AMBIKEYA
IT SOLUTIONS

SAP S/4HANA 1610 to 1809 Upgrade

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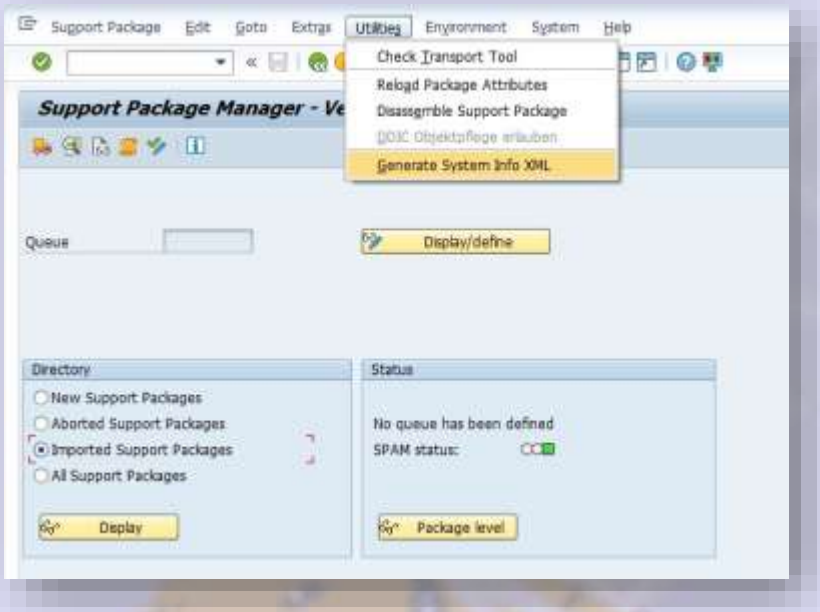
S/4 HANA UPGRADE (1610 to 1809)

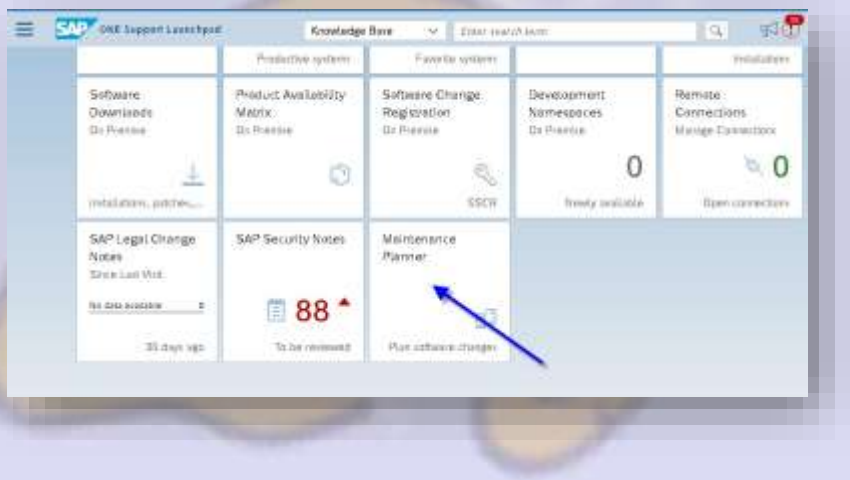
A. Generate XML stack file for Maintenance planner

Execute codes SPAM to generate XML system info , click Utilities ➔ Generate system info for XML

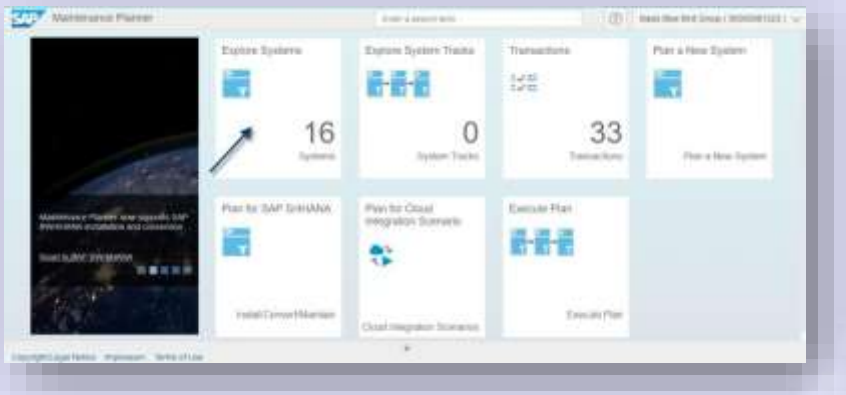


Save XML system info to local PC

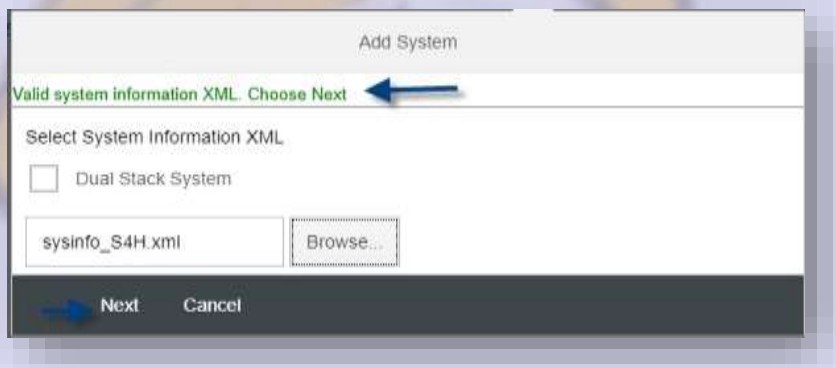
Access maintenance planner on SAP Portal

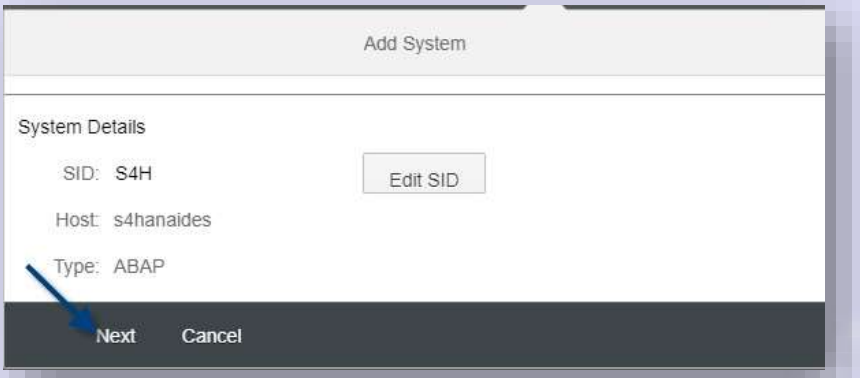


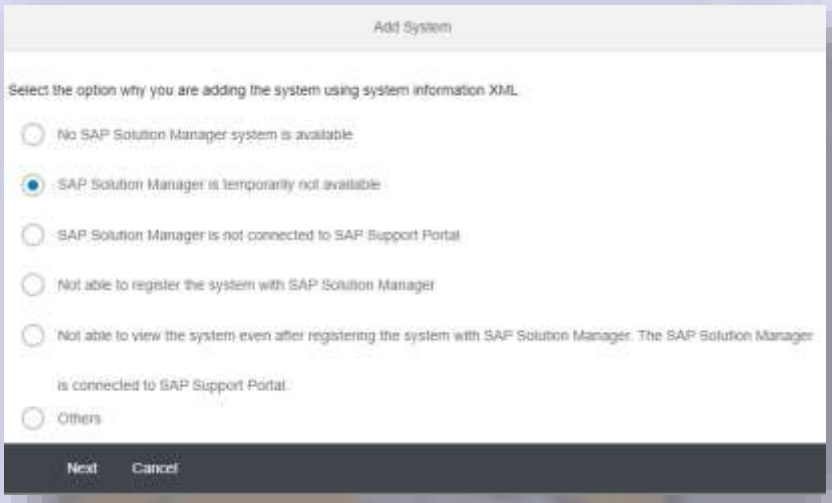
Click explore system and add system



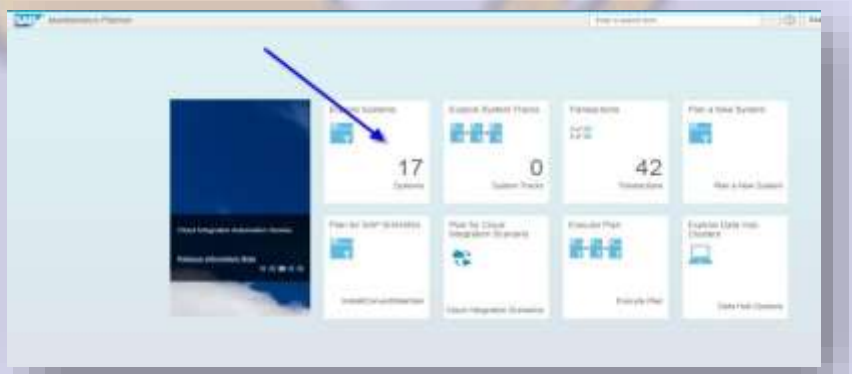
Browse generated system XML , and follow steps in next screenshot



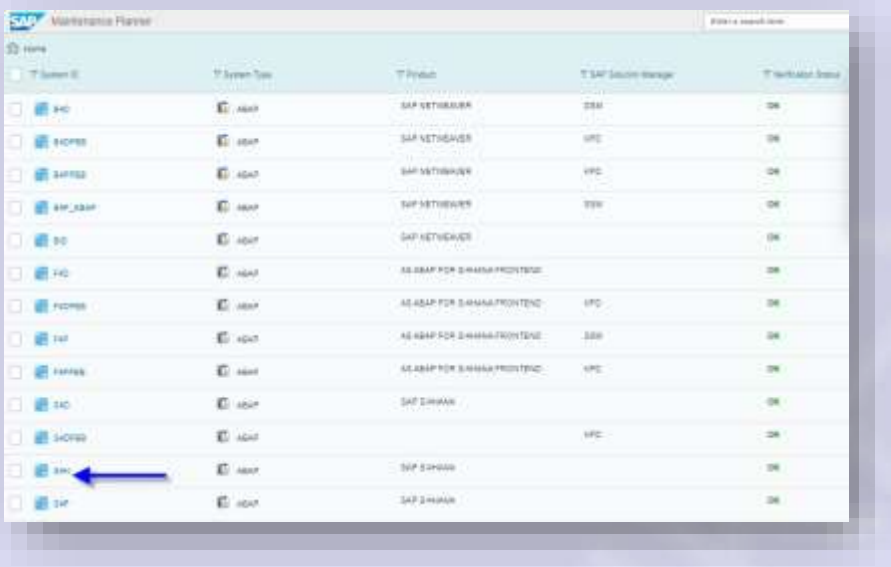




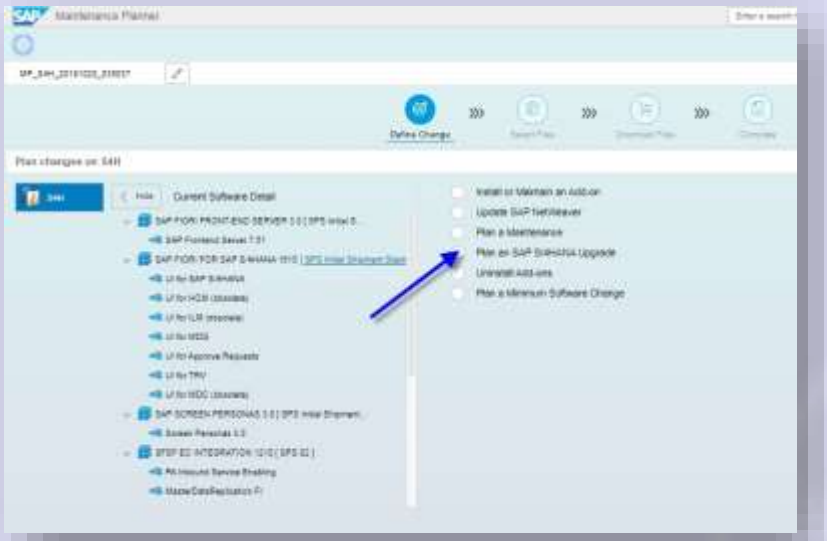
Return to explore system

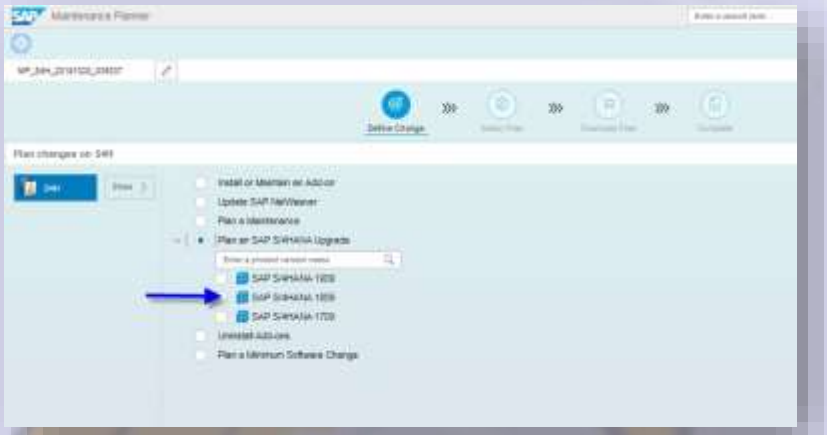


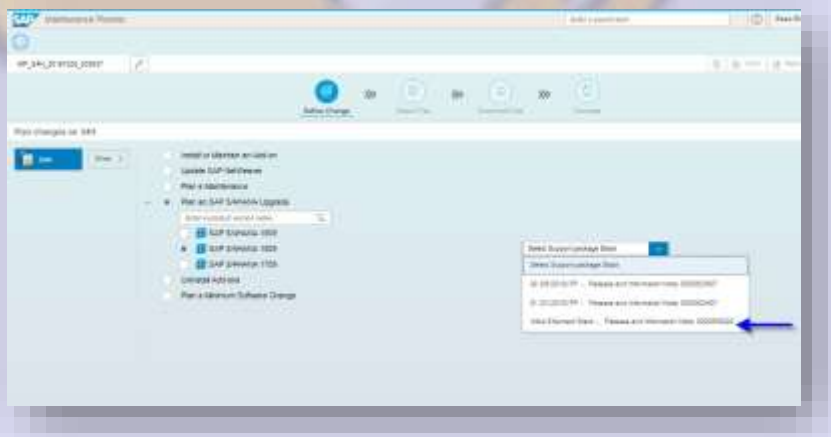
Click system which want to be upgraded, and choose plan



Follow steps in next screenshots, our target version is S/4 HANA 1809 initial shipmen stack

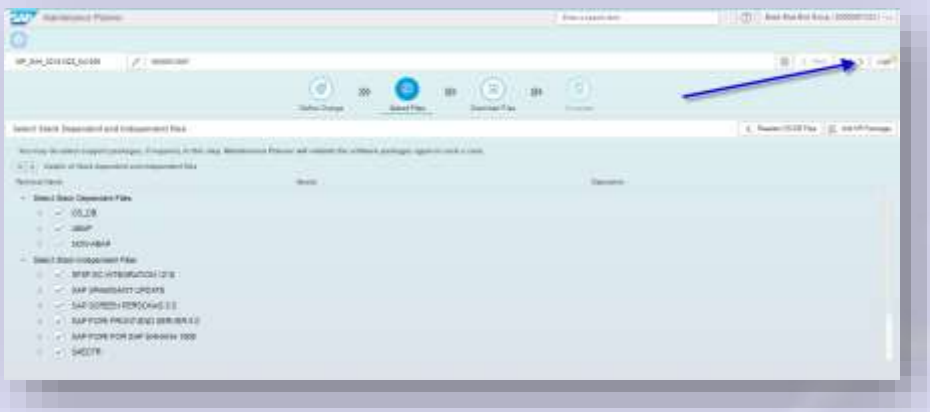

Maintenance Planner
Define Change
Plan changes on: S4H
Current Software Detail
Install or Maintain an Add-on
Update SAP NetWeaver
Plan a Maintenance
Plan an SAP S/4HANA Upgrade
Uninstall Add-ons
Plan a Minimum Software Change


Maintenance Planner
Define Change
Plan changes on: S4H
Install or Maintain an Add-on
Update SAP NetWeaver
Plan a Maintenance
Plan an SAP S/4HANA Upgrade
SAP S/4HANA 1809
SAP S/4HANA 1909
SAP S/4HANA 1709
Uninstall Add-ons
Plan a Minimum Software Change

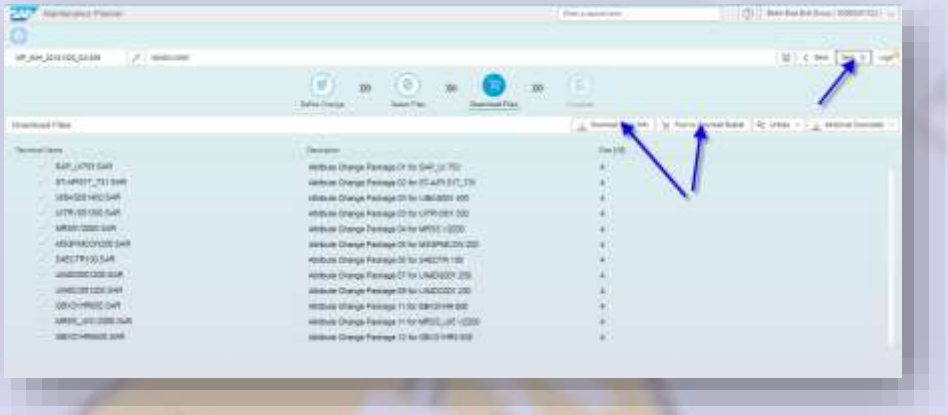

Define Change
Plan changes on: S4H

Click confirm selection, and next

Select Linux on x86_64 64 bit for OS/DB dependent files, and click confirm



Download XML stack file to local PC and push archive file to download basket



B. Enabling and Implement Transport Correction Instruction (TCI)

Update SPAM at least lev 70

Implement following note for SAP Basis 751, using snotes

SAP_BASIS 751	• Downloaded and implement following SAP Notes if they are valid:
	  ○ SAP Note 2536585
	  ○ SAP Note 2606986
	  ○ SAP Note 2615270
	  ○ SAP Note 2569813

Implement boostrap note 1995550 :

1. Search and open the SAP Note 1995550 that contains the Note Assistant enablement from SAP Support Portal Home.

2. Choose *Correction Instructions tab* and select *SAP_BASIS* under the *Software Component* tab.
3. On the *Correction Instruction* view, select the relevant software component version (i.e SAP_BASIS 751) and choose *Download*.

The system provides a SAR file. Save the downloaded SAR file into your directory.

4. Log into client 000 of the system you want to install the TCI.
5. Upload the bootstrap TCI SAP Note to the system: Call transaction SPAM, then choose *Support Package Load Packages From Front End* and navigate to the directory, into which you downloaded the SAR file (for example, K70003CPSAPBASIS.SAR).
6. Define Queue:
    - 6.1. In transaction SPAM, display the new support packages.
    - 6.2. From the *OCS Package Directory: New Packages* view, select the respective bootstrap TCI SAP Note.
    - 6.3. To define the TCI queue, choose the *Calculate Queue* button.

Note

If you receive the following message "*Not allowed Support Package is already applied*," the import of TCI is not required as the required changes are already available in the system.

7. Import the TCI queue: Choose the *Import queue* button to import the TCI queue.

7. Confirming the queue:

Once the queue is imported, you are prompted with the next action - to go to the SAP Note Assistant (transaction *snote*) and download(Even if the Note is available download it again) and implement the bootstrap note (SAP Note 1995550). Ensure that the status of the SAP Note is completely implemented.

Doing this will automatically confirm the SPAM queue.

Implement note 2408383 with TCI:

1. Search and open the SAP Note 2408383 that contains the TCI rollback enablement from SAP Support Portal Home.

2. Choose *Correction Instructions tab* and select *SAP_BASIS* under the *Software Component* tab.
3. On the *Correction Instruction* view, select the relevant software component version (i.e SAP_BASIS 751) and choose *Download*.

The system provides a SAR file. Save the downloaded SAR file into your directory.

4. Log into client 000 of the system you want to install the TCI.
5. Upload the bootstrap TCI SAP Note to the system: Call transaction SPAM, then choose *Support Package Load Packages From Front End* and navigate to the directory, into which you downloaded the SAR file (for example, K70003CPSAPBASIS.SAR).
6. Define Queue:
    - 6.1. In transaction SPAM, display the new support packages.
    - 6.2. From the *OCS Package Directory: New Packages* view, select the respective bootstrap TCI SAP Note.
    - 6.3. To define the TCI queue, choose the *Calculate Queue* button.

Note
If you receive the following message "*Not allowed Support Package is already applied*," the import of TCI is not required as the required changes are already available in the system.

7. Import the TCI queue: Choose the *Import queue* button to import the TCI queue.

7. Confirming the queue:

Once the queue is imported, you are prompted with the next action - to go to the SAP Note Assistant (transaction *snote*) and download(Even if the Note is available download it again) and implement the bootstrap note (SAP Note 2408383). Ensure that the status of the SAP Note is completely implemented. Doing this will automatically confirm the SPAM queue.

Implement note 2502552 with TCI and prerequisite note , its procedure same as above

Implement note 2617167 with TCI, its procedure same as above

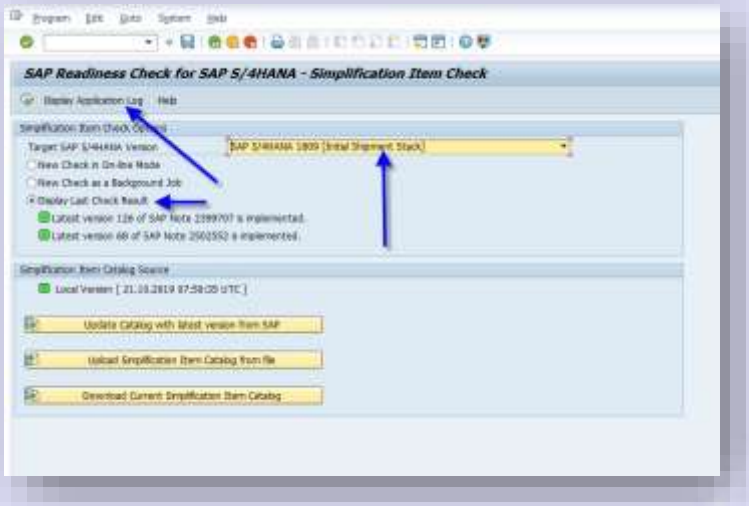
Implement note 2399707

Execute SI Check :

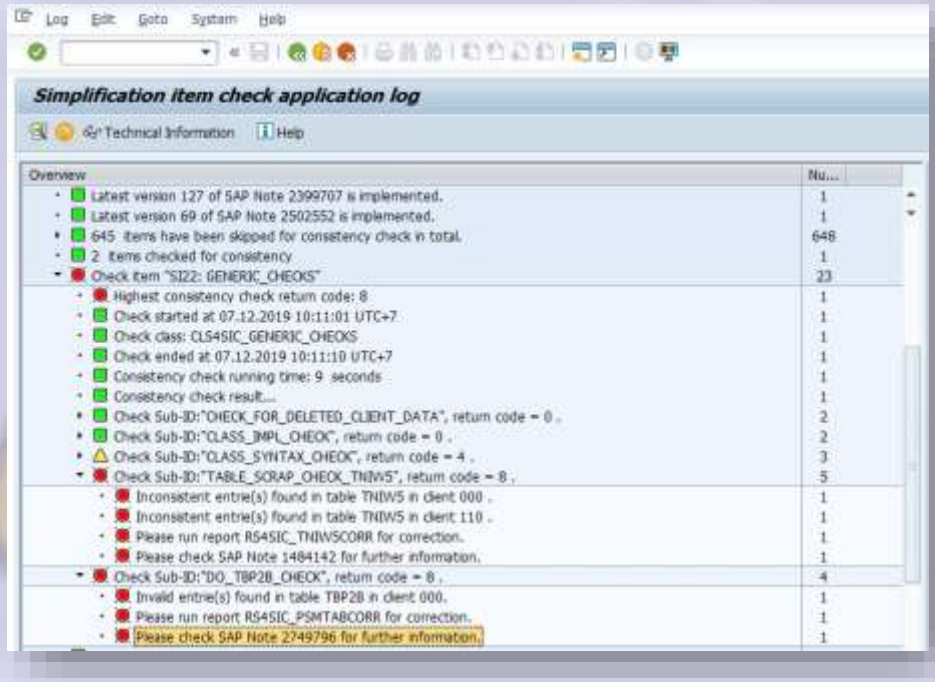
Afterwards you can execute the report "/SDF/RC_START_CHECK" to get the check results of the S/4HANA conversion checks for S/4HANA 1709 and above. The report is delivered with note 2399707.	
Select Target SAP S/4HANA Version = "SAP S/4HANA 1809 [Initial Shipment Stack]" Select new Check as a background Job.	

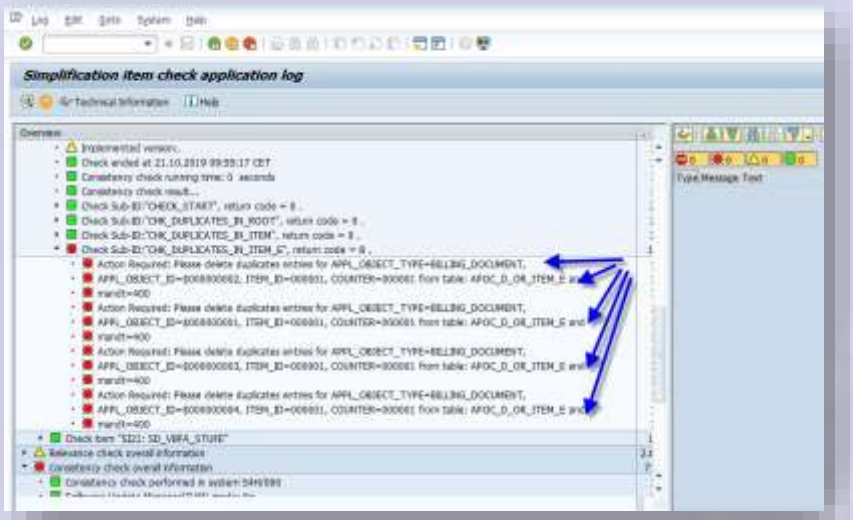
New Job "RC_NEW_CHECK_IN_JOB" will be scheduled in the background.	
Once job has been successfully completed, click on Display last Check Result.	

Display SI check result :



Review and analyze result





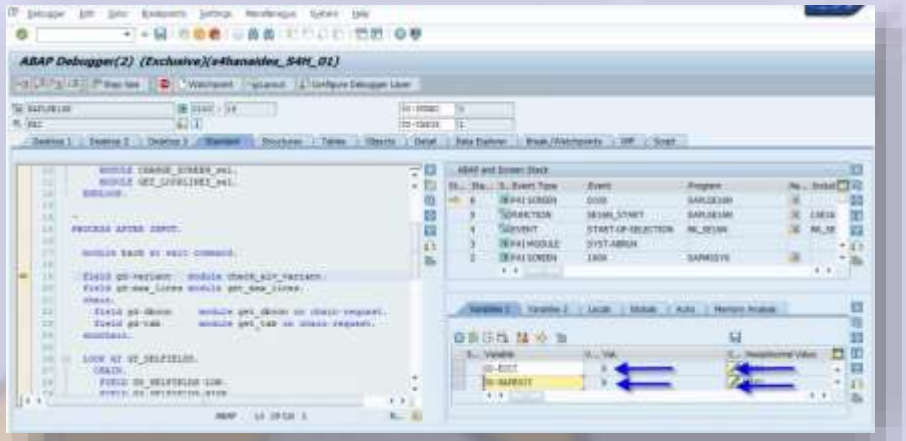
As shown above some duplicate entries need to be deleted

Deletion procedure :

1. Execute SE16N then fill filtered value as reported by SI check above, then execute debug mode by call /H then enter

2. Press F8 and it bring to debug window , then enter GD-EDIT and GD-SAPEDIT in variable column and press enter

3. Click change pencils and insert “X” into Val. Column, then press enter



4. Press F8 , then delete duplicate key value as described in SI Check result

C. Upgrade Execution with SUM

Copy all downloaded files to a directory and change their ownership to s4hadm:sapsys and its permission to 777.

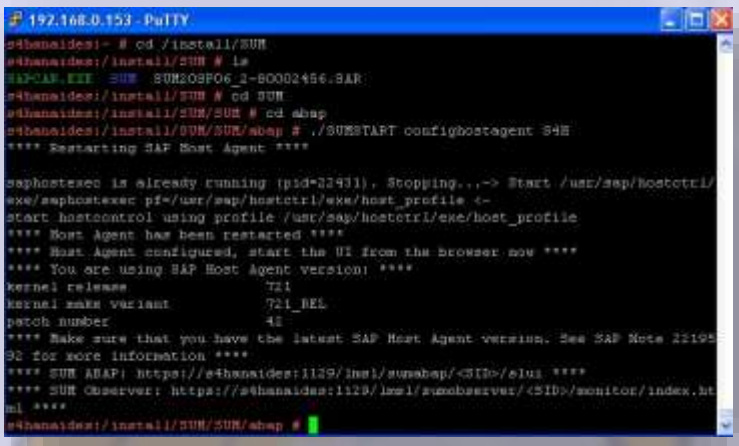
Ensure that all instances are in green status as below ,

```
s4hanaides:s4hadm 56> sapcontrol -nr 02 -function GetSystemInstanceList

13.12.2019 15:22:54
GetSystemInstanceList
OK
hostname, instanceNr, httpPort, httpsPort, startPriority, features, dispstatus
s4hanaides, 2, 50213, 50214, 3, ABAP|GATEWAY|ICMAN|IGS, GREEN
s4hanaides, 3, 50313, 50314, 1, MESSAGESERVER|ENQUE, GREEN
s4hanaides:s4hadm 57>
```

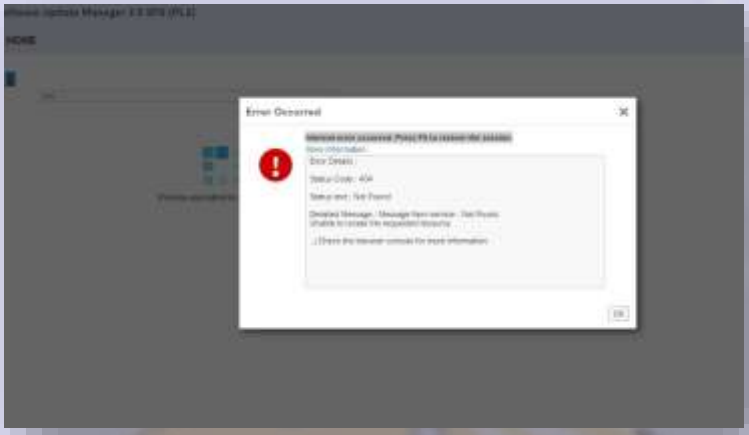
Allocate sufficient batchjob number to instance profile , do not allocate too small , because SUM will raise error and stop.

Extract SAR file of SUM packages to directory i.e /install/SUM and cd to directory /install/SUM/SUM/abap, then execute following command as root :



S4H ➔ SID of S/4HANA system

Access link http://s4hanaides:1128/lmsl/sumabap/S4H/sluigui/ using browser and enter <sid>adm credential,

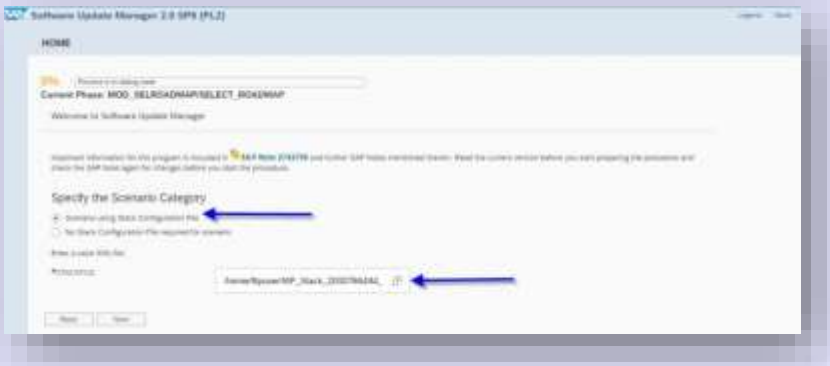


Error raise as above check file /usr/sap/hostctrl/work/sapstartsrv.log, and perform following steps :

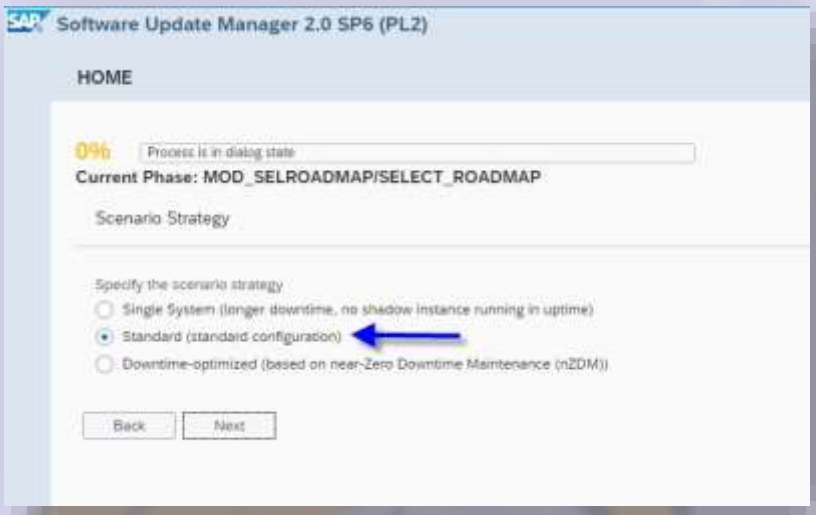
```
s4hanaides:/usr/sap/hostctrl/work # rm /tmp/.saphostagent__lmsl_sumabap_S4H
```

Reexecute SUM

Put xml stack file in next dialog :

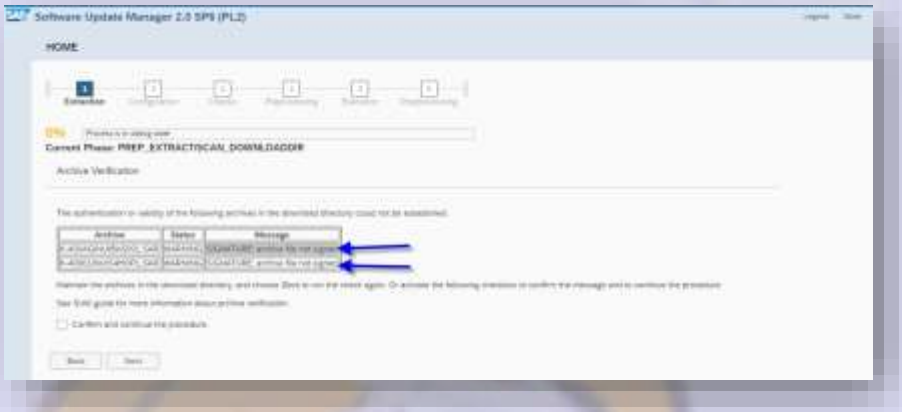


Choose suitable strategy for scenario , we choose Single System with shadow instance



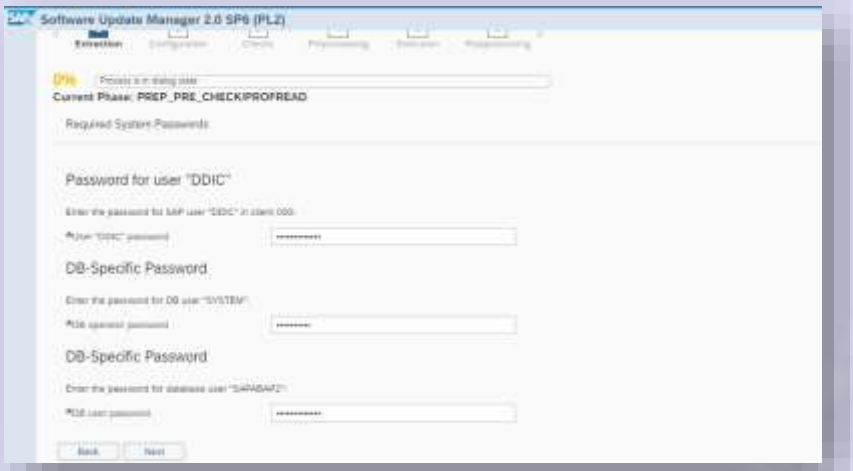
Select check archive authenticity

Put download directory which consist archive files

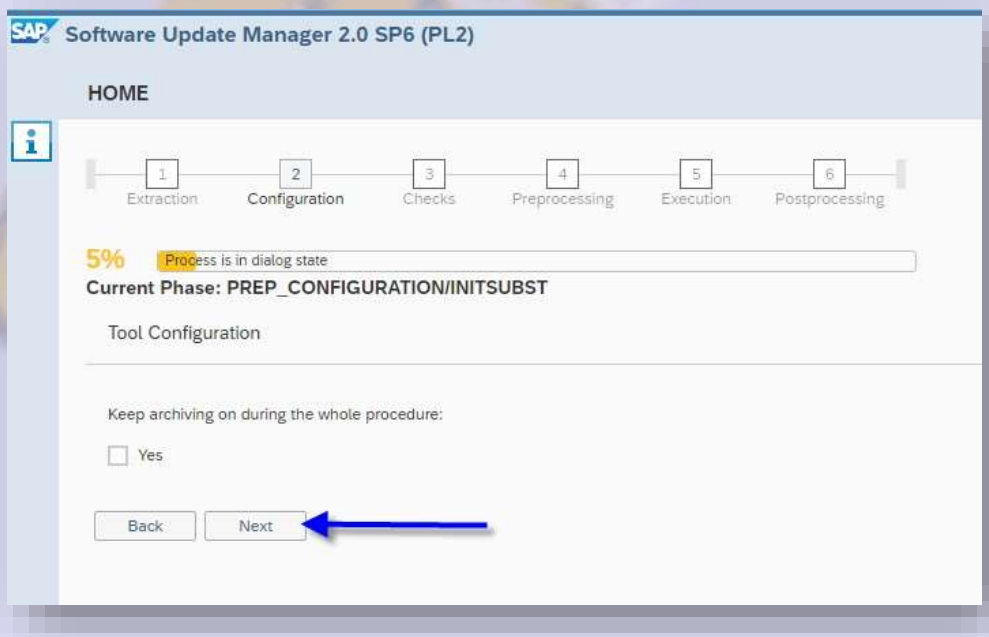


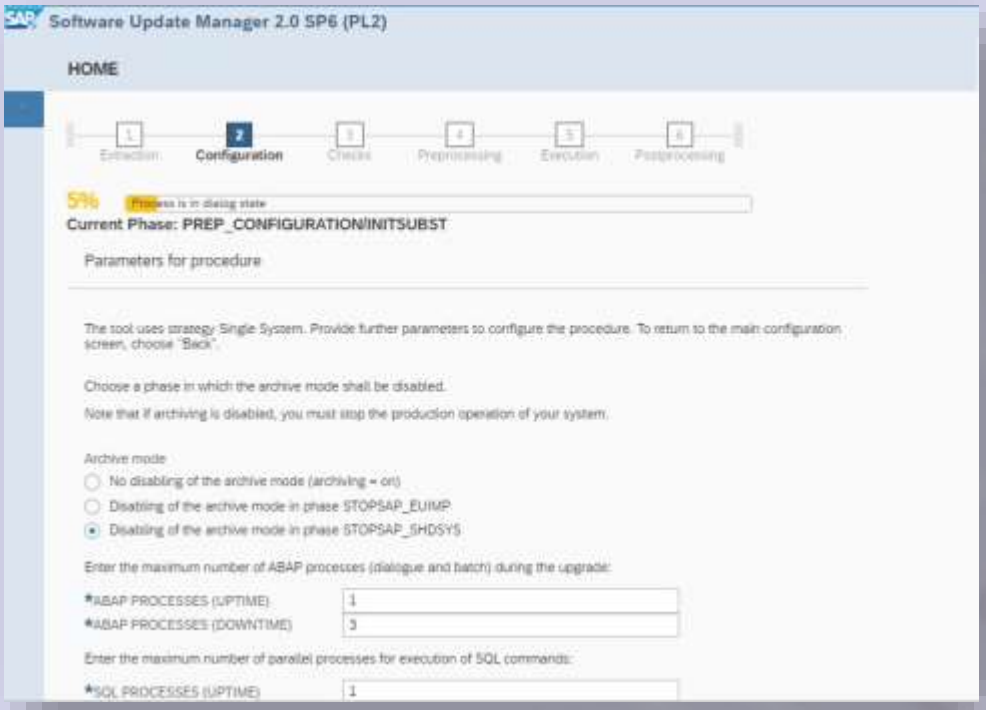
Error raised as above, both archive files are corrupted , need to download them again and upload into download directory .

Enter DDIC and SYSTEM (HANA) credential

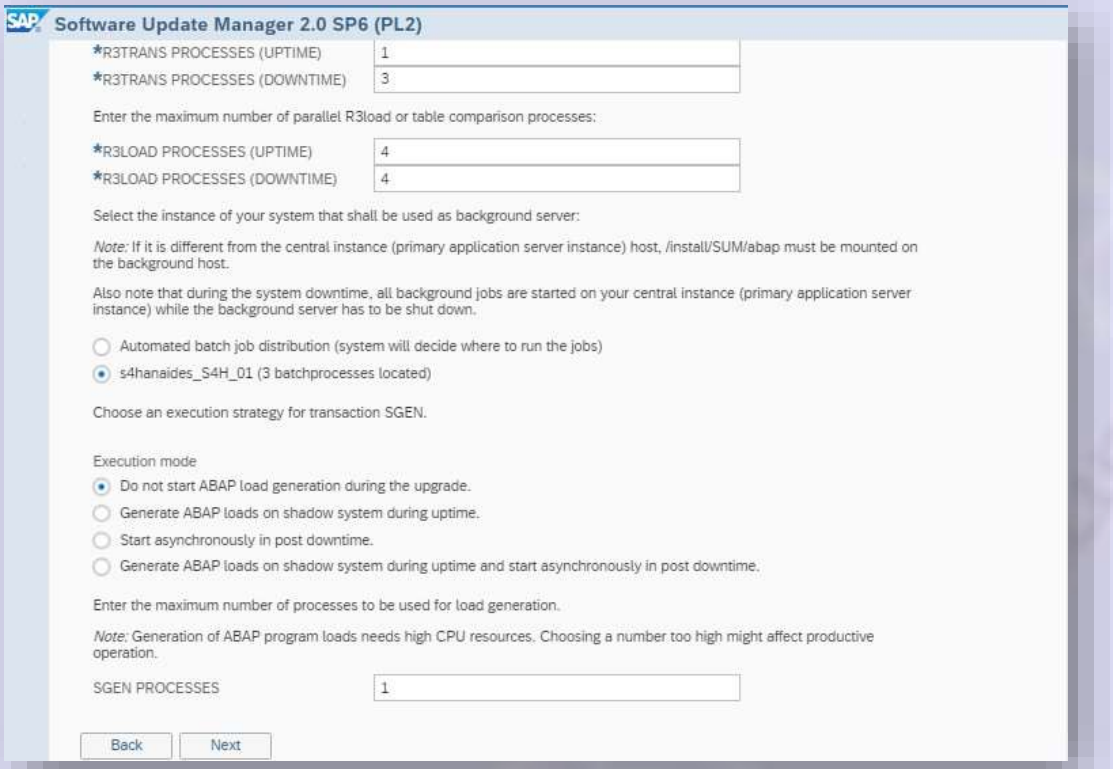


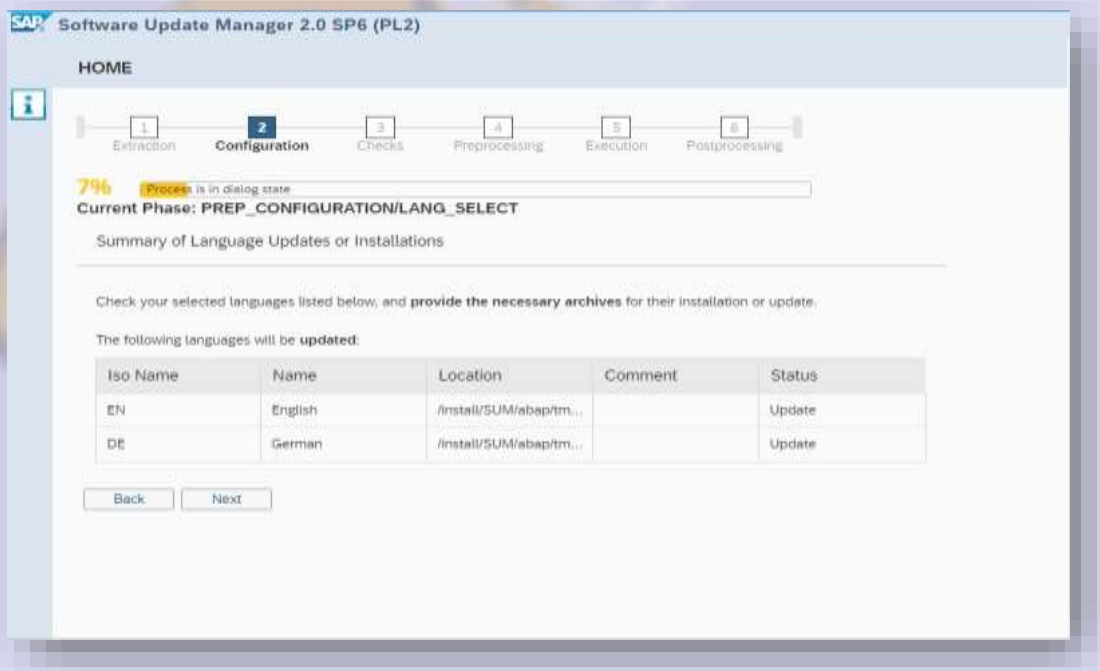
Archive is disabled , as its consequence production must be stopped



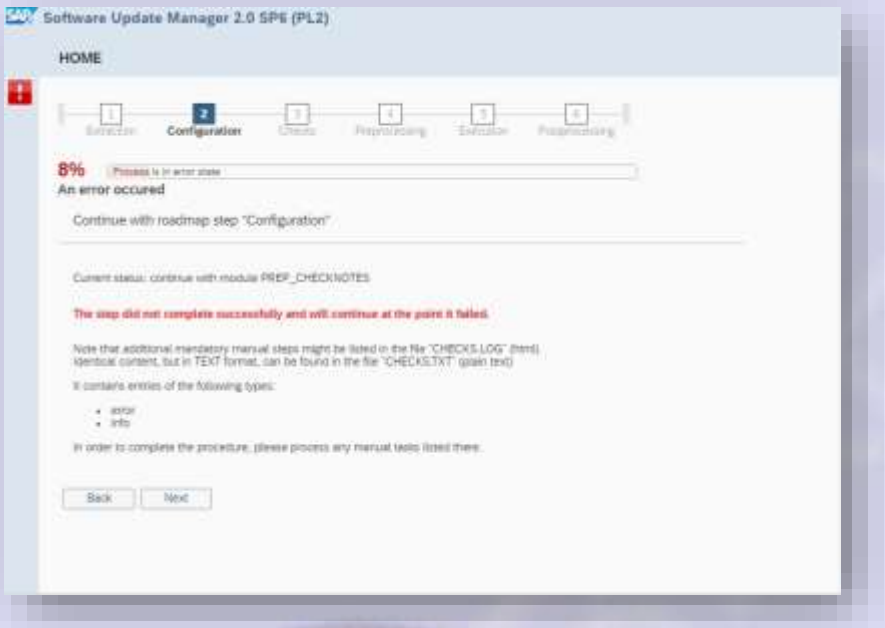


Leave it as default and click Next


Software Update Manager 2.0 SP6 (PL2)
*R3TRANS PROCESSES (UPTIME)
1
*R3TRANS PROCESSES (DOWNTIME)
3
Enter the maximum number of parallel R3load or table comparison processes:
*R3LOAD PROCESSES (UPTIME)
4
*R3LOAD PROCESSES (DOWNTIME)
4
Select the instance of your system that shall be used as background server:
Note: If it is different from the central instance (primary application server instance) host, /install/SUM/abap must be mounted on the background host.
Also note that during the system downtime, all background jobs are started on your central instance (primary application server instance) while the background server has to be shut down.
Automated batch job distribution (system will decide where to run the jobs)
s4hanaides_S4H_01 (3 batchprocesses located)
Choose an execution strategy for transaction SGEN.
Execution mode
Do not start ABAP load generation during the upgrade.
Generate ABAP loads on shadow system during uptime.
Start asynchronously in post downtime.
Generate ABAP loads on shadow system during uptime and start asynchronously in post downtime.
Enter the maximum number of processes to be used for load generation.
Note: Generation of ABAP program loads needs high CPU resources. Choosing a number too high might affect productive operation.
SGEN PROCESSES
1
Back
Next

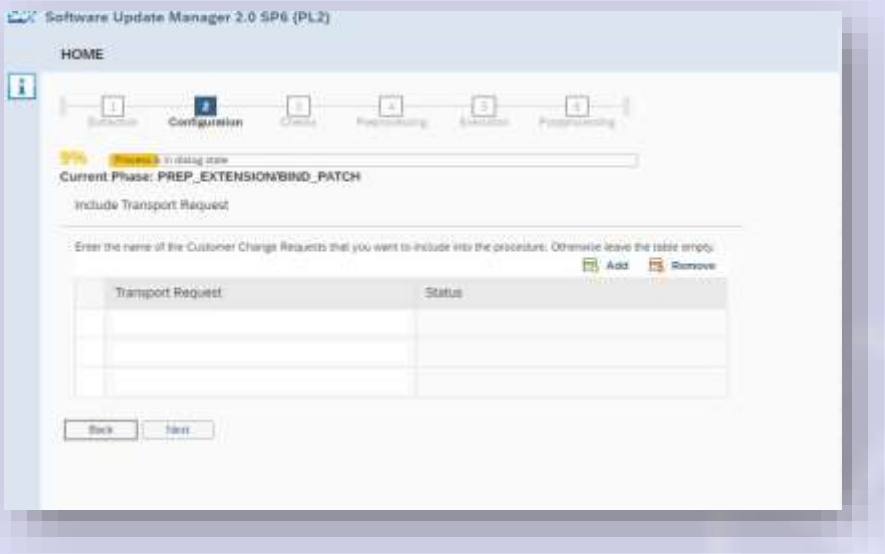

Software Update Manager 2.0 SP6 (PL2)
HOME
1 Extraction
2 Configuration
3 Checks
4 Preprocessing
5 Execution
6 Postprocessing
7% Process is in dialog state
Current Phase: PREP_CONFIGURATION/LANG_SELECT
Summary of Language Updates or Installations
Check your selected languages listed below, and provide the necessary archives for their installation or update.
The following languages will be updated:
Iso Name | Name | Location | Comment | Status
EN | English | /install/SUM/abap/tm... | | Update
DE | German | /install/SUM/abap/tm... | | Update
Back
Next

Error raised :

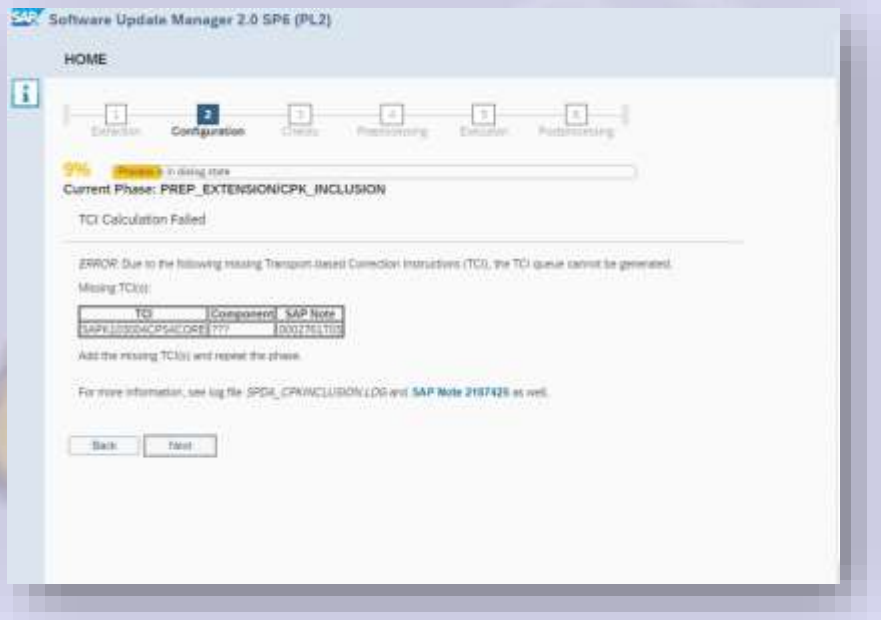


Check CHECKS.TXT file and implement following notes :

Leave it empty if no transport requests included, then click next



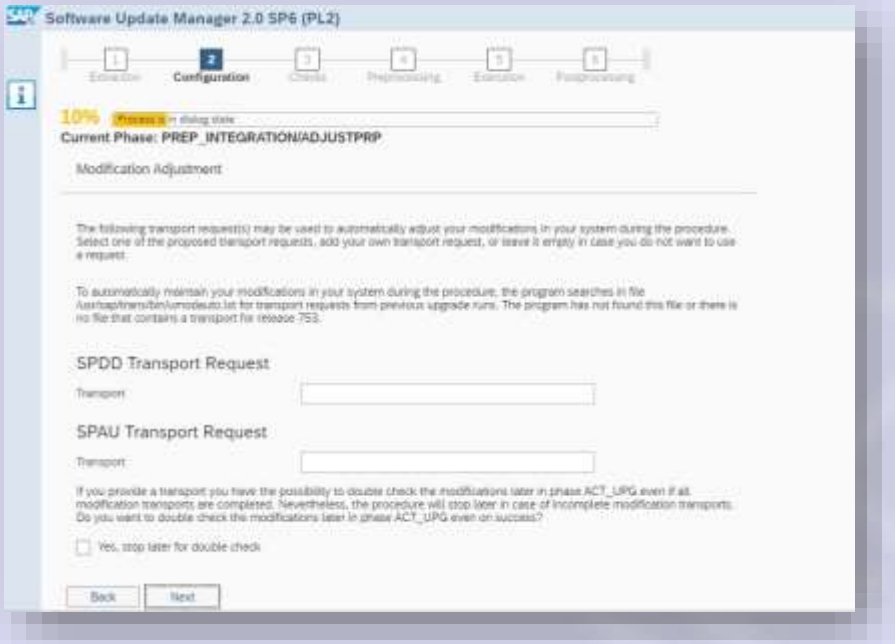
TCI missing error :



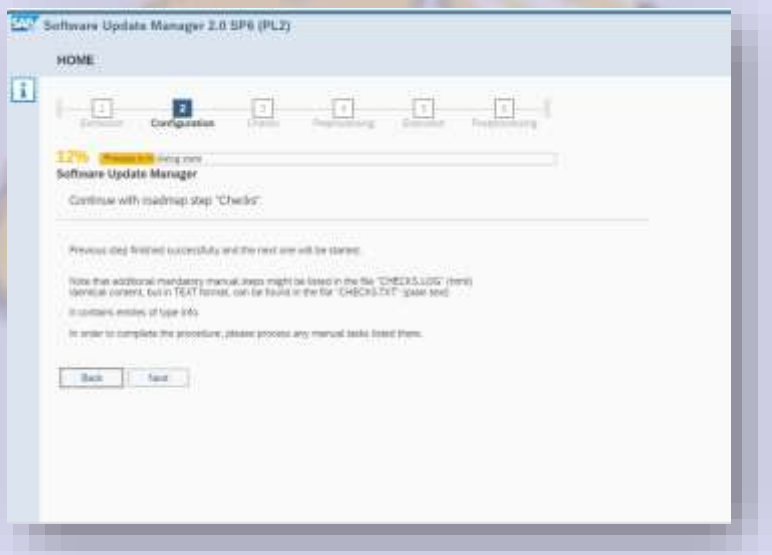
Download the TCI package (in this example, SAPK618009CPSAPAPPL.SAR) from the Software Download Center

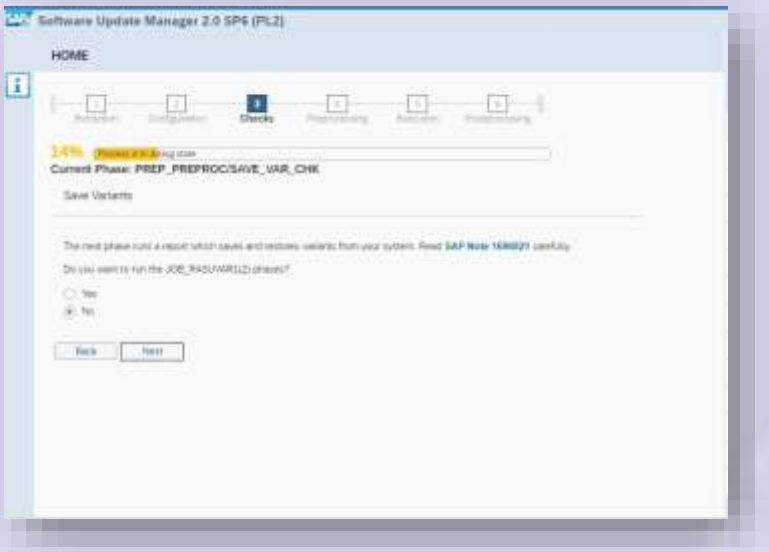
In Client 000, upload the file via SPAM: Select Support Package -> Load packages -> SAR Archives from Front End -> Navigate to the directory where you have downloaded the SAR file to Repeat the SUM phase on stopped point

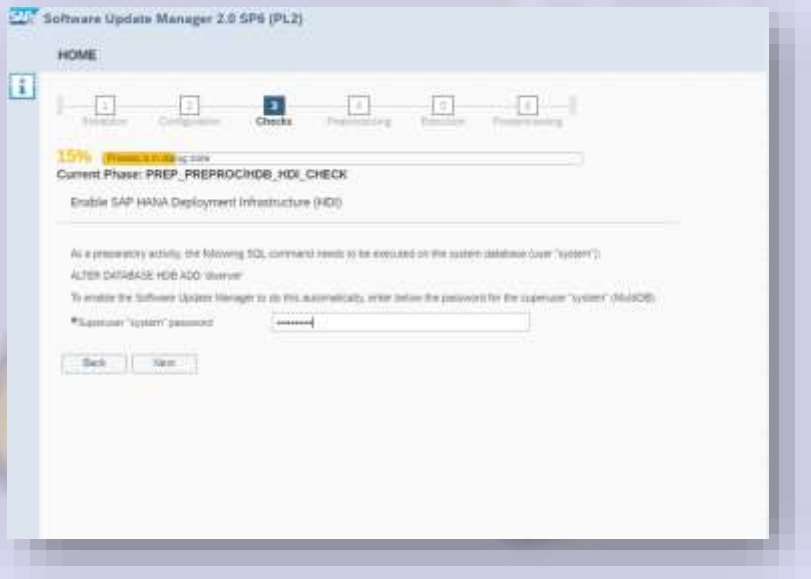
Leave it empty if we don't want to adjust modification



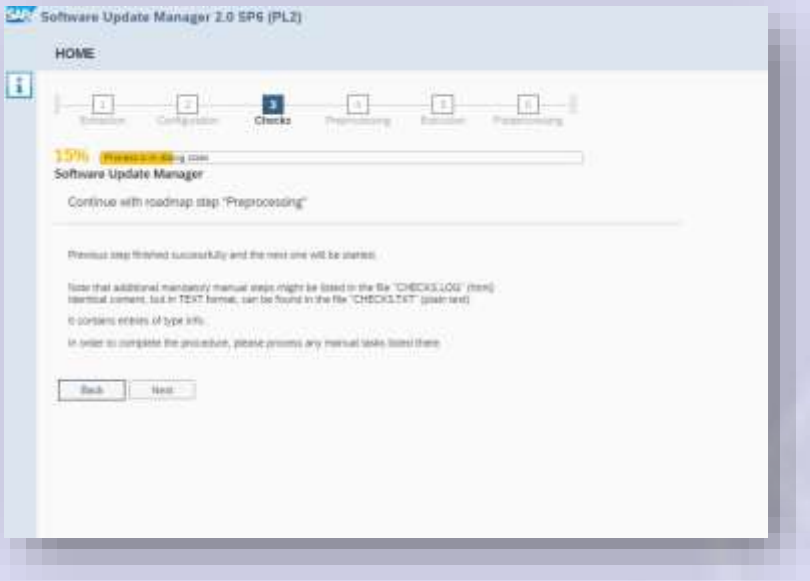
Click next to start check phase , determine whether you want to restore variant , then enter SYSTEM credential



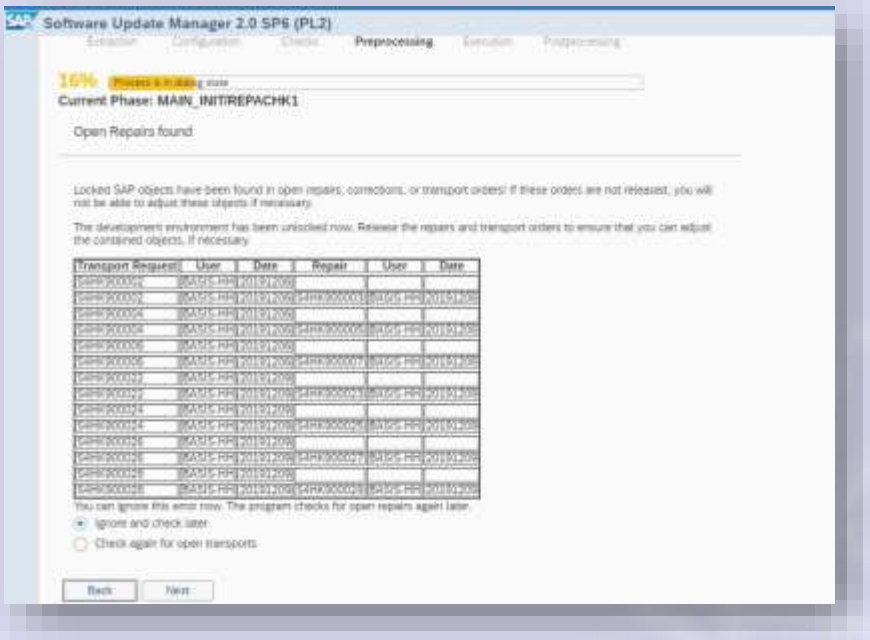




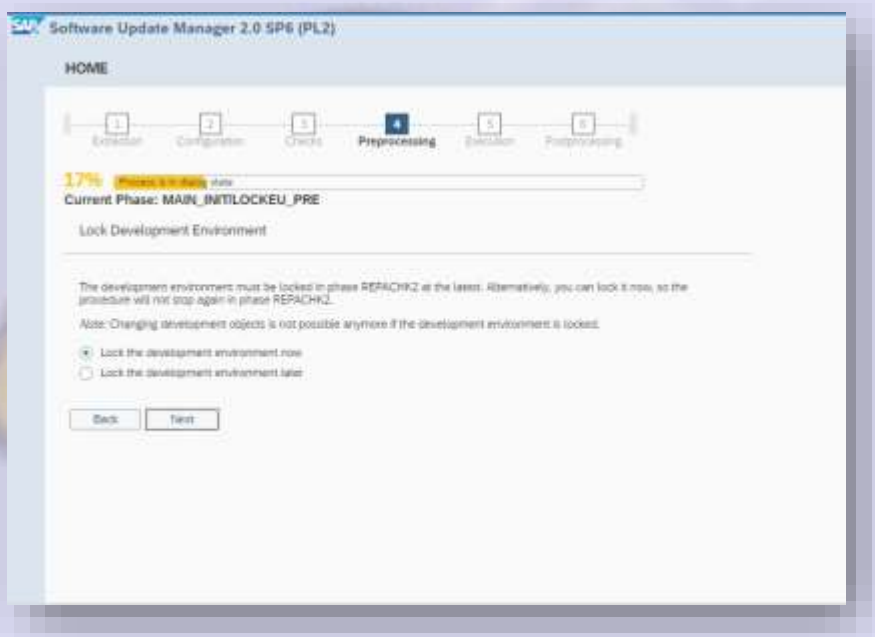
Click next to start next phase (preprocessing)

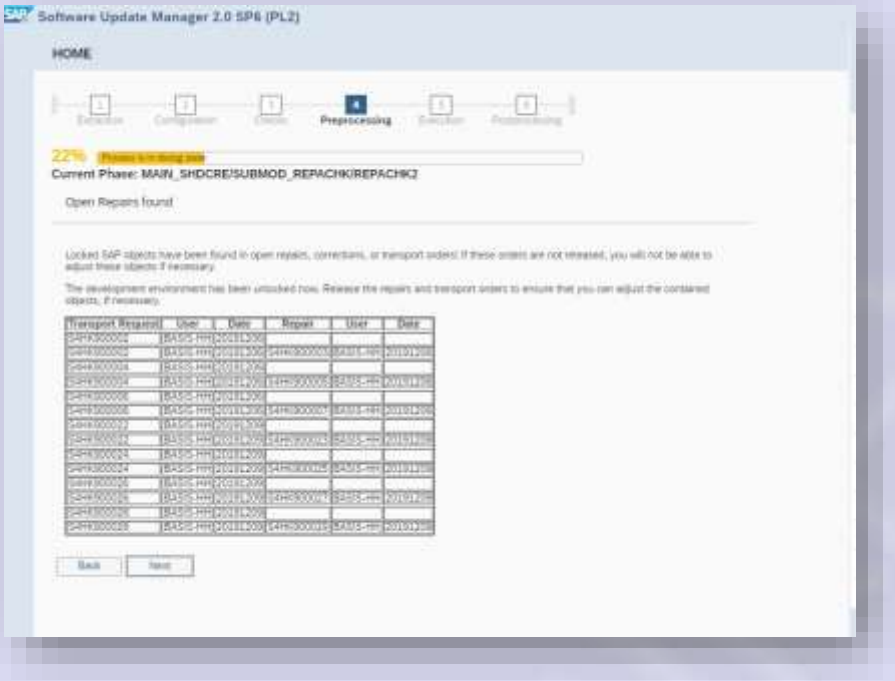


Some objects locked in TR , determine whether we ignore it and check later , check again for open transport



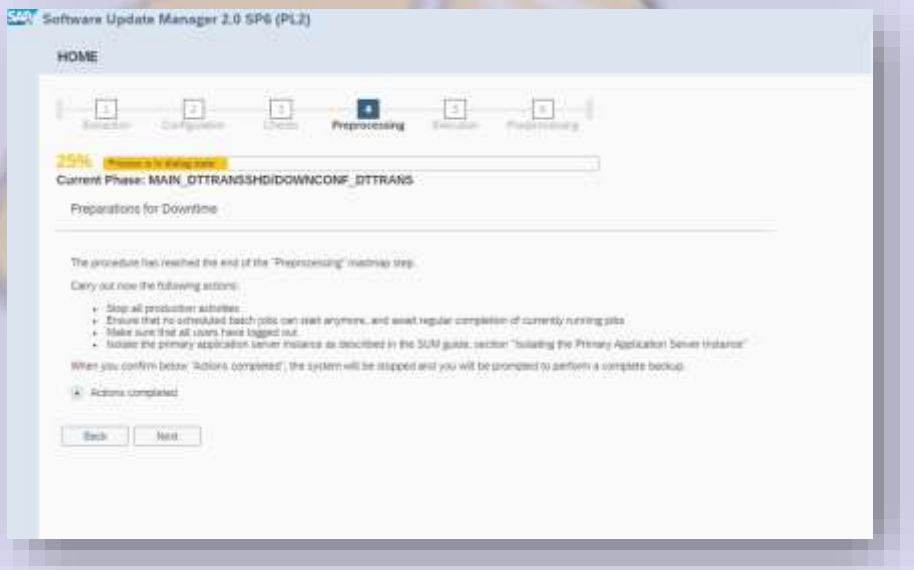
Click lock development now

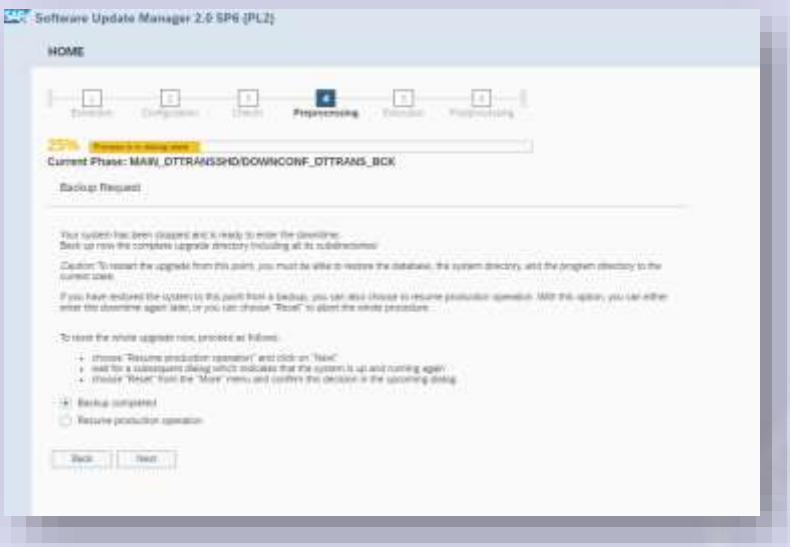




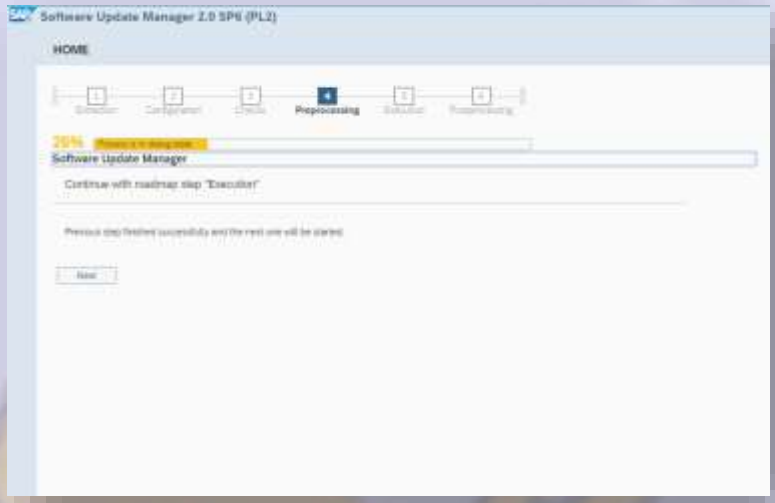
Release TR as above

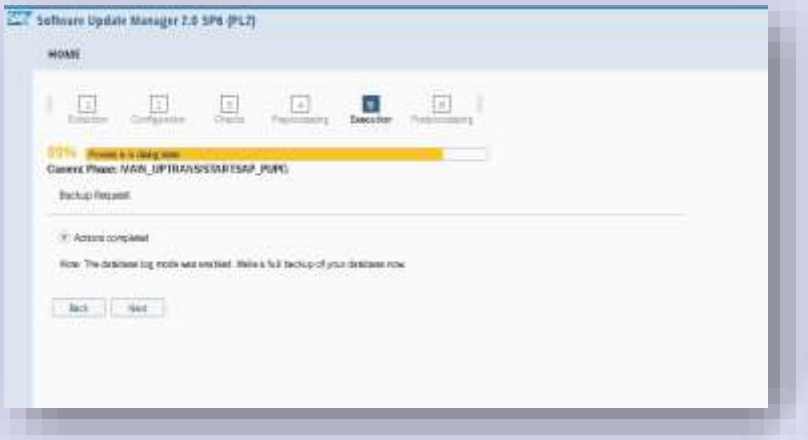
Click next to start next phase (execution), and confirm backup complete



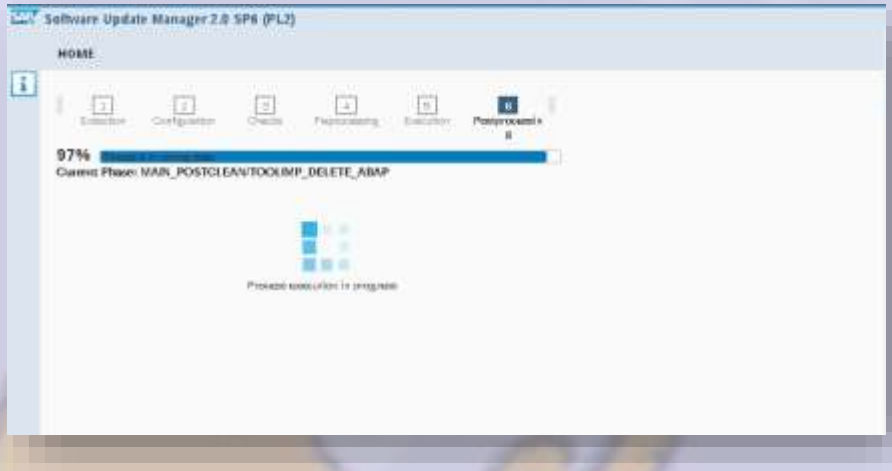


Continue execution phase , click next

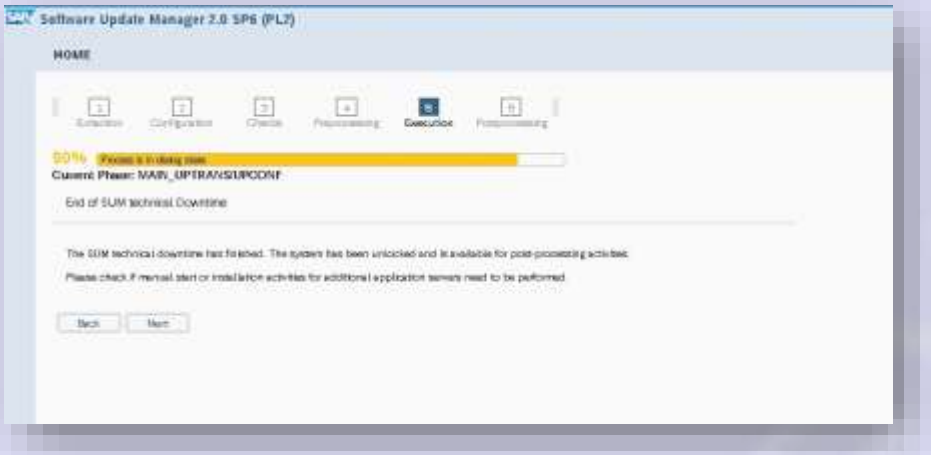




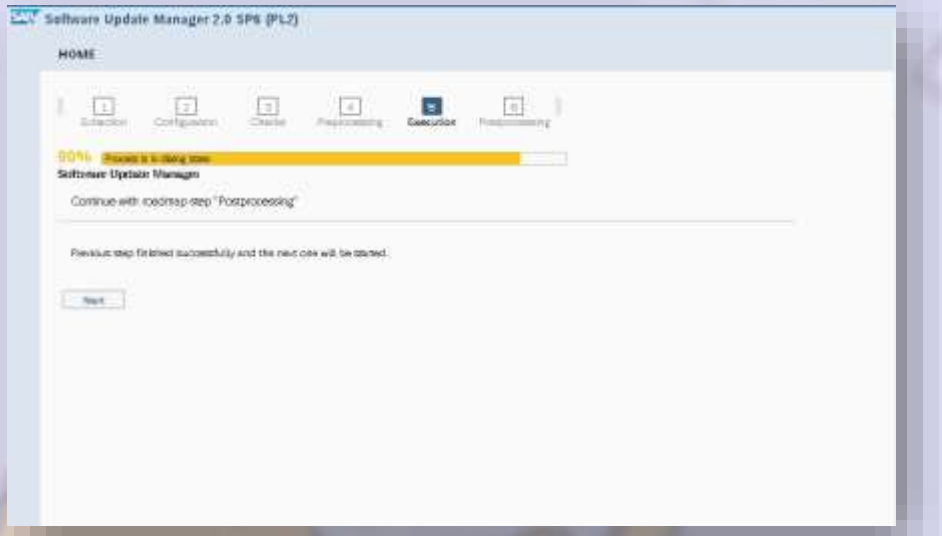
Execution phase running , it will take around 12 hours to complete

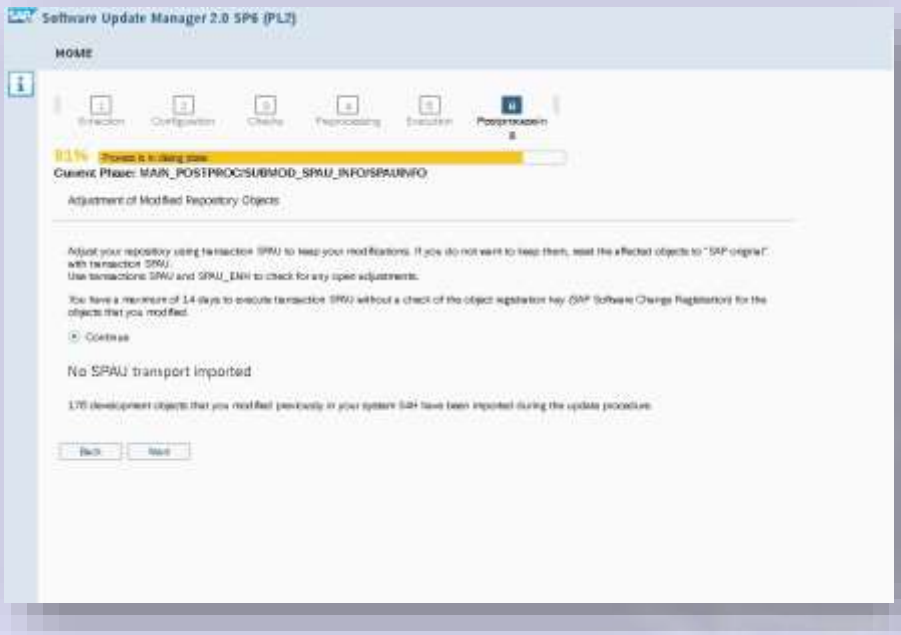


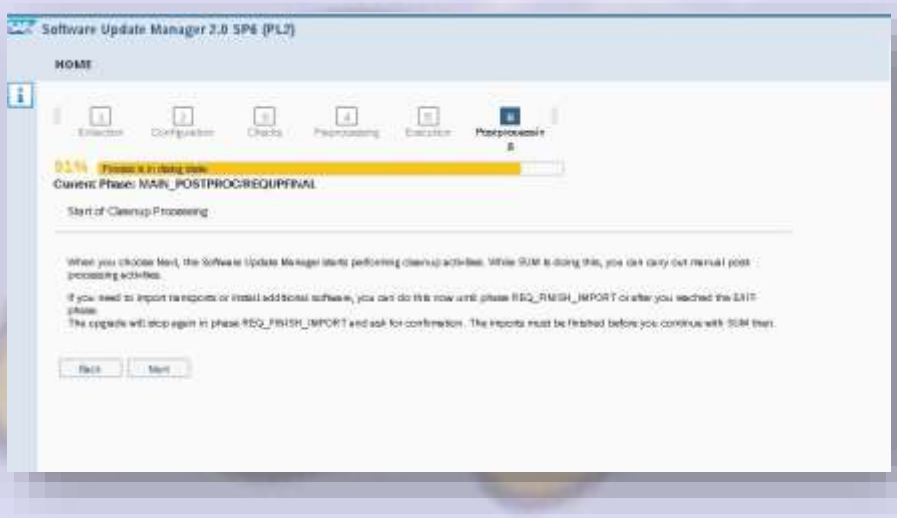
End SUM technical downtime

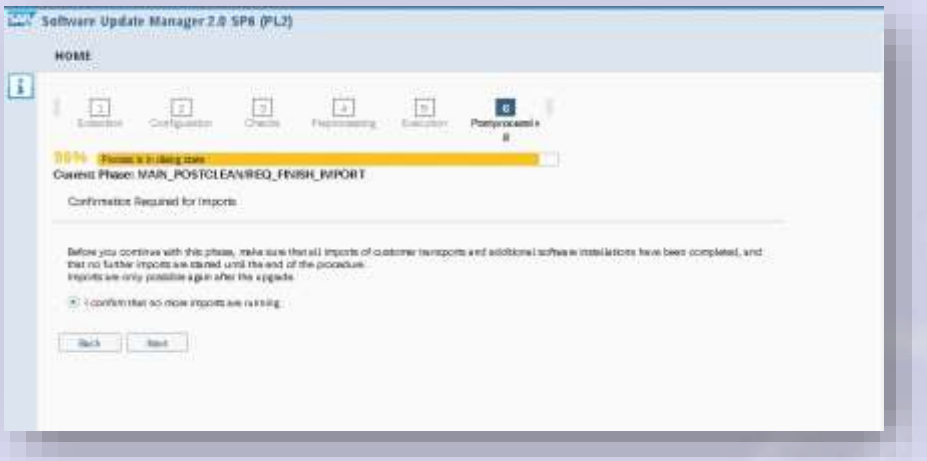


Click next to start postprocessing steps




Software Update Manager 2.0 SP6 (PL2)
HOME
Current Phase: MAIN_POSTPROC/SUBMOD_SPAU_INFO/SPAUINFO
Adjustment of Modified Repository Objects
No SPAU transport imported


Software Update Manager 2.0 SP6 (PL2)
HOME
Current Phase: MAIN_POSTPROC/REQUFINAL
Start of Cleanup Processing



Technical upgrade completed succesfully

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