

Upgrade and Migration



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## **Need for Upgrade / Migration**

### **UPGRADE:**

Since technology and businesses evolve, All companies need to maintain a technological infrastructure that can support that change. This is the major reason why companies should undertake a technical upgrade of their SAP system.

### **Migration:**

A migration refers to the process of replaying actions from one system into another system.

EX: Migration means switching from sql(or any) to sybase(or any)...etc



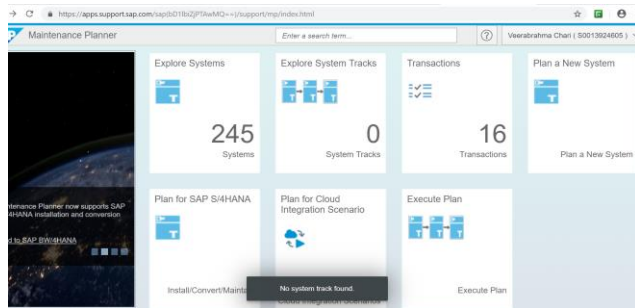
## Difference between Upgrades and Migrations

- upgrade only upgrades the software to the latest version and the new functionalities that come with the new version are not activated or implemented.
- Whereas in a functional upgrade, the functionalities offered by the new SAP version are also implemented in addition to technically upgrading the software.
- Migration is the process of replicating applications from one product in another product EX: Migration means switching from sql(or any) to sybase(or any), Cloud migration...etc

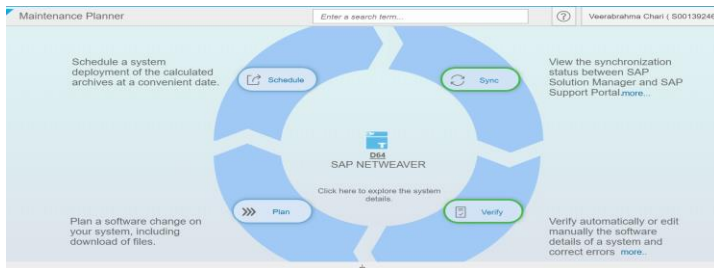


## Generation of Stack File :

Open Maintenance Planner from below URL given in below screenshot:  
<https://apps.support.sap.com/sap/support/mp>



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Click on Plan to generate Stack File:

Below example is for generate stack file for SAP NetWeaver 7.4.

- Selected :Upgrade SAP NetWeaver.
- Selected :SAP NetWeaver 7.4.
- Selected: Stack dependent and Independent Files.
- Details of overall selected components.
- Download Stack File.



## Upgrade / Migration Tools

### SUM is now offered in two Scenarios

1. SUM 1.0 SP 23
2. SUM 2.0 SP 04

#### Scenarios 1:

##### Software Update Manager 1.0 SP23:

The Software Update Manager (SUM) is the tool for various system maintenance procedures such as:

Release upgrades (major release change)  
System updates (EHP installation)  
Support Packages (SPs) / Support Package Stacks applications  
Java patches applications  
Corrections of installed software information

SUM 1.0 is always used if the source system is either a dual-stack system, or a Java stack.

SUM 1.0 is used for ABAP stack if target is based on BASIS 7.40 or lower



## Scenarios 2:

### Software Update Manager 2.0 SP04:

The Software Update Manager (SUM) is the tool for various system maintenance procedures such as:

- You want to update or upgrade an existing SAP NetWeaver AS ABAP based system using the Software Update Manager tool with version 2.0 SP04.
- Database migration also we can use this Software Update Manager tool with version 2.0 SP04 and SUM 2.0 is used for ABAP single stacks, targeting systems based on BASIS 7.50 and higher (exception: SUM 2.0 is used for ZDO even if target is BASIS 7.40 or lower).





### Database Migration option(DMO) :

**DMO** is alternative approach to classical migration (heterogenous system copy)

- System update, Unicode Conversion and database migration combined in one tool, one downtime
- Migration steps are simplified: consultant certification not required
- Business Downtime is reduced
- SAP's recommendation for migration target SAP HANA database: use DMO, if possible (see <https://blogs.sap.com/2017/11/22/comparing-sap-migration-procedures-to-sap-hana-database/>)

DMO: Business Case Upgrade and migration in a combined procedure reduces TCO and risks Combined procedure needs only one maintenance phase (not two)

- Reduces business downtime (TCO), less regression tests necessary In-place migration keeps application server and System-ID stable
- Low impact on system landscape: only database server is new Original database is kept, can be reactivated as fallback
- Reduces risk, no restore required, more time for testing before cutover No necessity for big export file share during migration
- Direct migration transfer without large dump files



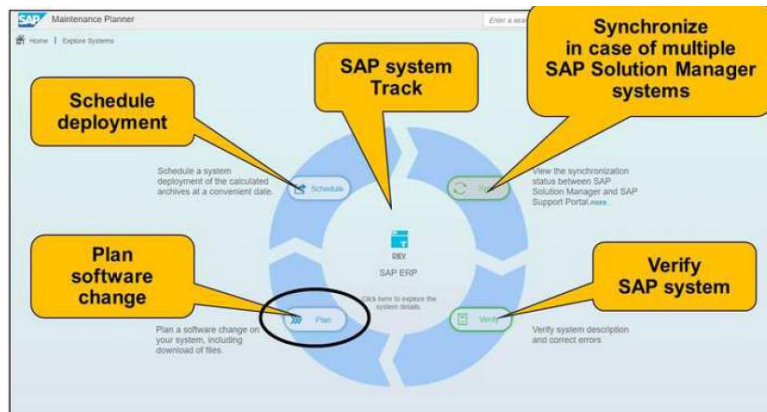
## **Software Provisioning Manager (SWPM)**

- To Install, copy, transform, split, rename, and uninstall products based on SAP NetWeaver AS ABAP and AS Java.



### **Maintenance Planner:**

- It is required to generate the XML file, For this need a Solution manager system.
- If you are using solution manager 7.1, There Maintenance Optimizer (MOpz) available.
- If you are using solution manager 7.2, There Maintenance Planner (MP) available.
- Maintenance Planner (MP) URL : <https://apps.support.sap.com/sap/support/mp>.
- Before installation, Download and unpack the latest version of Software Provisioning Manager(SWPM).
- Downloading Installation Media it include SAP Installation , DB Installation, Latest kernel...etc.
- Download the media in to the download directory & Unpack all into the same directory.



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### **Product Availability Matrix (PAM):**

- PAM regularly publish information about SAP software releases: release types, maintenance durations, planned availability, and upgrade paths. The PAM also offers information about platform availability, including database platform and operating systems.

PAM URL:

- [https://apps.support.sap.com/sap\(bD1IbiZjPTAwMQ==\)/support/pam/pam.html?smpsrv=https%3a%2f%2fwebsmp106.sap-ag.de#ts=0](https://apps.support.sap.com/sap(bD1IbiZjPTAwMQ==)/support/pam/pam.html?smpsrv=https%3a%2f%2fwebsmp106.sap-ag.de#ts=0)



## Simple view of PAM

**SAP** Product Availability Matrix Welcome Veerabrahma Chari

[My Favorites](#) [Display All Product Versions](#) [Available as of Q2/2019 or Q3/2019](#) [Maintenance Ending Soon](#) [Copy Link](#)

### Welcome to the SAP Product Availability Matrix!

Here you can find details about SAP software product versions, including availability and end of maintenance dates, upgrade paths, and technical release information (database platforms, Java platforms, operating systems, and so on).

[Display All Product Versions](#)

### News

#### November 9, 2018: Direct Link to Open Source Notices Document Available

All customers with a license for a software product version can access the Open Source Notices document of the software product

### Most Viewed

- [SAP NETWEAVER 7.5](#)
- [SAP NetWeaver 7.5](#)
- [SAP NETWEAVER 7.4](#)
- [SAP NetWeaver 7.4](#)
- [SAP S/4HANA 1809](#)
- [SAP S/4HANA 1809](#)
- [EHP8 FOR SAP ERP 6.0](#)
- [SAP enhancement package 8 for SAP ERP 6.0](#)
- [SAP SOLUTION MANAGER 7.2](#)
- [SAP Solution Manager 7.2](#)

### Productive available as of Q2/2019 or Q3/2019

- [CPM4.5 WITH SAPHANA BY CELONIS](#)
- [SAP Process Mining 4.5 by Celonis](#)
- [EGOVERNMENT BY OT V16.3.1](#)
- [SAP Extended Enterprise Content Management for government 16.3.1 by OpenText](#)
- [EHS REGCONT DG 1904](#)
- [SAP EHS Regulatory Content, dangerous goods package 1904](#)

### Useful Links

- [PAM Search Tips](#)
- [Buy SAP Solutions](#)
- [SAP Innovation Discovery](#)
- [SAP Transformation Navigator](#)
- [SAP Road Maps](#)
- [SAP Release Strategy](#)
- [SAP Early Adopter Care](#)
- [SAP Maintenance Strategy](#)
- [SAP Globalization Services](#)

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## Upgrade Types and Strategies

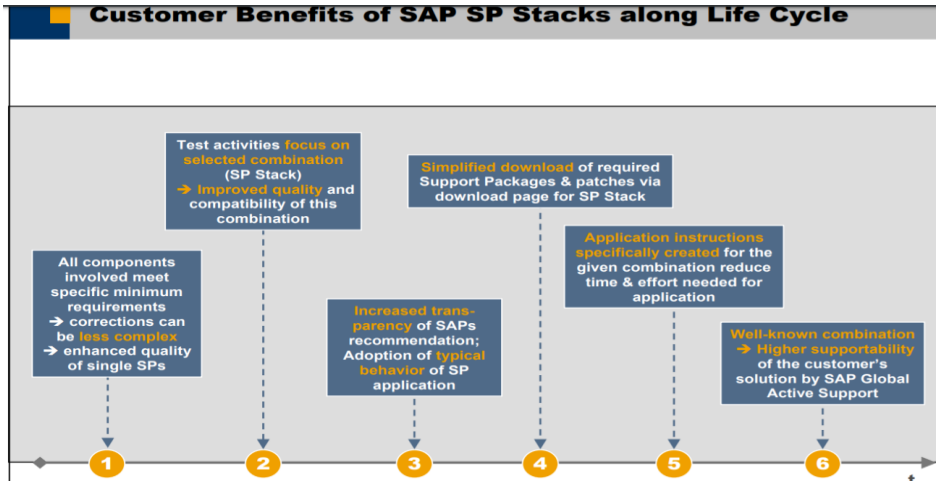
### SP Upgrade :

- SAP collects all the corrections in one place and this collection is called SUPPORT PACKAGE. This support package also includes enhancements to earlier versions of SAP.
- SPAM/SAINT Update contains updates and improvements to Support Package Manager (SPAM) and Add-On Installation Tool (SAINT). There is always one SPAM update for each release. SPAM/SAINT update is mandatory before any support package upgrade

### Stack Upgrade:

- SAP recommends the application of support package stacks at least once a year so that all corrections can be implemented. To optimize quality

Customer benefit of the Stack Upgrade :



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- It has become evident that the majority of customers perform a planned maintenance for each productively used SAP application between once and four times a year. This usually affects all components of the given SAP application.

**The actual frequency of a planned maintenance however depends on many factors, like:**

- The specific situation at customer side (e.g. projects, productive status, ...) .
- The SAP application itself (e.g. technical conditions, legal changes, ...) .
- The advantage of already running on the latest Support Package or patch level, especially when SAP support is needed .
- The risk estimation of operating with already known errors (hence incurring unnecessary costs or having to react at short notice) .
- The estimated costs of a planned maintenance .



## EHP Upgrade

- Enhancement Package **upgrade** is moving from one enhancement package release to another for an SAP solution. For example, **EHP upgrade** from SAP ERP 6.0 EHP3 to ERP 6.0 EHP5
- By using SUM tool we can do the EHP upgrade.



Q & A



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