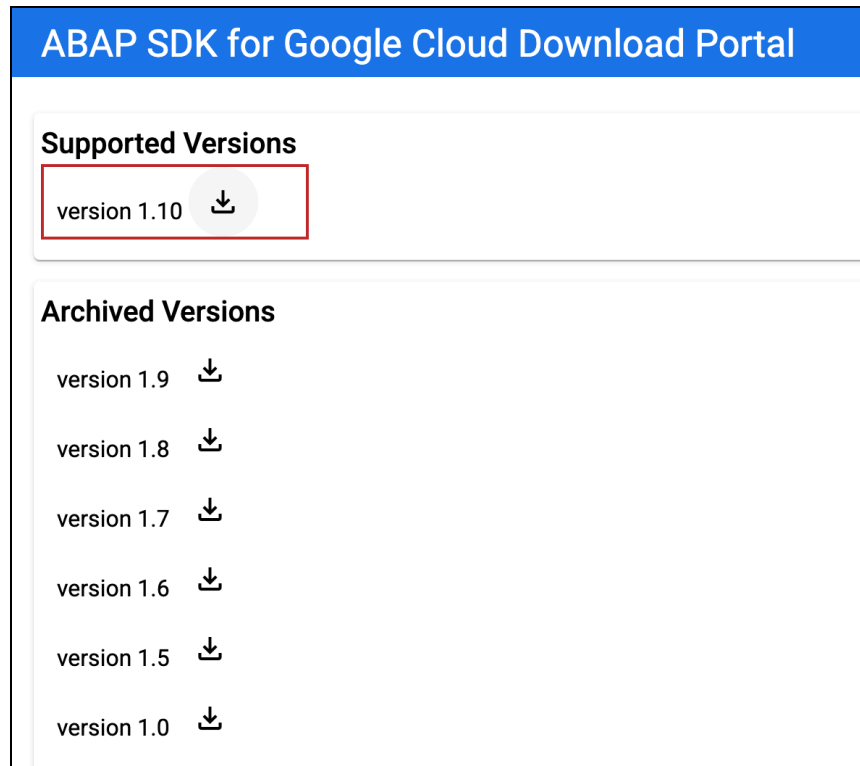
This guide will cover the following steps to migrate from the open source solution to the GA solution for Google Cloud Storage as content repository for SAP

1. [Import the transport request containing ABAP SDK for Google Cloud v1.10 product version](#)
2. [Copy Configurations](#)
3. [Change the Handler Class in SICF Node](#)
4. [Validation](#)

2.1 Import the Transport request (GA v1.10 Version)

Download the Installation Transport request from [ABAP SDK download portal](#). Import the files into the SAP ERP System.

Download the version 1.10 zip file, unzip it and install the TRs. Refer to the installation steps provided in the [Installation and Configuration Guide](#)



Check the objects have been generated successfully from transaction SE80.
Open the package `/GOOG/CONT_REPO`.

Right-click on the package name and navigate to **Check > Package Check > All Objects of Package**.

Confirm all objects are passing the checks.

2.2 Copy Configurations

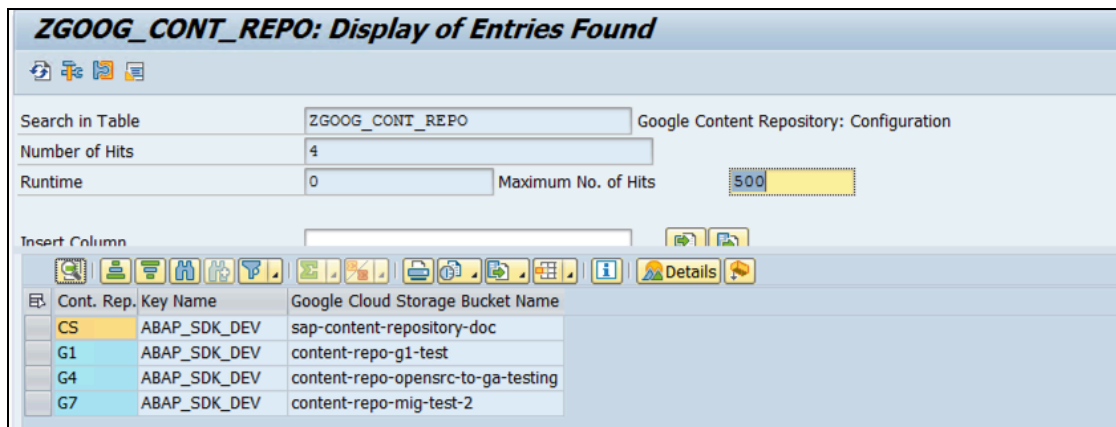
As a part of this step, we will copy the existing settings from the ZGOOG_CONT_REPO table to the /GOOG/CONT_REPO table

There are 2 ways to copy configuration:

1. [Manually using SM30](#)
2. [Programmatically using ABAP Code](#)

2.2.1 Manually using SM30

Use transaction SE16N or SE16 to query the existing configuration in table ZGOOG_CONT_REPO.



ZGOOG_CONT_REPO: Display of Entries Found

Search in Table: ZGOOG_CONT_REPO Google Content Repository: Configuration
Number of Hits: 4
Runtime: 0 Maximum No. of Hits: 500

Insert Column

Cont. Rep.	Key Name	Google Cloud Storage Bucket Name
CS	ABAP_SDK_DEV	sap-content-repository-doc
G1	ABAP_SDK_DEV	content-repo-g1-test
G4	ABAP_SDK_DEV	content-repo-opensrc-to-ga-testing
G7	ABAP_SDK_DEV	content-repo-mig-test-2

Open a new session with transaction SM30 and use table /GOOG/CONT_REPO. Copy the entries from ZGOOG_CONT_REPO

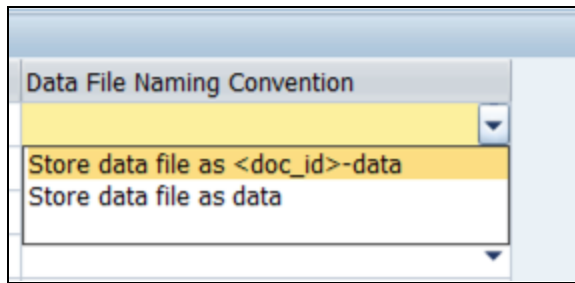


New Entries: Overview of Added Entries

Google Content Repository: Configuration

Cont. Rep.	Google Cloud Key Name	GCS Bucket Name	Data File Naming Convention
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Pay attention to the field Data File Naming Convention, from the drop down choose the highlighted value: **Store data file as <doc_id>-data**



2.2.2 Programmatically using ABAP Code

Alternatively, you can migrate the client settings through code using ABAP code:

Using transaction SE38 create a Z-program ZCOPY_CONT_REPO_SETTINGS and paste below code:

```
TYPES tt_repo TYPE STANDARD TABLE OF /goog/cont_repo WITH NON-UNIQUE DEFAULT KEY.
DATA ls_new_repo TYPE /goog/cont_repo.

SELECT * FROM zgoog_cont_repo
  INTO TABLE @DATA(lt_cont_repo).
IF sy-subrc = 0.

  DATA(lt_new_repo) = VALUE tt_repo( FOR <ls_old_repo> IN lt_cont_repo
    ( archive_id = <ls_old_repo>-archive_id
      bucket     = <ls_old_repo>-archive_id
      keyname    = <ls_old_repo>-keyname
      file_naming = 'A' ) ).

  MODIFY /goog/cont_repo FROM TABLE lt_new_repo.
  COMMIT WORK.
IF sy-subrc = 0.
  WRITE / |Configurations copied over to /GOOG/CONT_REPO|.
ELSE.
  WRITE / |Failed to update /GOOG/CONT_REPO table|.
ENDIF.
ELSE.
  WRITE / |No data found in ZGOOG_CONT_REPO table|.
ENDIF.
```

Note: Review and compare configurations to make sure the new one matches the old one.

2.3 Change the Handler Class in SICF Node

You would have set up an SICF node and configured an handler class as per instructions provided [here](#)

Create/Change a Service

Path: /default_host/sap/bc/

Service Name: archivelink ☒ Service (Active)

Lang.: English

Description

Description 1: Google Cloud Storage Content Repository

Description 2: GCS Archivelink Repo

Description 3:

Service Data | Logon Data | **Handler List** | Error Pages | Administration

Handler List (in Order of Execution)

N.	Handler
1	ZGOOG CL CONTENT REPO GCS
2	
3	
4	
5	
6	
7	

BEFORE

SAP DOC (3) 100

You will have to change the handler class to point it to the class available in the GA solution. The new handler class should be /GOOG/CL_CONTENT_REPO_GCS

Create/Change a Service

Path: /default_host/sap/bc/

Service Name: archivelink ☒ Service (Active)

Lang.: English

Description

Description 1: Google Cloud Storage Content Repository

Description 2: GCS Archivelink Repo

Description 3:

Service Data | Logon Data | **Handler List** | Error Pages | Administration

Handler List (in Order of Execution)

N.	Handler
1	/GOOG/CL_CONTENT_REPO_GCS
2	
3	
4	
5	
6	
7	

AFTER

Service saved

SAP DOC (3) 100

3. Validation

Now, that you have copied over the configurations and changed the handler class you should be all set.

Perform the below recommended steps to ensure your content repository is working as expected with following actions

- Validate the connection test for the Content Repository in transaction OAC0

Display Content Repositories: Detail

Simple admin. Full administration

Content Rep. [redacted] Active 84 / 169

Description [redacted]

Document Area ArchiveLink

Storage type HTTP content server

Version no. 0047 Content Server Version 4.7

HTTP server [redacted].com

Port Number 8000 SSL Port Number [redacted]

HTTP Script sap/bc/archivelink

Transfer drctry [redacted]

Phys. path /usr/sap/DOC/SYS/global/

HTTPS on frontend no HTTPS HTTPS on backend no HTTPS

CS Admin

Connection test for content repository [redacted] was successful

- Run the test programs (RSCMST, RSCMSTH2) for your Content Repo in your Development and QA systems and ensure test programs are executed successfully.
- Check if the existing attachments to the business objects can be successfully accessed

4. Conclusion

You have now successfully migrated from the sample open source solution of Google Cloud Storage as content repository for SAP to the GA version.