CIS Update – Part Library - Synchronization with Teamcenter

Installation Notes & User Guide – Aug 2023

MOOG

Document Details

Installation Instruction Document	
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Process Title	CIS Property Update
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V1.0	Initial draft	Sanjeev Beemidi	EDA Integrator	16 Aug 2023

Contents

1.   Introduction
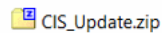
1.1.   Installation – Prerequisites

1.1.1. Java Availability:

- Check in the system has Java available in the following directory path, **"C:\Siemens\Tc13\java**"
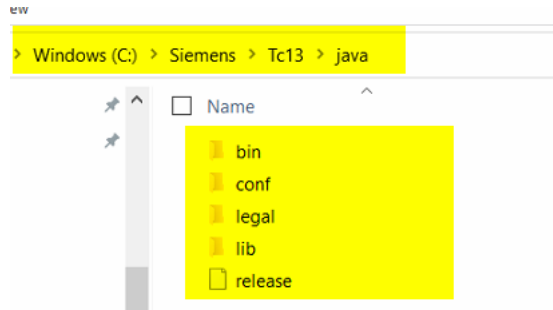
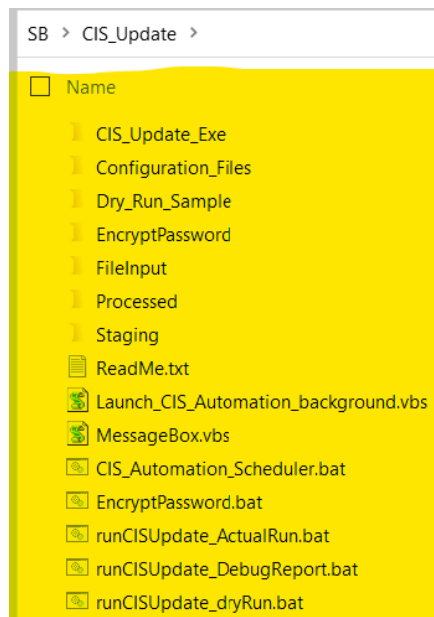## 1.2.   Installation – Unpacking

- Download the CIS_Update.zip from repository.

- Unzip the CIS_Update.zip into the local directory of the system.

- After, extraction the following content will be available in the extracted directory.
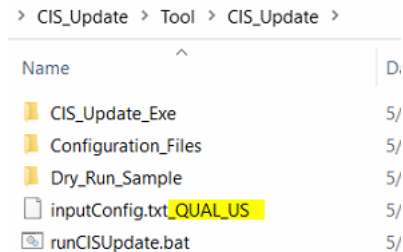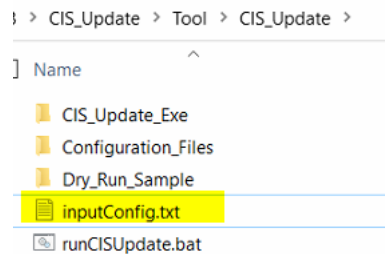

1.3.   Installation – Configuration

- On Unzip directory, open the "**Configuration_Files**" folder.

- Inside the folder, the environment specific configuration text file available. The environment name added as suffix on txt file name.

CIS_Update > Tool > CIS_Update > Configuration_Files

	Name	Date n
	inputConfig.txt_QUAL_US	5/9/20
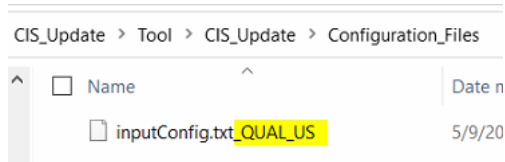
- Copy the desired environment file and paste it under "**CIS_Update**" folder.

> CIS_Update > Tool > CIS_Update >

Name	D.
CIS_Update_Exe	5/
Configuration_Files	5/
Dry_Run_Sample	5/
inputConfig.txt_QUAL_US	5/
runCISUpdate.bat	5/

- Remove the environment name from the copied "**inputConfig.txt**" file name.

> CIS_Update > Tool > CIS_Update >

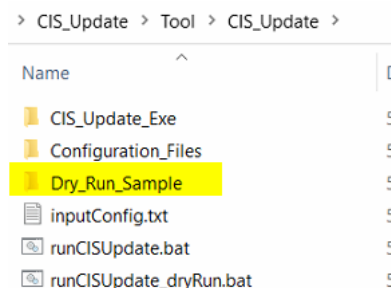| Name |
|---|
| CIS_Update_Exe |
| Configuration_Files |
| Dry_Run_Sample |
| inputConfig.txt |
| runCISUpdate.bat |

- Open the **"inputConfig.txt"** file in Text editor and the below highlighted section. CISHomePath, refers where the tool input, log, reports directory needs.
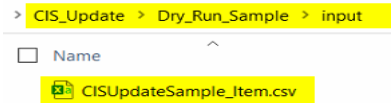
```
#<ConfigName>=<ConfigValue>
CISHomePath=<UPDATE_EXECUTION_DIR_FULL_PATH>
InputCSVPath=$CISHomePath$\\input
ReportsPath=$CISHomePath$\\reports
LogsPath=$CISHomePath$\\logs
TC_4Tier_URL=https://USTC13QW01.MOOG.COM:8443/tc
```

1.4.   Installation - Dry Run

- To verify the **CIS_Update** utility, a sample folder provided in the same directory. **"Dry_Run_Sample".**

> CIS_Update > Tool > CIS_Update >

Name	[
CIS_Update_Exe	5
Configuration_Files	5
Dry_Run_Sample	5
inputConfig.txt	5
runCISUpdate.bat	5
runCISUpdate_dryRun.bat	5

- Make sure, that the **Dry_Run_Sample** has "**input**" directory and sample "input" csv file exists in it.

- Open the **inputConfig.txt** file and update the **CISHomePath** to **'Dry_Run_Sample'** directory path.

- Please run EncryptPassword.bat file to Encrypt your Teamcenter Password. Enter your password and **copy the Encrypted Text**.

- Select file **"runCISUpdate_dryRun.bat" -> Right click -> Edit** and provide your Teamcenter Username, Password (Please provide encrypted password), Group as shown in below image and save it.

- Launch **"runCISUpdate_dryRun.bat"**. On Run of batch script, the dry run will start.

> CIS_Update > Tool > CIS_Update

Name

- CIS_Update_Exe
- Configuration_Files
- Dry_Run_Sample
- inputConfig.txt
- runCISUpdate.bat
- runCISUpdate_dryRun.bat

```
configVarName TC_SSO_APPID
inputFile is outside C:\\SB\\CIS_Update\\Tool\\CIS_Update\\Dry_Run_Sample\\input
Connecting To : https://USTC13QW01.MOOG.COM:8443/tc
Input Files Folder Path : C:\\SB\\CIS_Update\\Tool\\CIS_Update\\Dry_Run_Sample\\input
Report Folder Path : C:\\SB\\CIS_Update\\Tool\\CIS_Update\\Dry_Run_Sample\\reports
Log Folder Path : C:\\SB\\CIS_Update\\Tool\\CIS_Update\\Dry_Run_Sample\\logs
USEA1LPG2STQG3.08839.01.Anonymous.00001: Core-2008-06-Session.loginSSO
USEA1LPG2STQG3.08839.01.Anonymous.00001.01.Anonymous.00002: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.08839.01.Anonymous.00001.01.Anonymous.00003: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.08839.01.Anonymous.00001.01.Anonymous.00004: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.08839.01.Anonymous.00001.01.Anonymous.00005: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.08839.01.Anonymous.00001.01.Anonymous.00006: Core-2007-01-Session.getTCSessionInfo
Login Success.User : Beemidi, Sanjeev
USEA1LPG2STQG3.08839.01.sbeemidi.00007: Query-2006-03-SavedQuery.getSavedQueries
USEA1LPG2STQG3.08839.01.sbeemidi.00007.01.sbeemidi.00008: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.08839.01.sbeemidi.00009: Core-2008-06-Session.setObjectPropertyPolicy
INFO : Set object policy completed
INFO : Properties going to  update for item ID : PLM-TC0077789
INFO : Number of attributes going to  update for item ID/Count: PLM-TC0077789/2
USEA1LPG2STQG3.08839.01.sbeemidi.00010: Query-2007-06-SavedQuery.executeSavedQueries
WARNING : Item not found in Teamcenter.Item going to create PLM-TC0077789
INFO : Item will be created PLM-TC0077789
INFO : Properties going to  update for item ID : PLM-TC0077779
INFO : Number of attributes going to  update for item ID/Count: PLM-TC0077779/2
USEA1LPG2STQG3.08839.01.sbeemidi.00011: Query-2007-06-SavedQuery.executeSavedQueries
WARNING : Item not found in Teamcenter.Item going to create PLM-TC0077779
INFO : Item will be created PLM-TC0077779
USEA1LPG2STQG3.08839.01.sbeemidi.00012: Core-2006-03-Session.logout
"*************************************************************************************"
"********************* Utility Exceuction Completed... ******************************"
"************* Kindly Check for the Logs & Report Folder for more details.... ***************"
"*************************************************************************************"
Press any key to continue . . .
```
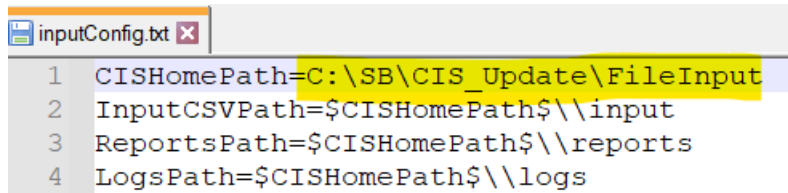
- After successful completion of batch run, the following output folder should be available inside the Dry_Run_Sample directory.

☐ Name

- input
- logs
- reports

Note: If any of the steps above failed, connect with Teamcenter Admins to resolve the issue, and proceed further on tool setup.
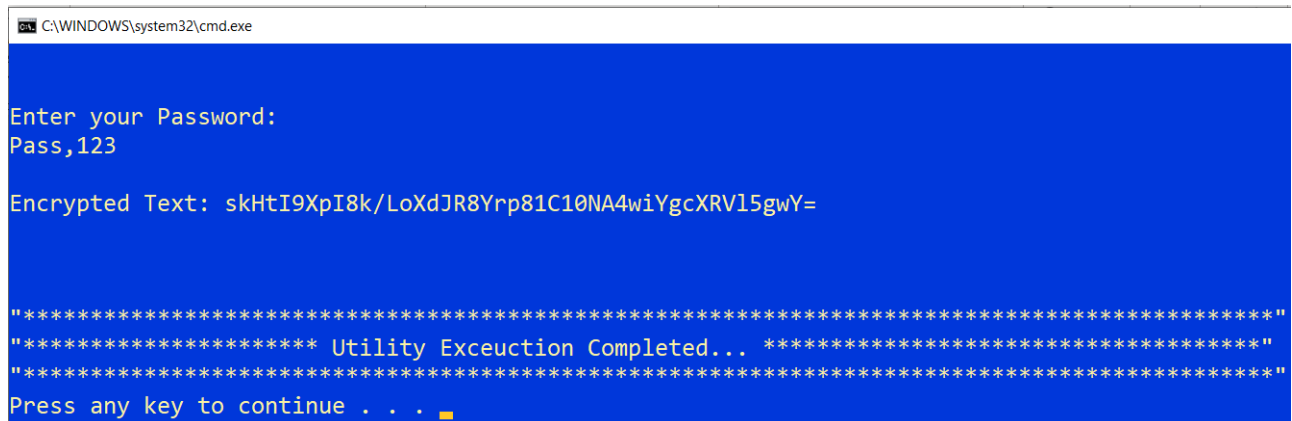
1.5.   Installation – Actual Run

- Open the **inputConfig.txt** file and update the **CISHomePath** to **'FileInput'** directory path.

```
inputConfig.txt
1   CISHomePath=C:\SB\CIS_Update\FileInput
2   InputCSVPath=$CISHomePath$\\input
3   ReportsPath=$CISHomePath$\\reports
4   LogsPath=$CISHomePath$\\logs
```

  - So here, based on the above mapping **InputCSVPath** will be C:\SB\CIS_Update\FileInput\input. You need to provide your input CSV files in this directory.

  - Reports will be available in C:\SB\CIS_Update\FileInput\reports.

  - Logs will be available in C:\SB\CIS_Update\FileInput\logs.

  - For Input file samples you can use the dry run samples folder.

- Please run EncryptPassword.bat file to Encrypt your Teamcenter Password. Enter your password and **copy the Encrypted Text**.

```
C:\WINDOWS\system32\cmd.exe

Enter your Password:
Pass,123

Encrypted Text: skHtI9XpI8k/LoXdJR8Yrp81C10NA4wiYgcXRVl5gwY=


"**************************************************************************************"
"********************** Utility Exceution Completed...  ****************************"
"**************************************************************************************"
Press any key to continue . . .
```

- Select file **"runCISUpdate_ActualRun.bat" -> Right click -> Edit** and provide your Teamcenter Username, Password (Please provide encrypted password), Group as shown in below image and save it.

```
runCISUpdate_ActualRun.bat - Notepad
File  Edit  Format  View  Help
@ECHO OFF
SETLOCAL EnableDelayedExpansion

cls
SET JAVA_HOME=D:\Apps\Java\jdk-11.0.8jre
SET PATH=%PATH%;%JAVA_HOME%\bin
SET CUR_DIR=%cd%

set TC_USER_NAME=<Your-UserName>
set TC_PASSWORD="<Your-TC-Password>"
set TC_GROUP=<TC_Group>
set CONFIG_FILE="%CUR_DIR%\inputConfig.txt"

%CUR_DIR%\CIS_Update_Exe\CIS_Update_nonSSO.exe -u=%TC_USER_NAME% -p=%TC_PASSWORD% -g=%TC_GROUP% -file=%CONFIG_FILE% -c
GenReport=false

ECHO "**************************************************************************"
ECHO "********************* Utility Exceution Completed...! ********************"
ECHO "************* Kindly Check for the Logs & Report Folder for more details....! ***************"
ECHO "**************************************************************************"
```

Sample Data:
```
set TC_USER_NAME=SamAnderson
set TC_PASSWORD="IjUZC22JMkWOX6/18L5PqUe3VL1hJbPqL1dfVdh676c="
set TC_GROUP=Productions
set CONFIG_FILE="%CUR_DIR%\inputConfig.txt"
```
Note: Please provide " in the beginning and end of the password

- Once you have proper CSV input files in input folder, Launch **"runCISUpdate_dryRun.bat"**. On Run of batch script, the actual run will start. (Note: this will make change in Teamcenter.)

SB › CIS_Update

☐ Name

📁 CIS_Update_Exe
📁 Configuration_Files
📁 Dry_Run_Sample
📁 EncryptPassword
📁 FileInput
📁 Processed
📁 Staging
📄 CIS_Update_InstallNotes_V1.0.docx
📄 ReadMe.txt
📄 Launch_CIS_Automation_background.vbs
📄 MessageBox.vbs
📄 CIS_Automation_Scheduler.bat
📄 EncryptPassword.bat
☑ 📄 runCISUpdate_ActualRun.bat
📄 runCISUpdate_DebugReport.bat
📄 runCISUpdate_dryRun.bat

```
configVarName TC_4Tier_URL
inputFile is outside C:\SB\CIS_Update\FileInput\\input
Connecting To : https://USEA1SVTCECAD01.moog.com:8443/tc
Input Files Folder Path : C:\SB\CIS_Update\FileInput\\input
Report Folder Path : C:\SB\CIS_Update\FileInput\\reports
Log Folder Path : C:\SB\CIS_Update\FileInput\\logs
16
16
USEA1LPG2STQG3.00937.01.Anonymous.00001: Core-2008-06-Session.login
USEA1LPG2STQG3.00937.01.Anonymous.00001.01.Anonymous.00002: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.00937.01.Anonymous.00001.01.Anonymous.00003: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.00937.01.Anonymous.00001.01.Anonymous.00004: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.00937.01.Anonymous.00001.01.Anonymous.00005: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.00937.01.Anonymous.00001.01.Anonymous.00006: Core-2007-01-Session.getTCSessionInfo
Login Success.User : infodba
trying to set bypass for DBA...
USEA1LPG2STQG3.00937.01.infodba.00007: Core-2007-12-Session.setUserSessionState

Modified Objects handled in com.teamcenter.clientx.AppXUpdateObjectListener.modelObjectChange
The following objects have been updated in the client data model:
    BOM::99840 UserSession
Passed... trying to set bypass for DBA...
USEA1LPG2STQG3.00937.01.infodba.00008: Query-2006-03-SavedQuery.getSavedQueries
USEA1LPG2STQG3.00937.01.infodba.00008.01.infodba.00009: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.00937.01.infodba.00010: Core-2008-06-Session.setObjectPropertyPolicy
INFO : Set object policy completed
Started Reading Input File: C:\SB\CIS_Update\FileInput\\input\ExportCIS_LotSize_10_16h15_9-August-2023F3_Item.csv
Finished Reading Input File: C:\SB\CIS_Update\FileInput\\input\ExportCIS_LotSize_10_16h15_9-August-2023F3_Item.csv

START--->Processing [1/1], Item id [03024-022P]
INFO : Properties going to  update for item ID : 03024-022P
INFO : Number of attributes going to  update for item ID/Count: 03024-022P/3
USEA1LPG2STQG3.00937.01.infodba.00011: Query-2007-06-SavedQuery.executeSavedQueries
USEA1LPG2STQG3.00937.01.infodba.00011.01.infodba.00012: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.00937.01.infodba.00013: Core-2007-09-DataManagement.loadObjects
```

```
START--->Processing [1/1], Item id [03024-022P]
INFO : Properties going to  update for item ID : 03024-022P
INFO : Number of attributes going to  update for item ID/Count: 03024-022P/3
USEA1LPG2STQG3.00937.01.infodba.00011: Query-2007-06-SavedQuery.executeSavedQueries
USEA1LPG2STQG3.00937.01.infodba.00011.01.infodba.00012: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.00937.01.infodba.00013: Core-2007-09-DataManagement.loadObjects
USEA1LPG2STQG3.00937.01.infodba.00013.01.infodba.00014: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.00937.01.infodba.00013.01.infodba.00015: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.00937.01.infodba.00016: Core-2007-01-DataManagement.refreshObjects
USEA1LPG2STQG3.00937.01.infodba.00016.01.infodba.00017: Core-2011-06-Session.getTypeDescriptions

Modified Objects handled in com.teamcenter.clientx.AppXUpdateObjectListener.modelObjectChange
The following objects have been updated in the client data model:
    HRW9dpKNY4rP4B ItemRevision
    HRQ9dpKNY4rP4B Item
03024-022P,object_name,Ferrite Bead,03024-022P,30,4A,25%,SMD,1206,Ferrite Bead,03024-022P,30,4A,25%,SMD,1206,Same Va
03024-022P,object_desc,99 - DESIGN AUTHORITY (PURCH PARTS) I.E. NAS, MS ETC. 2023-07-19 CIS Export,9-August-2023_CIS
IGN AUTHORITY (PURCH PARTS) I.E. NAS, MS ETC.,9-August-2023_CIS_Export : 99 - DESIGN AUTHORITY (PURCH PARTS) I.E. NA
t-2023_CIS_Export : 99 - DESIGN AUTHORITY (PURCH PARTS) I.E. NAS, MS ETC.,Same Value
Inside false flag

USEA1LPG2STQG3.00937.01.infodba.00018: Classification-2007-01-Classification.findClassificationObjects
USEA1LPG2STQG3.00937.01.infodba.00018.01.infodba.00019: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.00937.01.infodba.00020: Classification-2007-01-Classification.getClassificationObjects
WARNING : This Item [ 03024-022P ] already contains classification associated.
USEA1LPG2STQG3.00937.01.infodba.00021: Classification-2007-01-Classification.findClassificationObjects
USEA1LPG2STQG3.00937.01.infodba.00022: Classification-2007-01-Classification.getClassificationObjects
END  --->Processing [1/1], Item id [03024-022P]
```

- After successful completion of batch run, the following output folder should be available inside the CSV Input path directory.
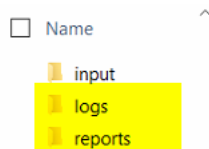
Note: If any of the steps above failed, connect with Teamcenter Admins to resolve the issue, and proceed further on tool setup.

1.6.   User Guide - Purpose

This document describes the entire process to update the CIS property into Teamcenter. The main purpose of the utility is to update the CIS Library information to Teamcenter.

- Input from CIS Library extracted in CSV format.

- Import the given CIS Input information in Teamcenter to respective Item Revision.

1.7.   Scope

Description
Create Input File as per the given guideline
Import CIS property information to Teamcenter

Apart from the above activities, any other activity is out of scope for this work.

1.8.   Pre-Requisites

- CIS_Update utility should be configured as per mentioned in the **section 1.2 to 1.3.**

- The CIS_Update utility should be passed the Dry Run as per mentioned in the **section 1.4.**

  Note: If the utility is not configured as per mentioned guideline from section 1.1 – 1.4 tool will not give the desired result. On configuration, if any issue occurs connect with Teamcenter administrator to resolve it.

1.9.   Input File Creation Guideline

Input for this utility will be come from CIS Library tool in CSV format. In general, the Name & Description property from CIS extracted and given as input to update in Teamcenter.

Input File Header

- The Input File Header should be in the following format. The first column should be Item ID, followed by the property to update on revision. It should be **String.<property_real_name>**

```
Item ID,String.object_name,String.object_desc,String.object_classif
```
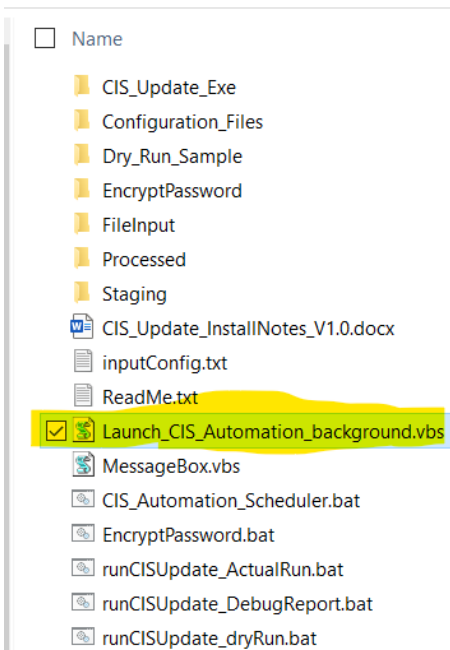
Input File Name

- The Input File should be a .csv file.Input File Placement

- Create a folder **"input"** inside the "**CISHomePath**" folder.

- The input file needs to be placed under the "**input**" directory.

1.10.   Launch CIS Automation in Background:

- This will launch the CIS Update Utility Automation in Background.

- Please make sure you can perform **Section 1.5 (Installation – Actual Run). This section will use run-CISUpdate_ActualRun.bat file.**

- In below image task manager, you can see that CIS Automation schedular is Launched in background.
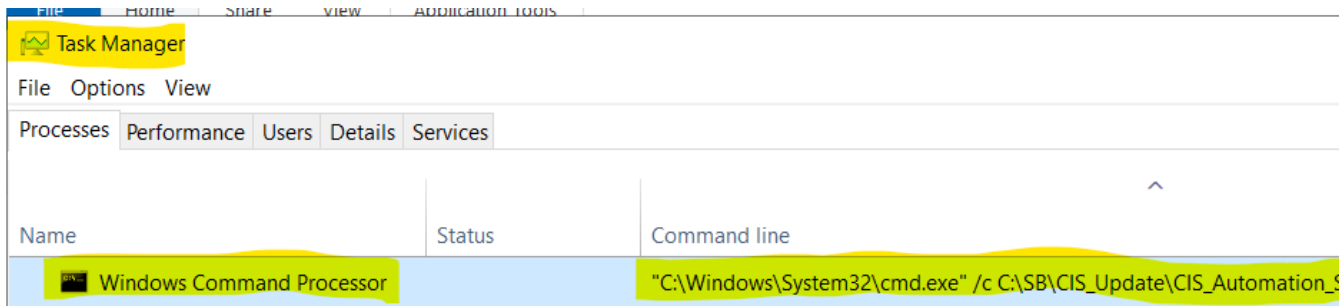
- This Utility Requires Staging directory, CISHomePath directory and Processed directory locations to be mapped in "**CIS_Automation_Scheduler.bat".**

- If Staging directory, CISHomePath directory and Processed directory locations are not valid, system will show Error message and stops execution. Below image is sample error message if Processed directory is not valid.
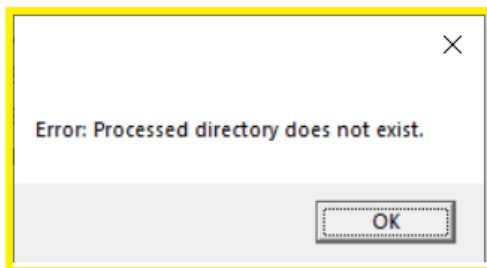
- Directory and Usage:

  - **"staging_dir"**-> where users will be pasting the input files. (Accessible location to users and system).

  - **"CISHomePath"** -> Please provide the same location which you have provided in **inputConfig.txt** file. The system will move files from staging to the input directory for processing.

  - **"processed_dir"** -> once the input files are processed by the CIS Update utility, these files will be moved to the Processed directory.

- Execution Logic:

  - In the Task schedular, a new schedular will be created it will be scheduled to start Launch_CIS_Automation_background.vbs script.

- Staging directory, CISHomePath directory and Processed directory locations will be mapped as explained above

- Once users Paste Input files in the staging directory, they will be moved to the Input directory and CIS Update execution will be started.

- Once all the Input files are processed they will be moved to the Processed folder.(also input files name will be appended with the timestamp).

- CIS Automation schedular will check the Staging directory for any new files with every 5 seconds time interval.

- For more details on how Item properties are updated, please refer to Property Update Logic.

1.11. Execute CIS_Update utility

- CIS_Update utility is a command-line utility, where the necessary batch file provided with the required settings to execute the utility.

- As per this document guideline, configure the system and the CIS_Update utility configuration.

- Create a Folder and set the folder path in "**CISHomePath**" of "**inputConfig.txt**" file. The utility logs, input, reports will be stored under this folder only.

- Also, prepare the CIS Library input file as per the given guidance.

- Utility is capable of handling more than one input file. Under **"input"** folder can have more than one input csv files.

- There are Five batch files provided to execute this utility in dry run, actual run, debug report, Password Encryption and Launch CIS Automation in Background.

Name	Date modified	Type
CIS_Update_Exe	8/16/2023 10:13 AM	File folder
Configuration_Files	8/16/2023 10:41 AM	File folder
Dry_Run_Sample	8/16/2023 10:38 AM	File folder
EncryptPassword	8/16/2023 10:13 AM	File folder
FileInput	8/16/2023 10:22 AM	File folder
Processed	8/16/2023 10:13 AM	File folder
Staging	8/16/2023 10:14 AM	File folder
CIS_Automation_Scheduler.bat	8/16/2023 10:30 AM	Windows Batch File
EncryptPassword.bat	8/7/2023 11:24 AM	Windows Batch File
runCISUpdate_ActualRun.bat	8/16/2023 10:28 AM	Windows Batch File
runCISUpdate_DebugReport.bat	8/16/2023 10:28 AM	Windows Batch File
runCISUpdate_dryRun.bat	8/16/2023 10:54 AM	Windows Batch File

- **"runCISUpdate_dryRun.bat"** – to run the utility in dry run mode. Dry run mode does not make any changes in Teamcenter, only generates the status logs and reports on given input file.

- **"runCISUpdate_ActualRun.bat"** – to run the utility in actual mode. Actual mode makes the changes in Teamcenter and generate the status logs and reports on given input file.

- **"runCISUpdate_DebugReport.bat"** – to run the utility to generate Debug Report. This report will be generated in the reports folder which will have input sheet Part details from Teamcenter.

- **"EncryptPassword.bat"** – to encrypt Teamcenter Password. user need to enter the Teamcenter password, Utility will give the encrypted password. Later user needs to give this Encrypted password in runCISUpdate_ActualRun.bat, runCISUpdate_dryRun.bat, runCISUpdate_DebugReport.bat

- **"CIS_Automation_Scheduler.bat"** – to run the utility in Automatic scheduler mode.

-

Property Update Logic:

CIS_Utility updates the given input property value to the Teamcenter Revision as per the following logic.

- Checks for the Item existence in Teamcenter for given Item ID.

- If Item exists, gets latest revision of Item,

  - If Latest Revision Released, skip the update

  - If Latest Revision not Released, checks for its value with Teamcenter property value

    - If Values are same, skip update

    - If Values differs, updates the given value in Teamcenter.

- If Item does not exist, it will create a New Item and update the property value.

Dry Run:

- **Dry Run does not make any data changes in Teamcenter.**

- Dry Run it is like execute, only difference is Teamcenter update will not happen.

- Dry Run generates the logs as per the Property update logic.

- It gives the summary of report on property update and revision existence in Teamcenter.

Actual Run:

- **Execute make the data changes in Teamcenter.**

- Execute updates the given input file property in Teamcenter as per the Property update logic.

- It gives the summary of report on property update and revision existence in Teamcenter.

Utility Logs & Reports:

- If any error on configuration or Teamcenter login, the error will be displayed in the command prompt as highlighted below,

```
configVarName CISHomePath
configVarName InputCSVPath
input CSV file is <UPDATE_EXECUTION_DIR_FULL_PATH>\\input
configVarName ReportsPath
configVarName LogsPath
configVarName TC_4Tier_URL
configVarName TC_SSO_URL
configVarName TC_SSO_APPID
inputFile is outside <UPDATE_EXECUTION_DIR_FULL_PATH>\\input
ERROR : Invalid Reports Path Illegal characters in path.
"********************************************************************************************"
"********************** Utility Exceaution Completed... *************************************"
"************* Kindly Check for the Logs & Report Folder for more details.... ***************"
"********************************************************************************************"
Press any key to continue . . .
```

- On Successful completion of utility, the command prompt displays completion of utility. As per the below snapshot the highlighted lines ensure the successful completion of utility.

```
configVarName TC_SSO_APPID
inputFile is outside C:\SB\CIS_Update\Tool\CIS_Update\Dry_Run_Sample\\input
Connecting To : https://USTC13QW01.MOOG.COM:8443/tc
Input Files Folder Path : C:\SB\CIS_Update\Tool\CIS_Update\Dry_Run_Sample\\input
Report Folder Path : C:\SB\CIS_Update\Tool\CIS_Update\Dry_Run_Sample\\reports
Log Folder Path : C:\SB\CIS_Update\Tool\CIS_Update\Dry_Run_Sample\\logs
USEA1LPG2STQG3.03154.01.Anonymous.00001: Core-2008-06-Session.loginSSO
USEA1LPG2STQG3.03154.01.Anonymous.00001.01.Anonymous.00002: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.03154.01.Anonymous.00001.01.Anonymous.00003: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.03154.01.Anonymous.00001.01.Anonymous.00004: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.03154.01.Anonymous.00001.01.Anonymous.00005: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.03154.01.Anonymous.00001.01.Anonymous.00006: Core-2007-01-Session.getTCSessionInfo
Login Success.User : Beemidi, Sanjeev
USEA1LPG2STQG3.03154.01.sbeemidi.00007: Query-2006-03-SavedQuery.getSavedQueries
USEA1LPG2STQG3.03154.01.sbeemidi.00007.01.sbeemidi.00008: Core-2011-06-Session.getTypeDescriptions
USEA1LPG2STQG3.03154.01.sbeemidi.00009: Core-2008-06-Session.setObjectPropertyPolicy
INFO : Set object policy completed
INFO : Properties going to  update for item ID : PLM-TC0077789
INFO : Number of attributes going to  update for item ID/Count: PLM-TC0077789/2
USEA1LPG2STQG3.03154.01.sbeemidi.00010: Query-2007-06-SavedQuery.executeSavedQueries
WARNING : Item not found in Teamcenter.Item going to create PLM-TC0077789
INFO : Item will be created PLM-TC0077789
INFO : Properties going to  update for item ID : PLM-TC0077779
INFO : Number of attributes going to  update for item ID/Count: PLM-TC0077779/2
USEA1LPG2STQG3.03154.01.sbeemidi.00011: Query-2007-06-SavedQuery.executeSavedQueries
WARNING : Item not found in Teamcenter.Item going to create PLM-TC0077779
INFO : Item will be created PLM-TC0077779
USEA1LPG2STQG3.03154.01.sbeemidi.00012: Core-2006-03-Session.logout
"********************************************************************************************"
"********************** Utility Exceaution Completed... *************************************"
"************* Kindly Check for the Logs & Report Folder for more details.... ***************"
"********************************************************************************************"
Press any key to continue . . .
```

- The console displays, the path for Log File, Report File, Logged in User for Teamcenter and the Logout of Teamcenter session.

- Utility reports & logs created in respective folder under **CISHomePath** directory. Inside, reports and logs folder for each input file under input folder, will generate corresponding its report and logs file.

☐ Name
📁 input
📁 logs
📁 reports

Reports File:

- **The report file useful to verify quickly on the status of property update in Teamcenter.**

- Report files gives the summary of property update for the given files. The report file available gives the summary of property update and its values update in detail.

SB > CIS_Update > Dry_Run_Sample > reports

- Below is the sample report summary, where gives the TC server environment the utility runs against, TC user used for run, utility mode (dry-run/update), No. of inputs given and its update status in Teamcenter.

```
Processing Input File : C:\SB\CIS_Update\FileInput\input\ExportCIS_LotSize_10_16h15_9-August-2023F3
=====================================================================================================
Part Library automatic update of Items\Latest Rev Attributes in Teamcenter
=====================================================================================================
End Time                                          : 08-16-2023 10:31:47
Start Time                                        : 08-16-2023_10-31-10
TC URL                                            : https://USEA1SVTCECAD01.moog.com:8443/tc
Executing User                                    : infodba
Is DryRun                                         : False
Number of Objects to be processed is              : 10

****************************NEW OBJECTS*************************************************************
Total Number of Items Created                     : 0

***************************MODIFIED OBJECTS********************************************************
Total Number of Items Modified                    : 0
***************************SKIPPED OBJECTS*********************************************************
Total Number of Items Skipped Due to Released                   : 4
Total Number of Items Skipped Due to All Property has Same Value : 6
Total Number of Items Skipped Due to Error in Property Update    : 0
```
ss

- The second part of the report will have the details of Teamcenter object status, value comparison against given input and its process state.

```
###### Updates Per Record #################
ItemID,Property Real Name,Property Existing Value in Tc,Property New Value, Result
PLM-TC0077789,,,,Success.New Item
PLM-TC0077779,,,,Success.New Item
```
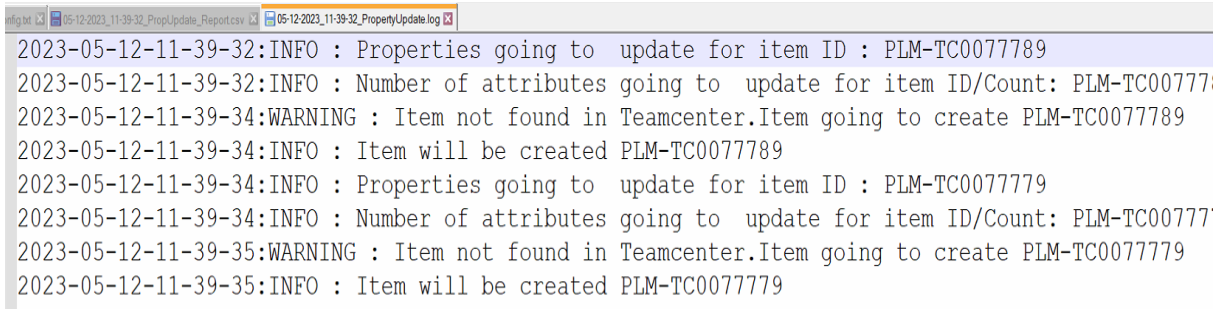
- Below are the possible available Result value and its meaning,

  o **Success.New Item** – New Item Created for given input

  o **Success** – The Property Value updated on the revision for given input

  o **Not Changed** – The Property values same on the revision for given input. Not Modified in Teamcenter.

  o **RELEASED.SKIP** – The Latest Revision is Released. Not Modified in Teamcenter.

  o **Failed** – Failed to Create New Item / Update the property in Teamcenter.

Logs File:

- The Log files gives the detail processing log for input file line by line.

- This log contains detail of update property information as per below snapshot. If any technical error during the process, the detailed error information will be available in this log.


```
2023-05-12-11-39-32:INFO : Properties going to update for item ID : PLM-TC0077789
2023-05-12-11-39-32:INFO : Number of attributes going to update for item ID/Count: PLM-TC00777
2023-05-12-11-39-34:WARNING : Item not found in Teamcenter.Item going to create PLM-TC0077789
2023-05-12-11-39-34:INFO : Item will be created PLM-TC0077789
2023-05-12-11-39-34:INFO : Properties going to update for item ID : PLM-TC0077779
2023-05-12-11-39-34:INFO : Number of attributes going to update for item ID/Count: PLM-TC00777
2023-05-12-11-39-35:WARNING : Item not found in Teamcenter.Item going to create PLM-TC0077779
2023-05-12-11-39-35:INFO : Item will be created PLM-TC0077779
```

- This logs mostly can be used for issue analysis purpose.

Assumptions:

- Input file and tool configuration as per the given guideline. Otherwise, utility may fail.

- JDK / JRE must be available in system for tool execution.

- Teamcenter Security Agent must be available in system for Teamcenter login.

- Needed input must be provided in the config file (TC-server URL, SSO URL, Tc-APPID)

- When Teamcenter has connection issues, this related error details available in that Logfile.

- We must proceed Dry run for validation before actual execution.

- In another case If Input file got some error issue, can move with Input validation.

- If parts are missing Teamcenter, its needed to add those missing parts manually.

- During the testing, all given scenarios are must referable.

- Item ID play's important role in input.

- Only the latest revisions of available item revisions will be considered.

Testing Scenarios:

Scenario	Description	Result
1	Item ID Not Exist in Teamcenter	Creates new Item and updates property
2	Item ID Exist, Latest Revision Released	Skip the update
3	Item ID Exist, Latest Revision WIP, Values same	Skip the update
4	Item ID Exist, Latest Revision WIP, Values differs	Update the Value

Testing Assumption:

- The below are the brief of various testing scenario of CIS Property update.

Scenario-1:

- This scenario represents, the given Item ID not found in Teamcenter.

- On this, new Item will be created in Teamcenter for the given ID and updates the property value on the newly created revision.

Scenario-2:

- This scenario represents, the given Item ID found in Teamcenter. But the Latest Revision is in Released State.

- On this, the property update will be skipped.

Scenario-3:

- This scenario represents, the given Item ID found in Teamcenter. The Latest Revision is in WIP state. But the input file values and Teamcenter property values are same.

- On this, the property update will be skipped.

Scenario-4:

- This scenario represents, the given Item ID found in Teamcenter. The Latest Revision is in WIP state. But the input file values and Teamcenter property values are different.

- On this, the given property will be update in Teamcenter.