

Bridge building tool for integration between CA ESP and Control-M

Overview

This tool automates a "Bridge" creation between CA ESP <-> Control-M, which reduces the manual work involved, when converting CA ESP data to Control-M.

The "Bridges" between CA ESP and Control-M are needed during the Conversion process when part of the flow is converted and running in Control-M and part is still running in CA ESP.

The Bridge builder utility gets CA ESP <-> Control-M bridges definitions information as input data and builds the following:

- **Control-O rules:** Implements the CA ESP to Control-M Bridges
- **Control-M MF Jobs:** Implements the Control-M to CA ESP bridges

Before you begin

You need to do the following:

1. Understand which bridges need to be created between CA ESP and Control-M.
2. Create a bridges definitions csv file that contains the following information:
 - CA ESP APPL/Job name
 - CTM Job full path name (Folder/Job name)
 - Bridge Type, which supports the following options:
 - **ESPDS_CTMDS** (bridge from ESP DS to CTM DS)
 - **ESPDS_CTMMF** (bridge from ESP DS to CTM MF)
 - **ESPMF_CTMDS** (bridge from ESP MF to CTM DS)
 - **ESPMF_CTMMF** (bridge from ESP MF to CTM MF)
 - **CTMDS_ESPMF** (bridge from CTM DS to ESP MF)
 - **CTMMF_ESPDS** (bridge from CTM MF to ESP DS)
 - **CTMDS_ESPDS** (bridge from CTM DS to ESP DS)
 - **CTMMF_ESPMF** (bridge from CTM MF to ESP MF)

For more information, see [Bridges Information file example](#).

3. Set the bridges conditions prefixes you want to use per bridge type in "bridgeConditionsPrefixes.cfg" file in **home>\tools\CAESP\BridgeBuilder**
4. Create the Control-O rule template that you want to use as input for the bridge builder by using the **cto_rule_template** file in the **home>\tools\CAESP\BridgeBuilder\Examples** folder.

5. Create the Control-M MF SMART folder and job data that you want to use as input for the bridge builder, by using the **ctm_mf_data_template** file in the **home>\tools\CAESP\BridgeBuilder\Examples** folder.

NOTE: The templates contain place holders values (example: @MSG_ID@) that are being replaced by the bridge builder. They should be kept in the same format.

➤ **To run the Bridge Builder from CLI:**

1. Open a command prompt and go to the **<conversion home>\tools\CAESP\BridgeBuilder** directory.

2. Type the following command:

```
bridgebuilder.bat -bridgesData bridgesInfo.csv -ctmTemplate ctmTemplate.xml  
- ctoTemplate ctoTemplate.txt -outputDirectory c:\BridgeOutput\
```

Bridge Builder CLI parameters

The following table describes the Bridge Builder parameters:

Parameters	Description
bridgesData	(Mandatory) Path to csv file with the required bridges information. For more information, see Bridges Information file example .
ctmTemplate	(Optional) Path to Control-M MF data template that will be used to create Control-M MF Bridges Jobs.
ctoTemplate	(Optional) Path to Control-O template that will be used to create Control-O Bridges rules.
outputDirectory	(Optional) Path to the directory where BridgeBuilder outputs will be created.

Bridges Information file example

CA ESP Job, CTM Job, Bridge Type

APPL1\JOB1,FOLDER1\JOB1,ESPDS_CTMDS

APPL2\JOB2,FOLDER2\JOB2,ESPMF_CTMMF

NOTE: You should keep the headers (first line)

Bridge builder outputs and how to use them to implement the bridges

The bridge builder creates three outputs:

- **Bridge_Trigger_Jobs.xml:** Holds the new MF folder that contains all the additional MF jobs that trigger ESP jobs.
NOTE: Will be created only if bridges that trigger CA ESP jobs after Control-M jobs are needed.
- **CTORULS:** A text file that holds all the Control-O Rules definitions created for triggering Control-M jobs after CA ESP jobs ends.
- **AdjustCtmConditions.xlsx:** An excel file that contains the names of all Control-M jobs that need to rename their existing In/Out Condition to fit the Bridges Builder outputs.

To complete the bridge definitions, the following manual actions should be performed:

1. Copy **CTORULS** file to the MF Control-O Rules Library in text mode.
2. Add **Bridge_Trigger_Jobs.xml** to the workspace that contains the Control-M converted data that need to trigger CA ESP jobs and check it in.
3. Review **AdjustCtmConditions.xlsx** file and update the existing In/Out Conditions as required.