

Overview – Dual-Stack Split Procedure of Software Provisioning Manager 1.0

SAP SE – Product Management
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Public



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Introduction

The dual-stack split procedure got **integrated into *Software Provisioning Manager 1.0*** – the procedure is no longer available as standalone tool

Overall, *Software Provisioning Manager 1.0* offers relevant procedures required to install, copy, and transform SAP systems in your landscape

Dual stack vs. single stack

Definition – what is a dual-stack system?

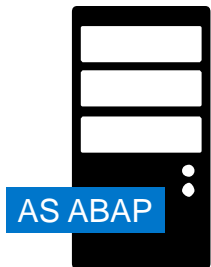
Definition:

SAP system that contains both SAP NetWeaver Application Server ABAP and Java with following characteristics:

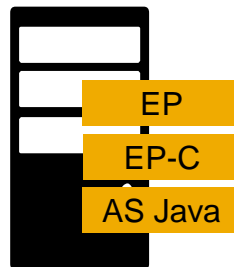
- One common SAP system ID (SAPSID)
- One common startup framework
- One common database

Examples:

SAP ECC
(ABAP
single stack)

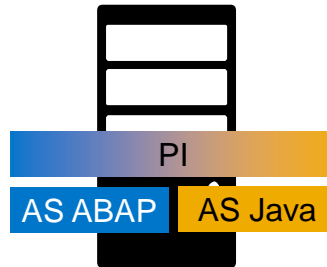


SAP Enterprise
Portal (Java
single stack)

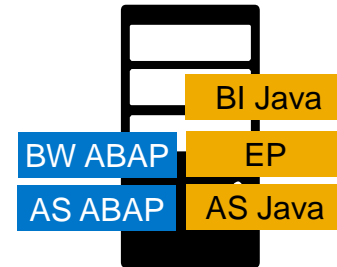


SAP Process Integration
(mandatory*
dual stack)





*) for SAP Process Integration < 7.5



SAP Business
Warehouse with
SAP BEx Web
(optional dual stack)



Legend

-  Capability based on ABAP
-  Capability based on Java
-  Capability based on ABAP & Java
-  Single system (SAPSID)

Dual stack vs. single stack

Why decided SAP to move away from dual stack?

Aspect	Dual Stack	Single Stack
Setup & configuration effort	↑	↓
Backup & recovery effort	↑	↓
Sizing	0	0
Monitoring	↓	0
Security	↓	0
Administration / software maintenance	0	↑
Flexibility	↓	↑
Scalability	↓	↑
Availability	↓	↑



Conclusion

- Advantages for dual stack only in some areas of lifecycle management
- Certain benefits can also be achieved with other means
- For other areas, tools & procedures provided on landscape level
- **Altogether, only some goals reached on expense of other areas**

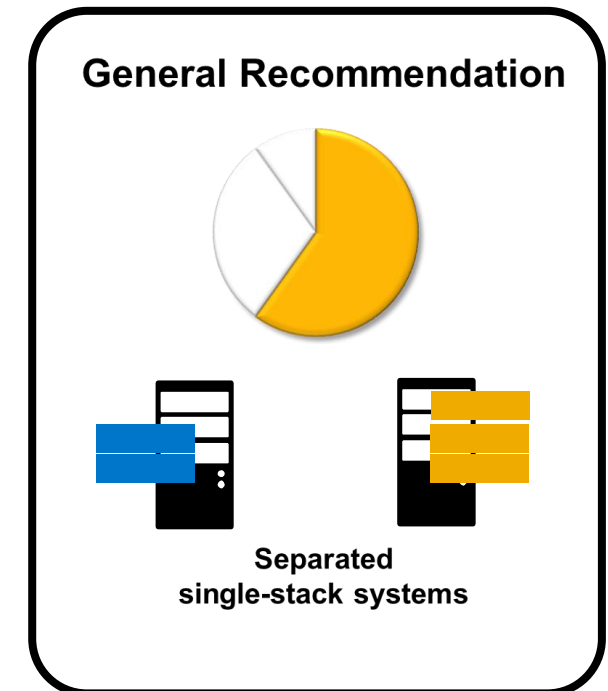
Dual stack vs. single stack

Resulting general recommendation

SAP provides clear recommendations for customers how to deploy different capabilities based on SAP NetWeaver in a solution landscape

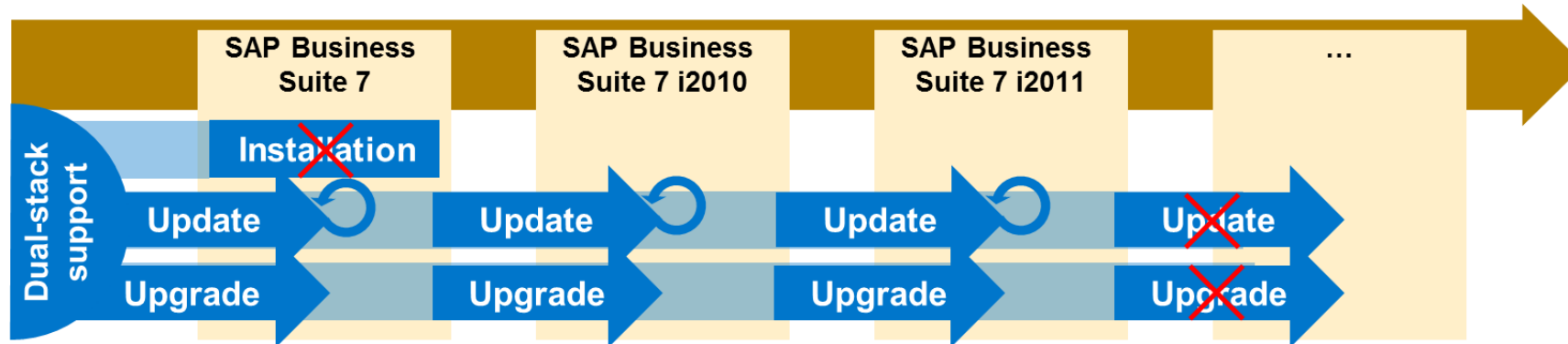
- Based on SAP's product strategy and considering experiences from existing customer landscape layouts – also see previous slide
- **General recommendation:**
Deploy ABAP and Java in separate systems (where possible)

For more information, see, see presentation *How to Deploy SAP NetWeaver – Dual Stack vs. Separated Stacks* in [SAP Community Network](#)



Dual stack vs. single stack

Status quo: SAP Business Suite



Installation:

As of **SAP Business Suite 7**, you can no longer install dual-stack application systems

- SAP Business Suite 7 comprises SAP ERP 6.0 EHP4, CRM 7.0, SCM 7.0, PLM 7.04, SRM 7.0

Upgrade/update:

SAP Business Suite 7 i2011 is last SAP Business Suite release with dual-stack support – no upgrade/update of dual-stack SAP Business Suite systems to higher releases!

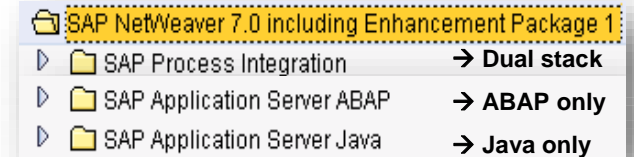
- SAP Business Suite 7 i2011 comprises SAP ERP 6.06, CRM 7.02, SCM 7.02, PLM 7.06, SRM 7.02
- Other SAP-NetWeaver-based systems that have SAP Business Suite components deployed might also be treated as SAP Business Suite systems in this regard (for more information, see [SAP Note 1816819](#)) – for example, an SAP Enterprise Portal system with SAP Business Suite business packages deployed and set up as dual-stack could not be upgraded to SAP NetWeaver 7.3x

Dual stack vs. single stack

Status quo: other systems based on SAP NetWeaver

Installation:

As of **SAP NetWeaver 7.0 Enhancement Package 1 (EHP1)**, you can no longer install dual-stack application systems (apart from SAP PI $\leq 7.4x$)



SAP NetWeaver 7.0 including Enhancement Package 1	
▶ SAP Process Integration	→ Dual stack
▶ SAP Application Server ABAP	→ ABAP only
▶ SAP Application Server Java	→ Java only

Upgrade/update:

SAP NetWeaver 7.31 is last release with support of optional dual-stack systems – no upgrade/update of optional dual-stack SAP NetWeaver and SAP Business Warehouse systems to higher releases (such as SAP NetWeaver 7.4)!

Exceptions:

- Workarounds to install dual-stack SAP Business Warehouse 7.0 EHP1 system – see [SAP Note 1181025](#)
- Dual-stack SAP Process Integration systems with a release ≤ 7.4 remain supported remain supported – for more information, see next slide
- SAP NetWeaver systems with product instance Mobile Infrastructure (MI) are not supported by dual-stack split procedure
 - SAP NetWeaver Mobile Infrastructure is not part of SAP NetWeaver 7.31 or SAP NetWeaver 7.4
 - Therefore, dual-stack deployments of SAP NetWeaver Mobile Infrastructure cannot be upgraded anyhow, but have to be migrated – for more information, see the [Migration Guide – SAP NetWeaver Mobile](#)

Dual stack vs. single stack

Status quo: SAP Process Integration

Dual-stack SAP PI systems with a release ≤ 7.4 remain supported as dual-stack systems – new installation, update and upgrade to these releases still supported

Installation of SAP PI 7.5 and higher:

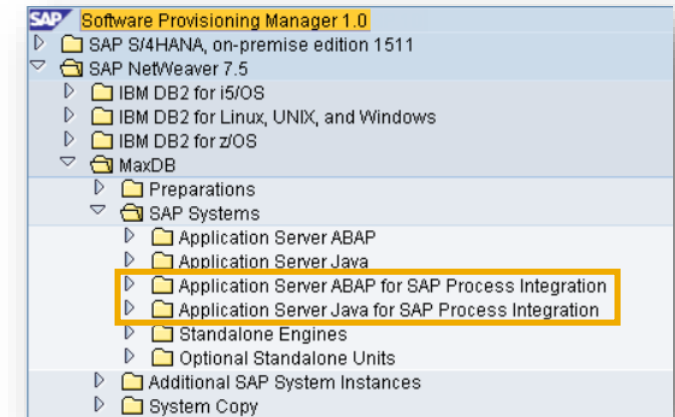
- For SAP systems based on SAP NetWeaver 7.5 and higher, dual stack no longer supported, without exception
- As a consequence, no dual-stack installation is offered as of SAP PI 7.5 – instead, standard installation consists of a separate ABAP + a separate Java stack
 - 1 You install 'Application Server ABAP for SAP Process Integration': there, also Java users for AS Java for SAP Process Integration system are created and system is prepared to get connected to AS Java
 - 2 You install 'Application Server Java for SAP Process Integration': 'AS Java for SAP PI' system uses User Management Engine (UME) of 'AS ABAP for SAP PI' system that you must have installed before

Upgrade to SAP PI 7.5 SP1 and higher:

- After upgrading to SAP PI 7.5, you first have to split still existing dual-stack SAP PI systems before their usage is supported – for this, dual-stack split procedure now also offered for SAP PI 7.5

Alternative Option:

- Starting with SAP NetWeaver 7.3, there is an additional Java-only offering for main process integration capabilities called *Advanced Adapter Engine Extended*, covering ~95% of a classical SAP PI dual-stack environment, feasible to most use cases – SAP recommends to migrate SAP PI content to single-stack objects
 - Due to harmonized process orchestration stack (SAP PI and SAP BPM running on same Java instance), many of ccBPM features in SAP PI can be expressed using SAP BPM capabilities instead
- For more information about the migration of SAP PI content to single-stack objects, see:
 - SAP Help Portal: [Migration of Dual-Stack Configuration Objects \("Classical Scenarios"\) to Integrated Configuration Scenarios \(Java-Only\)](#)
 - Blogs in SAP Community Network: [Moving Integration Directory Artifacts from dual stack to single stack](#) and [SAP Directory Content Migration Tool](#)



Dual stack vs. single stack

Status quo: SAP Solution Manager

SAP Solution Manager 7.1 systems remain supported as dual-stack systems – new installation, update and upgrade of SAP Solution Manager systems to this release still supported

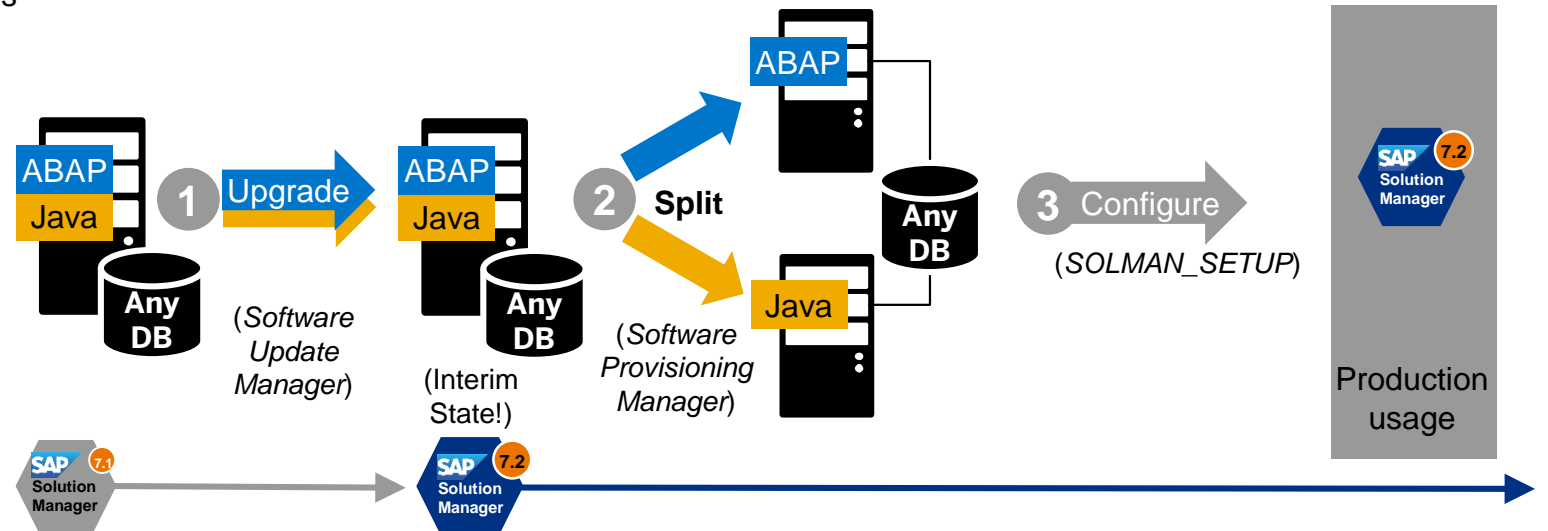
Installation:

For **SAP Solution Manger 7.2**, no dual-stack installation is offered – instead, standard installation consists of a separate ABAP + a separate Java stack

Upgrade:

For **SAP Solution Manager systems upgraded to 7.2**, dual-stack split procedure is offered + mandatory

- Figure below gives schematic overview of required activities
- For actual procedures and available options (including information about a simplified procedure, if you plan to migrate to SAP HANA or SAP ASE as part of the split), see documentation *Technical Path to SAP Solution Manager 7.2 powered by SAP HANA* and [SAP Note 2227300](#)



Dual stack vs. single stack

Status quo: SAP HANA

SAP HANA does not support dual stack

Dual-stack split is prerequisite for migration of existing dual-stack systems to SAP HANA



Dual stack vs. single stack

Dual-stack split procedure

1 Separation of Java stack

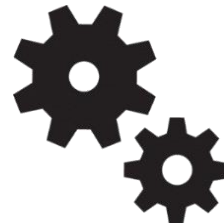
Separation of Java stack out of dual-stack source system into new system

- Export of Java stack + file system
- Optional deactivation of Java in source system
- Installation of target Java system with exported load



2 Post-split activities

Re-configuration, such as of technical connectivity between ABAP and Java – automated for certain use cases/product versions



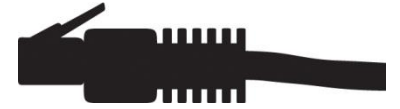
3 Removal of Java stack from source system

- Removal of Java-related SAP system information within source system
- Can optionally be used to only remove Java stack (without split)



Dual-stack split

Available via the Software Logistics Toolset 1.0 (SL Toolset)



Dual-stack split procedure is offered by **Software Provisioning Manager 1.0** (integrated as of SL Toolset 1.0 SPS09, no longer offered standalone)

Software Provisioning Manager 1.0 is delivered in **regular intervals, independent** from SAP application product shipments via **Software Logistics Toolset**, a central collection of software logistics tools, always up to date:

- SL Toolset is the central place in *SMP download area* to find & download SL tools
- Toolset and tools updated regularly, product-independent, downward-compatible
- Updates include new tools as well as recent improvements & enhancements

For more information and download, see SAP Support Portal at:

<http://support.sap.com/sltoolset> (incl. **direct download links** for comprised tools)

SAP recommends that you download the latest Support Package of the tool, as it contains latest corrections and is updated regularly!



Further information



For more information on **Software Provisioning Manager 1.0:**

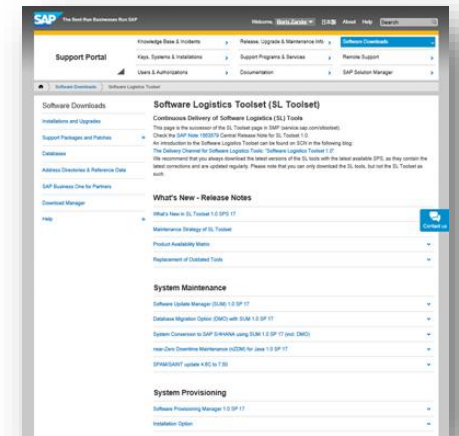
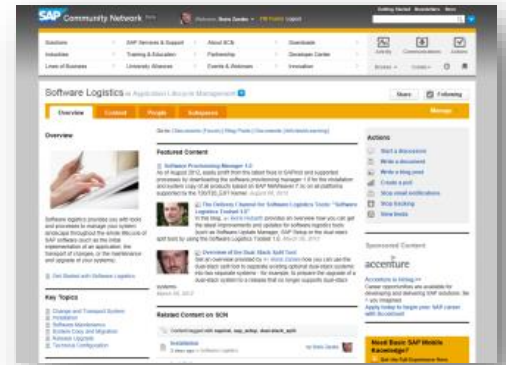
- *SAP Release Note:* [SAP Note 1680045](#)
- [Software Provisioning Manager 1.0 in SAP Community Network](#)

For more information on dual-stack split procedure:

- [Dual-Stack Split in SAP Community Network](#)
- [SAP Note 1797362](#)

For more information on Software Logistics Toolset:

- [Blog in SAP Community Network](#)
- SAP Support Portal at: <http://support.sap.com/sltoolset>



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- Complements traditional channels of interaction and feedback at SAP
- Contribute under <https://ideas.sap.com/softwarelogistics>

The screenshot shows the SAP Idea Place interface for the 'Software Logistics' category. The page includes a search bar, navigation tabs for 'SUBMIT IDEA', 'HOW IT WORKS', 'ALL IDEAS', 'DELIVERED IDEAS', and 'ADMIN'. A blue banner at the top displays the category name and a lightbulb icon. Below this, a 'Leaderboard' table lists top contributors with their names and point counts. A 'Recent Ideas' section shows a list of ideas with their titles, descriptions, authors, and dates. A 'Categories' section on the left lists various software logistics topics.

User	Points
Boris Zarske	108
Nicolas Busson	65
Berthier Nicolas	38
Bogdan Caradaica	35
Princely Albert Ath...	35
Jens Gleichmann	33
Karin Spiegel	27
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BI4.1 webi export to excel only For a webi report In BI 4.1 sp03, there ...	CYLEEZL CY	02/14 12:56am
SUM MSCS Cluster release upgrade: Automa... Currently, after an upgrade of an PI dou...	Thomas Kra...	05/14 5:44am
Include copy and paste functions for alv... Hello SAP Ideas, We need to copy...	Ivan Gonza...	04/14 4:34pm
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Categories

- Solution implementation
- System transformation
- Change control management
- Maintenance and upgrade management



Thank you

Contact information:

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SAP SE – Product Management for Cloud and Lifecycle Management

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