

#### Extraction:

Path to the Stack Configuration XML File  
Mount Directories of SAP Upgrade Exports  
Download Directory Path  
Password of User DDIC and SAPService<SID>  
Check the sapcpe(Kernel Replication)  
sapnotes Implementation

#### Configuration

Password of User DDIC  
Mode of Upgrade(Downtime Minimized/Resource Minimized)  
password for Oracle System User  
Tools Version Check(SAP Kernel,tp,R3trans,if required Upgrade Kernel)  
SPAM Version Check(if required import latest SPAM)  
LANG\_SELECT to include Languages  
IS\_SELECT to include Add-ons  
BIND\_PATCH to include support packages  
select SPDD/SPAU Transport Requests  
Making Entries for the Shadow Instance

#### Checks:

Saving Variants of the ABAP Program Selection Screens  
RASUVAR1 to save and RSAUVAR2 to restore.  
Check for Incremental Conversion Flags  
System Checks(It checks all the above Before PreProcessing starts)

#### Preprocessing:

Confirm all the obsolete notes in Note Assistant  
Reset all the Non-Adjusted Objects to SAP Version in SPDD/SPAU  
Carry out the Outstanding Modification Adjustments and release the Work Bench requests  
Enter the Keyword(password) to include the Add-ons in the Upgrade Work Bench Lock to avoid further developments  
displays unreleased repairs/corrections(release in SE01)  
ACT\_UPG runs for considerable time based on version to activate and modification adjustment of SAP Objects.  
At end of Preprocessing the System is prompted to pause the background Jobs and Production Activities to start the Downtime Phase.  
Perform the backup of the System and ensure that sum logs are intact to restore/recover the system

#### Execution

Stop the System  
ACT\_UPG  
Copy and Setup environment variables/Profiles  
Change the Database Archiving mode to on  
Perform Database backup

#### Post Processing

- 1.Configuration of sapstartsrv
- 2.load generation
- 3.Identify the P-Errors in LONGPOST.LOG and resolve them before allowing the system for Upgrade.  
(example: Index are missing(recreate them in SE14)  
Perform Message Maintenance in SE91
- 4.All Modification to Repository Objects are adjusted(manually or through a Transport Request)
- 5.Cleanup activities in the background
- 6.System is unlocked for Production Operations
- 7.saves the Log Files.

## Issues during SUM Update/Upgrade

SUM File is Corrupted(download the Latest SUM from SMP)  
SAPCAR is outdated(Download the Latest SAPCAR from SMP)  
Check Read and Write Permissions on /usr/sap/SID/SUM for sidadm  
Check Permissions on Download directory.  
Document Passwords for DDIC and SAPSERVICE<SID>  
Ensure SAP Host Agent Configuration Latest(running state)  
Ensure that Port 1128/1129 are not in Use  
Ensure that Browser is Compatible to Run SUM Gui  
Ensure that enough space issues on the /usr/sap/SID/SUM/abap  
Ensure that enough space is available on the Database  
Ensure that enough space is available in oraarch directory  
Update SPAM/SAINT Version based on SAPCHECKS  
Ensure that All the Required downloads are not available  
Apply the Missing Notes(Update through SNOTE)  
The Buffer Entries are not Synchronised between Instances;  
set the parameters rdisp/bufrefmode=exeon,exeauto,rdisp/bufreftime=60  
Ensure that Kernel is updated based on SAPChecks  
Ensure that Permissions(rw) are set on the Kernel Directory  
There are open Transport Requests that need to be released.Release them  
in SE01  
There are locked Objects which are in repair status in SE03. Release them  
using SE03  
There are pending Updated in SM13 Delete All Outstanding Updates  
There are Outbound Queue RFC Calls in SMQ1.Delete them  
Ensure that ther are no open data Extraction Orders(rsal)  
Activation Errors to SAP Dictionary Object May arise. Activate them in  
SE11 of shadow system.