

## SAP Fiori Front-end Server upgrade for Standalone system from SAP FES3.0 to SAP Fiori Front-end Server 2020 for SAP S/4HANA

In my all previous S/4HANA upgrade post shared multiple scenarios with Fiori dependencies with Standalone and Embedded system, it totally depends on the Business usage how you want to system landscape to be configured.

Sharing recent worked dependencies for Fiori in 4-different customer scenario, during planning of S4HANA upgrade to 2020.

- 1) **Source system:** S/4HANA 1610, with **Standalone** Fiori FES3.0 in running ASE DB.  
**Target system:** S/4HANA 2020, upgrade **Standalone** Fiori 2020.
- 2) **Source system:** S/4HANA 1709, with **Standalone** Fiori FES3.0 in running Sybase ASE, but they want to **Embedded** into running S/4HANA1709 with upgrade to FES 6.0 and then testing 200+ Apps before upgrade to latest.  
**Target system:** S/4HANA 2020, with embedded Fiori
- 3) **Source system:** S/4HANA 1809 with Fiori running in **one application** along with HANA but customer request before upgrade to **split** the Fiori in separate host running in ASE.  
**Target system:** S/4HANA 2020, with **standalone** Fiori and its rework ☺ but customer is Boss in terms of hardware scale up in landscape, testing efforts for migration in new DB and integration.
- 4) **Source system:** S/4HANA along with Fiori running in the initial implementation stage but due to load or business requirement  
**Target system:** Customer request is to migrate separate into Sybase ASE DB from HANA.

As you can see FES upgrade also can be different based on the customer business requirement and initial planning is most important checking all areas with deployment option and system landscape recommendation as well product availability maintenance.

### **SAP Fiori Front-End Server**

SAP Fiori Front-End Server offers a bundle of technology components that are required to run SAP Fiori scenarios. It contains the following:

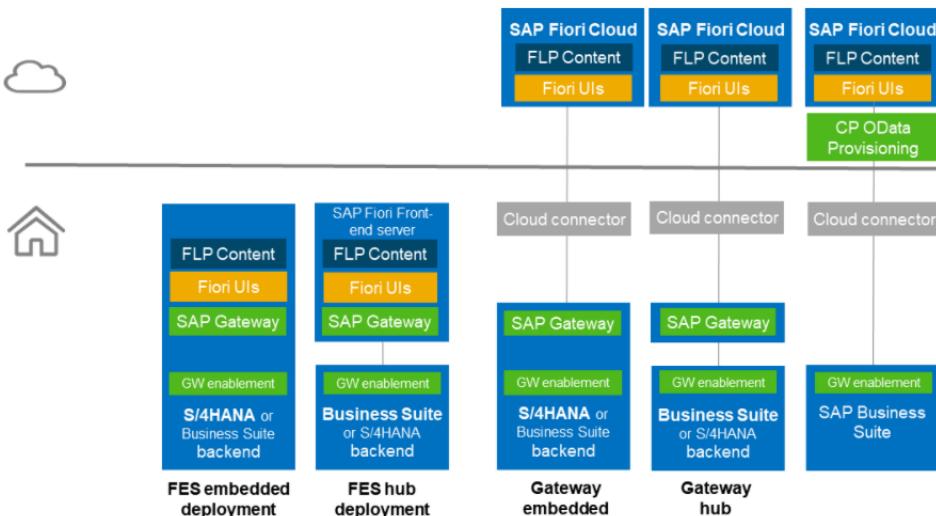
- The [UI development toolkit for HTML5 \(SAPUI5\)](#) framework and the components to run the [SAP Fiori launchpad](#) on the ABAP stack,
- The [SAP Gateway](#) core components on the ABAP stack,
- The SAP Fiori Implementation Foundation,
- SAP Fiori Basis Apps (available only with SAP NetWeaver 7.5 or higher).

SAP Fiori Front-end Server does not provide any new technical components. It has been created to define the exact stacks required for SAP Fiori application versions and thereby simplify customer consumption.

### **Deployment Architecture**

The deployment architecture of SAP Fiori FES is based on the following main technical components:

## SAP Fiori Deployment



SAP Fiori Community Wiki [Link](#) its going to be retired soon but you gain knowledge once read.

Please refer to [SAP Fiori Deployment Options and Landscape Recommendations](#) guide for the latest information on SAP Fiori Frontend Server architecture options. The guide is updated every few months. \*\*\*

### Introducing SAP Fiori Front-End Server

[What is FES?](#)

[What Deployment of FES is Optimal?](#)

[Deployment Architecture of FES](#)

[General Deployment Options for FES](#)

[Embedded FES Deployment](#)

[Central Hub FES Deployment](#)

### SAP Fiori in SAP S/4HANA On Premise

[Embedded FES Deployment](#)

[Central Hub FES Deployment](#)

[Mixed FES Deployment](#)

### SAP Fiori Cloud

[SAP Business Suite Connector via SAP Cloud Platform](#)

[OData Provisioning](#)

[SAP Business Suite and SAP S/4HANA OP Connector via](#)

[Embedded SAP Gateway](#)

[SAP Business Suite and SAP S/4HANA OP Connector via](#)

[Discrete SAP Gateway Server](#)

### Other Deployment Scenarios

[SAP Fiori with SAP Cloud Platform Mobile Services](#)

[SAP Fiori Mobile with SAP Authenticator Excluding  
Mobile Platform](#)

### Further Sources of Information

### **Important notes:**

- As SAP S/4HANA 1511 is only released with SAP FES 2.0, there is no option to just upgrade SAP FES 2.0 to a higher FES version. An upgrade to a higher SAP S/4HANA release is recommended.
- SAP FES 2.0 and 4.0, both are out of maintenance since December 31<sup>th</sup>, 2020. An upgrade to SAP Fiori front-end server 6.0 is recommended or an upgrade to a higher SAP S/4HANA release.
- SAP FES 6.0 is the long-term maintenance version and the recommended go-to-version for SAP FES upgrades for SAP S/4HANA releases lower than 1809.
- SAP Fiori front-end server 2020 for S/4HANA supports only the latest SAP S/4HANA releases 1809/1909/2020. It cannot be used with older SAP S/4HANA releases.
- To consume future SAP Fiori UI innovations also for SAP S/4HANA releases lower than 1809 systems, an upgrade to a higher SAP S/4HANA release is recommended.
- For SAP FES 2020 for S/4HANA, both deployment options - embedded and FES standalone server - are supported. The embedded deployment is recommended.
- SAP FES 2020 is the last version supporting IE11 as browser, see also this blog post.

### **Upgrade Recommendations**

SAP FES 6.0 is the long-term maintenance version and the recommended go-to-version for SAP Fiori front-end server upgrades for SAP Business Suite and SAP S/4HANA customers.

This following graph shows the upgrade options of SAP FES for the different SAP S/4HANA releases in an embedded deployment.

Each SAP S/4HANA release comes with an initial SAP FES version as a minimum version. For example, for SAP S/4HANA 1709 the minimum version is SAP FES 4.0. It can be upgraded to SAP FES 5.0 or SAP FES 6.0 independent from SAP S/4HANA software components as shown in the graph. The recommendation is to upgrade directly to SAP FES 6.0.

SAP FES 3.0 is out of maintenance since 31th of December 2019. An upgrade to SAP FES 6.0 is recommended.

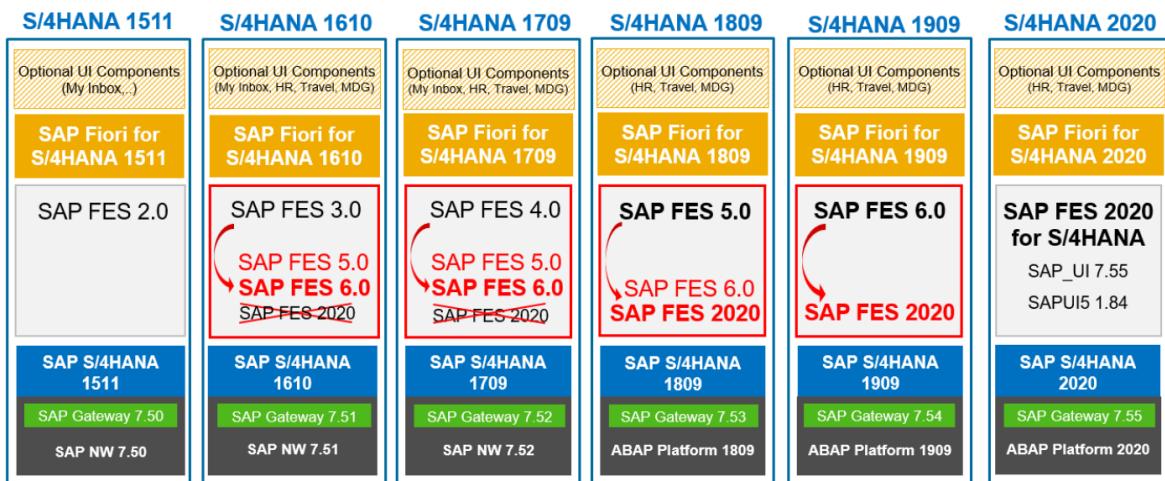
**Note:** It's recommended to apply the most recent patch of SAPUI5 after upgrading the SAP\_UI component; for example, apply the latest available SAPUI5 1.71.xx patch after upgrading to SAP\_UI 7.54 SP02 which is included in FES 6.0 SP01. For more information on the latest available SAPUI5 patches and how to apply, see SAP Notes [2346367](#) and [2856654](#) (for SAPUI5 1.71).

**Restrictions:** Please note, that for specific apps of software component "UI for Basis Applications" (UIBAS001) there are dependencies to the SAP S/4HANA backend or SAP NetWeaver version. See also SAP Note [2898376](#).

## **SAP Fiori Front-end Server upgrade to 2020 for SAP S/4HANA**

**In Month May 2021:** Additional hints regarding SAP Fiori front-end server maintenance period according to SAP note [2217489](#) and restrictions regarding the compatibility of apps of component UIBAS001 600 with S/4HANA backend releases, as described in SAP note [2436567](#).

**In February 2021:** Release of SAP Fiori front-end server 2020 for SAP S/4HANA SP01 which includes SAPUI5 1.84 as long-term maintenance version and which also supports SAP Business Suite in the hub or standalone server deployment



Schedules for [Maintenance](#) Deliveries SAP Fiori front-end Server 2021 for SAP S/4HANA

SAP Fiori front-end server for SAP S/4HANA			
Product Version	SP Stack Level	Planned Availability	End of Maintenance*
SAP Fiori front-end Server 2021 for SAP S/4HANA	ISS / SPS00	CW41/2021	31/12/2024
SAP Fiori front-end server 2020 for SAP S/4HANA	ISS / SPS00	CW41/2020	31/12/2023
SAP Fiori front-end server 2020 for SAP S/4HANA	SPS01	CW08/2021	31/12/2023
SAP Fiori front-end server 2020 for SAP S/4HANA	SPS02	CW21/2021	31/12/2023
SAP Fiori front-end server 2020 for SAP S/4HANA	SPS03	CW44/2021	31/12/2023

## [SAP Note: 2436567 - UI for Basis Applications - General Information](#)

While downloading patch from maintenance planner, here is the catch for ignore 2 upgrade if you are running in lower version. Check how play around to generate and download the patches direct for SAP FES to 2020.

Also, I tried to provide more information with SAP Notes, Link to refer, Product Maintenance change in UI components and more.

The screenshots illustrate the process of defining a software change for SAP Fiori Front-end Server (BFS) using the SAP Fiori Launchpad.

**Screenshot 1: Initial Planning View**

The interface shows the "Plan changes on BFS\_S420" screen. On the left, under "Current Software Detail", the "SAP FIORI FOR SAP S/4HANA 1610 [SPS\_08\_(10/2019)]" component is expanded, listing various UI modules. On the right, a sidebar provides options for software management:

- Install or Maintain an Add-on
- Update SAP NetWeaver
- Uninstall Add-ons
- Plan a Minimum Software Change

**Screenshot 2: Selection View**

The interface shows the "Plan changes on BFS\_S420" screen. The "Install or Maintain an Add-on" option is selected. Under "Target Software Detail", the "SAP FIORI FRONT-END SERVER 6.0" component is selected, and its sub-components (SAP Frontend Server 7.51, UI FOR EHP7 FOR SAP ERP 6.0, UI FOR SAP PORTF PROJ MGMT 6.0) are listed. A "Confirm Selection" checkbox is checked.

**Screenshot 3: Final Planning View**

The interface shows the "Plan changes on BFS\_S420" screen. The "Target Software Detail" section now lists the selected components for the change. The sidebar on the right remains the same, providing options for software management.

MP\_BFD\_S420\_20210704\_073723

Define Change    Select Files    Download Files    Complete

Plan changes on BFD\_S420

Install or Maintain an Add-on  
 Update SAP NetWeaver

Enter a product version name

NW AS ABAP 7.52  
 NW AS ABAP 7.51 INNOVATION PKG

Select Support pac...

Select Support package Stack

08 (04/2021) - Release and Information Note: 0003046964  
 07 (10/2020) - Release and Information Note: 0003046932  
 06 (04/2020) - Release and Information Note: 0002914901  
 05 (10/2019) - Release and Information Note: 0002850414

### Select NW: 7.52 SP8

MP\_BFS\_S420\_20210704\_072447

Define Change    Select Files    Download Files    Complete

Plan changes on BFS\_S420

SAP FIORI FRONT-END SERVER 6.0 [SPS SP04 (04/2021)]  
 SAP Frontend Server 7.52

SAP FIORI FOR SAP S/4HANA 1610 [SPS 08 (10/2019)]  
 UI for SAP S/4HANA (FES 5.0+)  
 UI for HCM 2.0 (FES 5.0+)  
 UI for HCM (obs.) (FES 5.0+)  
 UI for ILM (obsolete)

Install or Maintain an Add-on  
 Update SAP NetWeaver

MP\_BFS\_S420\_20210704\_072447

Define Change    Select Files    Download Files    Complete

Plan changes on BFS\_S420

SAP FIORI FES 2020 FOR S/4HANA  
 SAP FIORI FOR SAP S/4HANA 2020

UI for HCM (Fiori 2.0)  
 UI for HCM (obsolete)  
 UI for ILM (obsolete)  
 UI for MDG

Confirm Selection

**Plan changes on BFS\_S420**

UI for ILM (obsolete)  
 UI for MDG  
 UI for MDG (obsolete)  
 UI for SAP S/4HANA  
 UI for TRV  
 SAP FIORI FES 2020 FOR S/4HANA  
 SAP Frontend Server 7.52 (Hub)  
 Update SAP NetWeaver

SP01 (02/2021) - ... i

**Select OS/DB dependent files**

Technical Name	Version	Description
<input type="checkbox"/> Linux on Power LE 64bit		Linux on Power LE 64bit
<input checked="" type="checkbox"/> Linux on x86_64 64bit		Linux on x86_64 64bit

**Select OS/DB dependent files**

Technical Name	Version	Description
<input checked="" type="checkbox"/> SAP ASE		KRNL64UC 7.53
<input checked="" type="checkbox"/> SAP KERNEL 7.53 64-BIT UNICODE		SAPHOSTAGENT 7.21
<input type="checkbox"/> SAP HANA database		SAPHOSTAGENT 7.22
<input type="checkbox"/> SAP HOST AGENT 7.21		BC-FES-IGS 7.53
<input checked="" type="checkbox"/> SAP HOST AGENT 7.22		SUM 2.0
<input checked="" type="checkbox"/> SAP IGS 7.53		Linux on zSeries 64bit
<input checked="" type="checkbox"/> SOFTWARE UPDATE MANAGER 2.0		
<input type="checkbox"/> Linux on zSeries 64bit		

**Select Stack Dependent and Independent files**

You may de-select support packages, if required, in this step. Maintenance Planner will validate the software packages again in such a case.

Technical Name	Version	Description
<input checked="" type="checkbox"/> OS_DB		
<input checked="" type="checkbox"/> ABAP		
<input checked="" type="checkbox"/> NON-ABAP		

MP\_BFS\_S420\_20210704\_072447 1001226641

Select Stack Dependent and Independent files

You may de-select support packages, if required, in this step. Maintenance Planner will validate the software packages again in such a case.

Details of Stack dependent and independent files

Technical Name	Version	Description
OS_DB		
ABAP		
NON-ABAP		

Reselect OS/DB Files

Download Files

Technical Name	Description	Size [KB]
SAP_UI755 SAR	Attribute Change Package 04 for SAP_UI 755	5
SAP_BASIS752 SAR	Attribute Change Package 11 for SAP_BASIS 752	5
UIMDG001200 SAR	Attribute Change Package 11 for UIMDG001 200	4
UITRV001300 SAR	Attribute Change Package 11 for UITRV001 300	4
UIMDC001200 SAR	Attribute Change Package 13 for UIMDC001 200	4
UIHR001100.SAR	Attribute Change Package 27 for UIHR001 100	4
UIHR002100 SAR	Attribute Change Package 27 for UIHR002 100	4

Download Stack XML Push to Download Basket Utilities Additional Downloads

Download Files

Technical Name	Description	Size [KB]
SAP_UI755 SAR	Attribute Change Package 04 for SAP_UI 755	5
SAP_BASIS752 SAR	Attribute Change Package 11 for SAP_BASIS 752	5
UIMDG001200 SAR	Attribute Change Package 11 for UIMDG001 200	4
UITRV001300 SAR	Attribute Change Package 11 for UITRV001 300	4
UIMDC001200 SAR	Attribute Change Package 13 for UIMDC001 200	4
UIHR001100.SAR	Attribute Change Package 27 for UIHR001 100	4
UIHR002100 SAR	Attribute Change Package 27 for UIHR002 100	4

Download Stack XML Push to Download Basket Utilities Additional Downloads

Extracted SUM at below location:

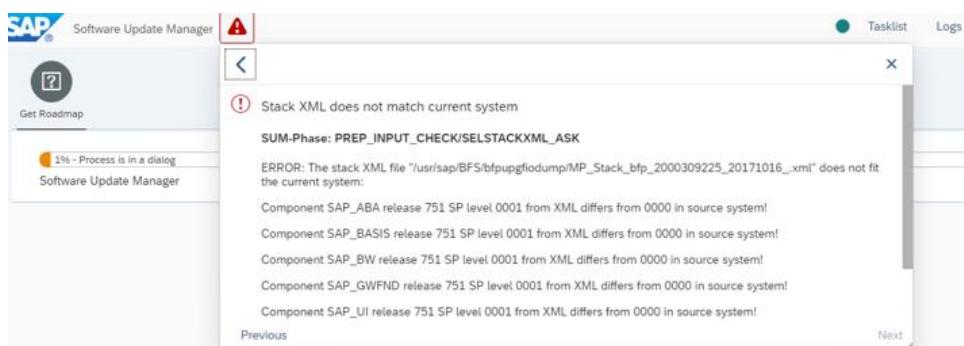
```
drwxr-xr-x 4 btsadm sapsys 51 Jun 24 11:16 SUM
-rw-r--r-- 1 btsadm sapsys 352574484 Jul 6 16:07 SUM20SP11_0-80002456.SAR
-rw-r--r-- 1 btsadm sapsys 46 Jul 6 16:07 SUM20SP11_0-80002456
-rwrxr-xr-x 1 btsadm sapsys 4587520 Jul 7 10:18 SAPCAR
drwxr-xr-x 2 btsadm sapsys 12288 Jul 7 10:19 dump
```

Starting SUM with root:

```
drwxr-xr-x 5 btsadm sapsys 65 Nov 26 2020 hostagent
-rwxr-xr-x 1 btsadm sapsys 6903 Dec 21 2020 SUMSTART
drwxr-xr-x 2 btsadm sapsys 34 Dec 21 2020 hana
drwxr-xr-x 2 btsadm sapsys 31 Jan 15 23:30 syb
drwxr-xr-x 3 btsadm sapsys 12288 Jan 15 23:30 control
-rw-r--r-- 1 btsadm sapsys 360 Jun 24 11:14 sumabap.mf
drwxr-xr-x 2 btsadm sapsys 6 Jun 24 11:14 sapnames
drwxr-xr-x 2 btsadm sapsys 6 Jun 24 11:14 exe
drwxr-xr-x 10 btsadm sapsys 182 Jun 24 11:15 doc
drwxr-xr-x 2 btsadm sapsys 8192 Jun 24 11:16 data
drwxr-xr-x 2 btsadm sapsys 8192 Jun 24 11:16 cofiles
drwxr-xr-x 2 btsadm sapsys 62 Jun 24 11:16 mailNotifier
drwxr-xr-x 2 btsadm sapsys 4096 Jun 24 11:16 bin_781
drwxr-xr-x 2 btsadm sapsys 4096 Jun 24 11:16 bin
:~/UPG2020/BFSUPG/SUM/abap # ./SUMSTART confighostagent BFS
```



Reinstalled host agent and killed old SUM process (ps -ef|grep SUM)



The image consists of three vertically stacked screenshots of the SAP Software Update Manager 2.0 SP11 (PL0) application. Each screenshot shows a different step in the configuration process:

- Screenshot 1:** Shows the initial configuration screen where the user is prompted to specify a scenario category. The "Scenario using Stack Configuration File" option is selected, and a "Stack file" input field contains the path "/UPG2020/BFSUPG/dump/BFS\_MP\_Stack\_1001226641\_2021074\_xml".
- Screenshot 2:** Shows the configuration screen after the stack file has been specified. The "Stack file" input field now contains the full path, and the "No Stack Configuration File required for scenario" option is selected.
- Screenshot 3:** Shows the configuration screen after the stack file has been specified. The "Stack file" input field now contains the full path, and the "No Stack Configuration File required for scenario" option is selected. This screen also includes a "Scenario Strategy" section with options for "Standard (standard configuration)" and "Downtime-optimized (high configuration)".

The image consists of three vertically stacked screenshots of the SAP Software Update Manager 2.0 SP11 (PL0) interface. The top two screenshots show the 'Upgrade on SAP NetWeaver (Standard)' process, while the bottom one shows the 'Upgrade on AS ABAP (Standard)' process.

**Screenshot 1: Upgrade on SAP NetWeaver (Standard)**

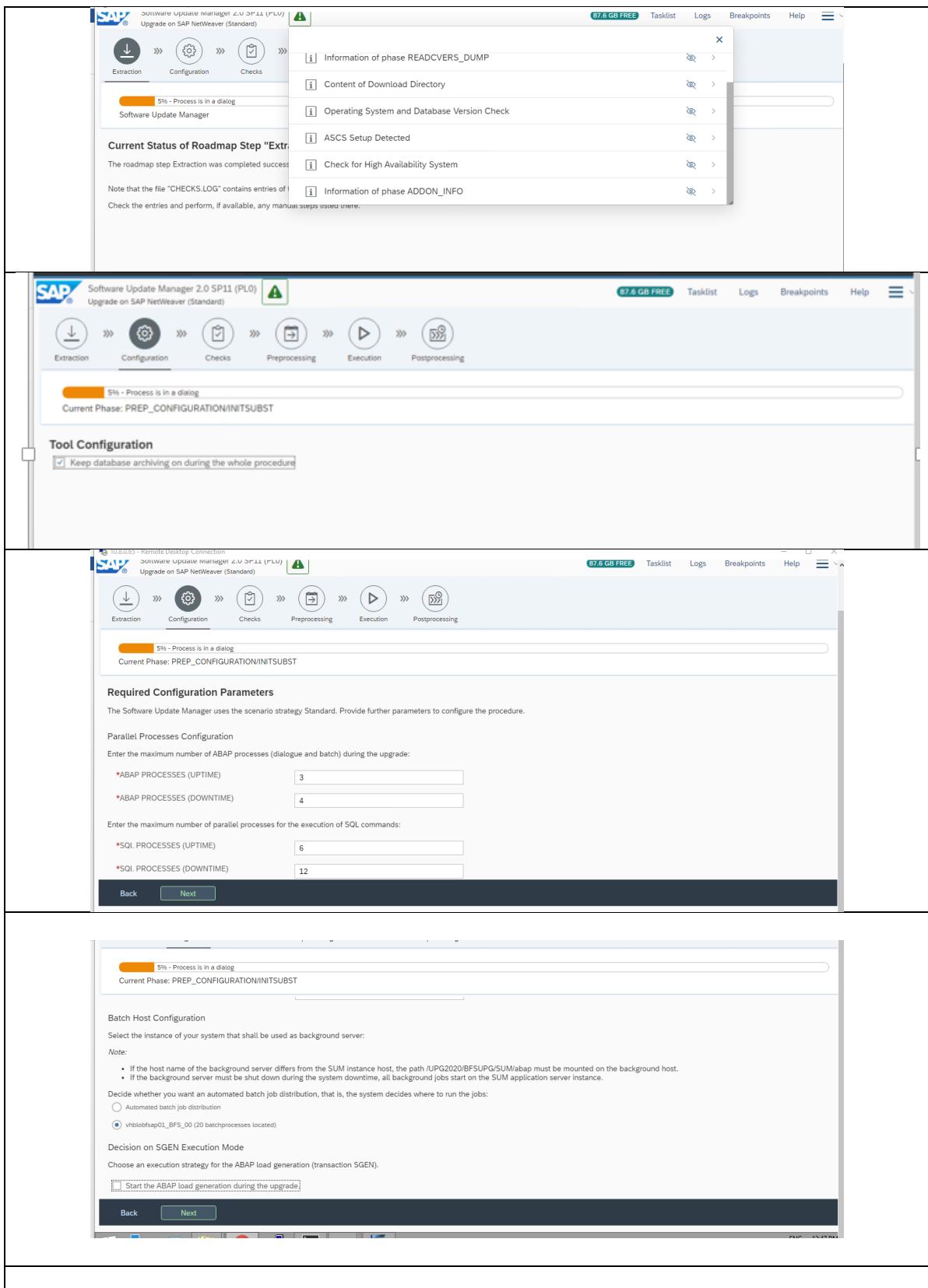
This screenshot shows the initial configuration step. It includes sections for 'Additional Parameters' (Archive Verification, Expert Mode), 'Customer Transport Integration' (with a note about SAP Note 1759080), and a progress bar indicating 0% completion. The current phase is MOD\_SELROADMAP/SELECT\_ROADMAP.

**Screenshot 2: Upgrade on SAP NetWeaver (Standard)**

This screenshot shows the 'Required System Passwords' step. It asks for the password for user "DDIC" in client 000. A password field is provided, and the current phase is PREP\_EXTRACT/SUMASK.

**Screenshot 3: Upgrade on AS ABAP (Standard)**

This screenshot shows the 'SPAM Version Check' step. It indicates that the installed SPAM version 73 is too low and suggests providing at least version 77. A radio button selection is shown for either searching for a newer version or importing version 78. The current phase is PREP\_PRE\_CHECK/SPAMCHK\_INI.



**Software Update Manager 2.0 SP11 (PLO)**  
Upgrade on SAP NetWeaver (Standard)

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Extraction Configuration Checks Preprocessing Execution Postprocessing

5% - Process is in a dialog  
Current Phase: PREP\_CONFIGURATION/SUMASK\_CUSTOMER\_SCR

**Include Transport Request**

Enter the name of the Customer Change Requests that you want to include into the procedure. Otherwise, leave the table empty.

Transport Request	Status
No data	

+

**Software Update Manager 2.0 SP11 (PLO)**  
Upgrade on SAP NetWeaver (Standard)

87.6 GB FREE Tasklist Logs Breakpoints Help

Extraction Configuration Checks Preprocessing Execution Postprocessing

5% - Process is in a dialog  
Current Phase: PREP\_CONFIGURATION/SUMASK\_SPDD\_SPAU

**Transport Requests for Modification Adjustment**

You can use the following transport request(s) to automatically adjust your modifications in your system during the procedure. Select one of the proposed transport requests, add your own transport request, or leave it empty in case you do not want to use a request.

To automatically maintain your modifications in your system during the procedure, the Software Update Manager searches in file /usr/sap/trans/bin/umodauto.lst for transport requests from previous upgrade runs. However, this file is either missing, or no file exists at all that contains a transport for release 752.

**SPDD Transport Request**  
SPDD Transport

**SPAU Transport Request**  
SPAU Transport

If you provide an SPDD/SPAU transport, you can double-check the modifications later on in phase ACT\_UPG even if all modification transports are completed. However, the Software Update Manager stops later on in case of incomplete modification transports.

**Software Update Manager 2.0 SP10 (PL7)**  
Upgrade on AS ABAP (Standard)

Tasklist Logs Breakpoints Help

Extraction Configuration Checks Preprocessing Execution Postprocessing

5% - Process is in a dialog  
Current Phase: PREP\_CONFIGURATION/SAVE\_VAR\_CHK

**Save Variants**

You can enable the Software Update Manager to run a report that saves and restores variants from your system. For more information, see [SAP Note 1696821](#).

Yes, run the report to save and restore the variants

Activate Windows  
Go to System in Control Panel to activate Windows

Back Next

Never Stop Learning, Never Stop Exploring  
Jasbir Khanuja

The image consists of three vertically stacked screenshots of the SAP Software Update Manager 2.0 interface, showing different stages of an upgrade process:

- Screenshot 1: Summary of Language Updates or Installations**  
This screen shows the configuration phase for language updates. It lists three languages: Arabic (AR), English (EN), and German (DE), all marked for update. The status bar indicates "5% - Process is in a dialog".

Iso Name	Name	Location	Comment	Status
AR	Arabic	/UPG2020/BFSUPG/SUM/abap/tmp/lang/AR		Update
EN	English	/UPG2020/BFSUPG/SUM/abap/tmp/lang/EN		Update
DE	German	/UPG2020/BFSUPG/SUM/abap/tmp/lang/DE		Update

- Screenshot 2: Add-On Selection**  
This screen shows the configuration phase for add-ons. It lists one add-on, ST-A/API, selected for target release 01U\_731 with the status "KEEP VERSION". The status bar indicates "10% - Process is in a dialog".

Add-On	Source Release	Target Release	Status	Note
ST-A/API	01U_731	01U_731	KEEP VERSION	69455

- Screenshot 3: Select Support Packages That You Want to Include**  
This screen shows the configuration phase for support packages. It lists five components: SAP\_ABA, SAP\_BASIS, SAP\_BW, SAP\_GWFND, and SAP\_UI, all set to target level 8. The status bar indicates "10% - Process is in a dialog".

Component	Release	Export Level	Minimum Level	Equivalence Level	Maximum Level	Calculated Level	Target Level	Status
SAP_ABA	752	0	8	8	8		8	
SAP_BASIS	752	0	8	8	8		8	
SAP_BW	752	0	8	8	8		8	
SAP_GWFND	752	0	8	8	8		8	
SAP_UI	755	0	2	2	2		2	

The image consists of three vertically stacked screenshots of the SAP Software Update Manager 2.0 SP11 (PL0) interface, specifically for an "Upgrade on SAP NetWeaver (Standard)" process.

**Screenshot 1: Configuration - PREP\_EXTENSION/BIND\_PATCH**

This screen shows a table of ABAP objects and their current values. The table includes columns for SAP UI, ST-A/PI, ST-PI, UIAPIFI70, UIBAS001, UIHR001, UIHR002, UILM001, and UIMDC001. The last column contains input fields where values can be modified.

	SAP UI	ST-A/PI	ST-PI	UIAPIFI70	UIBAS001	UIHR001	UIHR002	UILM001	UIMDC001	
	755	0	2	2		2				2
	01U_731		0	0		0				0
	740	6	15	15		15				15
	UIAPIFI70	800	1	1		1				1
	UIBAS001	600	1	1		1				1
	UIHR001	100	18	18		18				18
	UIHR002	100	12	12		12				12
	UILM001	100	7	7		7				7
	UIMDC001	200	7	7		7				7

**Screenshot 2: Configuration - PREP\_INSTALL/SUBMOD\_PREP\_INSTALL/INITSHD**

This screen asks for a "Shadow Instance Number". It instructs the user to enter an unused instance number for the ABAP shadow system on host vhblobfsap01. A text input field contains the value "02".

**Screenshot 3: Configuration - PREP\_INSTALL/SUBMOD\_PREP\_INSTALL/SHDINST\_CPY**

This screen asks if the user wants to use profiles from a previous SUM run. Two radio button options are shown: "Yes" (unchecked) and "No" (checked). The text below states: "You can use the profiles which were generated for the shadow system in a previous SUM run in an identical environment. Make sure that these profiles are in the subdirectory "/UPG2020/BFSUPG/SUM/abap/save". Do you want to use the profiles located in "/UPG2020/BFSUPG/SUM/abap/save"?"

The image consists of three vertically stacked screenshots of the SAP Software Update Manager 2.0 SP11 (PLO) interface. Each screenshot shows a progress bar at 13% completion.

**Screenshot 1: Configuration Step**

The top screenshot shows the 'Configuration' step. A modal window titled 'Stack Configuration File Overview' is open, displaying a table of software components and their target states:

Component	Release	SP Level
SAP_ABAP	752	0008
SAP_BASIS	752	0008
SAP_BW	752	0008
SAP_GWFND	752	0008
SAP_UI	755	0002
ST_PI	740	0015
UIAPIF170	800	0001

**Screenshot 2: Checks Step - Configuration**

The middle screenshot shows the 'Checks' step. A modal window titled 'Stack Configuration File Overview' is open, displaying a table of software components and their target states:

Component	Release	SP Level
SAP_GWHNU	/S2	U008
SAP_UI	755	0002
ST_PI	740	0015
UIAPIF170	800	0001
UIIAS001	600	0001
UIHR001	100	0018
UIHR002	100	0012
UIILM001	100	0007
UIIMDC001	200	0007
UIMDG001	200	0009
UISAHOP1	600	0001
UITRV001	300	0005

**Screenshot 3: Checks Step - Checks**

The bottom screenshot shows the 'Checks' step. A modal window titled 'Content of Download Directory' is open, listing several files:

- Configuration for Various System Changes
- Stack Configuration File Overview
- Add-On Retrofit Information
- Upgrade System Information
- Instances Detected in the System Landscape
- Content of Download Directory

**Open Actions in Transactions SPDD and SPAU**

Open actions in transactions SPDD and SPAU from former upgrades or support package implementations found:

Number of obsolete and non-adjusted SAP Notes:	3
Number of non-adjusted modified objects:	0

Summary of non-adjusted modified objects:

with Modification Assistant:	0
thereof relevant for SPDD:	0
without Modification Assistant:	0
thereof relevant for SPDD:	0

**SAP ASE Check Result**

**SUM-Phase: PREP\_GENCHECKS/SYB\_CHECKS\_GENERIC**

Result of SAP ASE Check:

Parameter	Current Value	Expected Value	Comment	State
sp_configure 'number of worker processes'	30	>= 40	SAP Note 1680803; change database configuration parameter accordingly.	E
sp_configure 'lock hashtable size'	65536	>= 81920	SAP Note 1680803; change database configuration parameter accordingly.	W

**To fix this:**

Login to Sybase:

```
1> sp_configure 'worker'
2> go
```

Check the parameter value:

```
1> sp_configure 'number of worker processes',40
2> go
```

After executing above, we got error on kernel resource memory which has to be increased as well. It's also DYNAMIC. So no restart needed.

```
1> sp_configure 'kernel resource memory'
2> go
```

```

1> sp_configure 'kernel resource memory'
2> go
Parameter Name      Default     Memory Used   Config Value   Run Value   Unit       Type
-----
kernel resource memory          6396        73572           36262        36262 memory pages(2k) dynamic
(1 row affected)
(return status = 0)

```

1> sp\_configure 'kernel resource memory',36267

2> go

```

1> sp_configure 'kernel resource memory',36267
2> go
Parameter Name      Default     Memory Used   Config Value   Run Value   Unit       Type
-----
kernel resource memory          6396        73582           36267        36267 memory pages(2k) dynamic
(1 row affected)
Configuration option changed. ASE need not be rebooted since the option is dynamic.
Changing the value of 'kernel resource memory' to '36267' increases the amount of memory ASE uses by 10 K.

```

1> sp\_configure 'number of worker processes',40

2> go

```

1> sp_configure 'number of worker processes',40
2> go
Parameter Name      Default     Memory Used   Config Value   Run Value   Unit       Type
-----
number of worker processes          0          45930           40          40 number dynamic
(1 row affected)
Configuration option changed. ASE need not be rebooted since the option is dynamic.
Changing the value of 'number of worker processes' to '40' increases the amount of memory ASE uses by 11200 K.

```

2<sup>nd</sup> Parameter:

1> sp\_configure 'lock hashtable'

2> go

```

1> sp_configure 'lock hashtable'
2> go
Parameter Name      Default     Memory Used   Config Value   Run Value   Unit       Type
-----
lock hashtable size          2048        1585           65536        65536 bytes static
(1 row affected)
(return status = 0)

```

1> sp\_configure 'lock hashtable size',81920

2> go

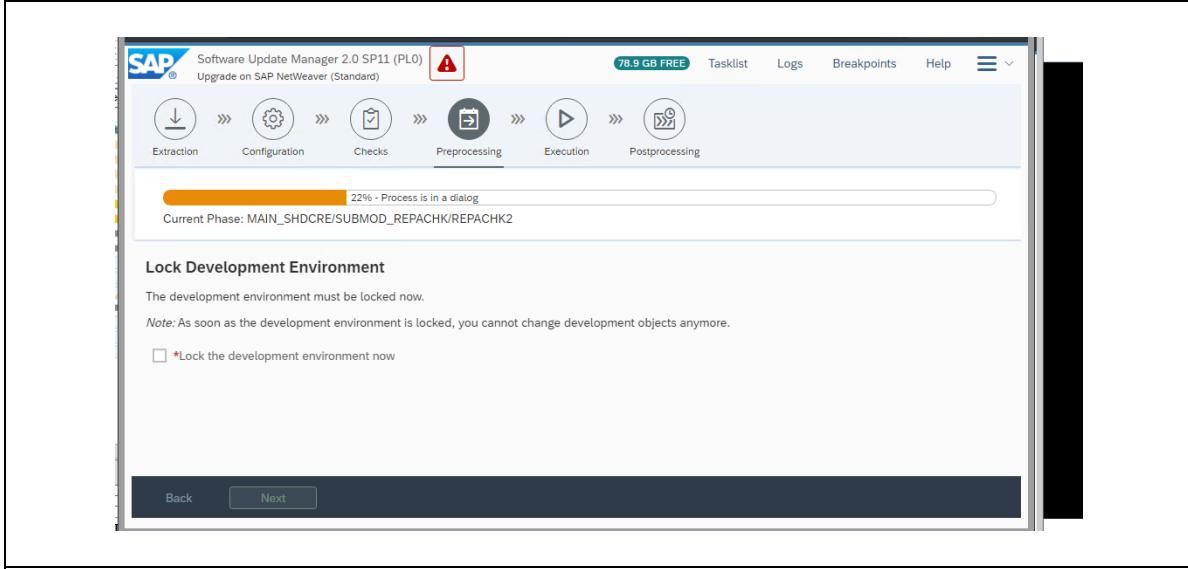
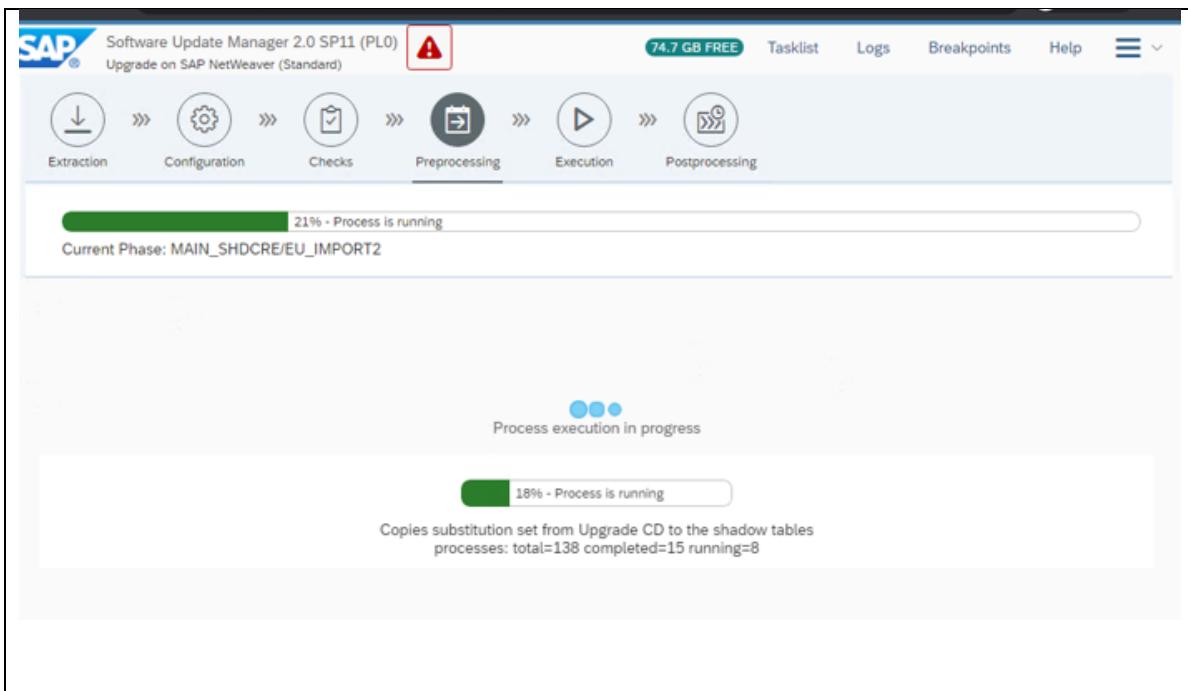
```

1> sp_configure 'lock hashtable size',81920
2> go
Msg 10815, Level 16, State 1:
Server 'BFS', Procedure 'sp_configure', Line 1335:
The lock hashtable size must be a power of 2. You have specified a size of 81920, which is not a power of 2. The next highest power of 2, 131072, will be used instead.
lock hashtable size' has been modified from '81920' to '131072' by the verification routine.
Msg 10815, Level 16, State 1:
Server 'BFS', Procedure 'sp_configure', Line 1335:
The lock hashtable size must be a power of 2. You have specified a size of 81920, which is not a power of 2. The next highest power of 2, 131072, will be used instead.
Parameter Name      Default     Memory Used   Config Value   Run Value   Unit       Type
-----
lock hashtable size          2048        1585           131072        65536 bytes static
(1 row affected)
Configuration option changed. Since the option is static, Adaptive Server must be rebooted in order for the change to take effect.
Changing the value of 'lock hashtable size' to '81920' increases the amount of memory ASE uses by 1870 K.

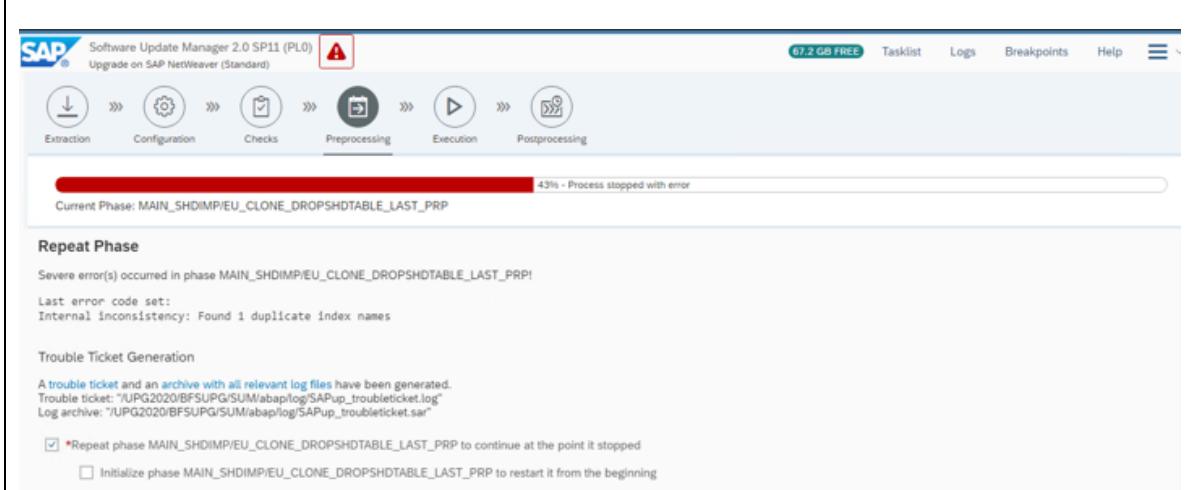
```

This is static parameter. Hence, restart of Sybase DB is needed.

DB Restarted. Moving ahead.



## Lock the development after communication with Customer



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Internal inconsistency: Found 1 duplicate index names

```
4 ETQ276 Executing SQL-script "INDTEST.TQL"
3 ETQ120 20210712135127: PID 25933 execute '~bin/SAPuputool execdb ..var/INDTEST.TQL', output written to '/UPG2020/BFSUPG/SUM/abap/logs/QLSTMSTD.OUT'.
3 ETQ122 20210712135129: PID 25933 exited with status 0 'INDTEST.TQL' (time: 2.0/ 0.3/ 0.1/538MB real/usr/sys/maxmem)
3 ETQ399 Reading selections from 'INDTEST.LOG'.
4 ETQ399 Read 58505 entries for table 'TABINNDBS'.
4 ETQ399 Duplicate entry for index '/UI2/PB_C_TMMLPDPR'.
1EETQ399 Last error code set is: Internal inconsistency: Found 1 duplicate index names
1EETQ204 Upgrade phase "EU_CLONE_DROPSHDTABLE_LAST_PRP" aborted with severe errors ("20210712135130")
```

Duplicate entry for index '/UI2/PB\_C\_TMMLPDPR'!

**To fix:**

```
1> use BFS
2> go
1> setuser 'SAPSR3'
2> go
1> set quoted_identifier on
2> go

1> sp_rename "/UI2/PB_C_TMMLPD./UI2/PB_C_TMMLPDPR", "/UI2/PB_C_TMMLPDPR_NEW", "index"
2> go
Index name has been changed.
(return status = 0)
```

Before:

```
1> sp_helpindex [/UI2/PB_C_TMMLPD]
2> go
Object has the following indexes

index_name      index_keys      index_description          index_max_rows_per_page index_fillfactor index_reservepagegap index_create
ed
-----      index local  plddegree disabled
-----      index_pn_name      index_ptn_seg index_ptn_comp
-----      /UI2/PB_C_TMMLPD~0  MANDT, ID      nonclustered, unique, compressed, contain compressed data      0      0      0 Jul 13 2021
10:35AM Global Index      0      0
-----      /UI2/PB_C_TMMLPDPR  MANDT, PARENTID  nonclustered, compressed, contain compressed data      0      0      0 Jul 13 2021
10:35AM Global Index      0      0

(2 rows affected)
index_ptn_name      index_ptn_seg index_ptn_comp
-----      /UI2/PB_C_TMMLPD~0_999380456 default      inherit from index
-----      /UI2/PB_C_TMMLPDPR_999380456 default      inherit from index

(2 rows affected)
```

After:

```
1> sp_helpindex [/UI2/PB_C_TMMLPD]
2> go
Object has the following indexes

index_name      index_keys      index_description          index_max_rows_per_page index_fillfactor index_reservepagegap index_create
ed
-----      index local  plddegree disabled
-----      index_pn_name      index_ptn_seg index_ptn_comp
-----      /UI2/PB_C_TMMLPD~0  MANDT, ID      nonclustered, unique, compressed, contain compressed data
2021 10:35AM Global Index      0      0
-----      /UI2/PB_C_TMMLPDPR NEW  MANDT, PARENTID  nonclustered, compressed, contain compressed data
2021 10:35AM Global Index      0      0

(2 rows affected)
index_ptn_name      index_ptn_seg index_ptn_comp
-----      /UI2/PB_C_TMMLPD~0_999380456 default      inherit from index
-----      /UI2/PB_C_TMMLPDPR_999380456 default      inherit from index

(2 rows affected)
(return status = 0)
1>
```

SAP Fiori Front-end Server 2020 for SAP S/4HANA

Software Update Manager 2.0 SP11 (PL0)  
Upgrade on SAP NetWeaver (Standard)

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Extraction Configuration Checks Preprocessing Execution Postprocessing

59% - Process is in a dialog  
Current Phase: MAIN\_DTTRANS/DOWNCONF\_DTTRANS

**Preparations for Downtime**

The procedure has reached the end of the "Preprocessing" roadmap step.

Carry out now the following actions:

- Stop all production activities
- Ensure that no scheduled batch jobs can start anymore, and await regular completion of currently running jobs
- Make sure that all users have logged out
- Isolate the primary application server instance as described in the SUM guide, section "Isolating the Primary Application Server Instance"

When you confirm below "Actions completed", the system will be stopped and you will be prompted to perform a complete backup.

\*Actions completed

Back Next

SUM Backup: Taken Back up of SUM.

DB Backup:

BTCTRNS1:

Transport: Move Jobs with Status "Rescheduled due to Upgrade"

Transport: Move Jobs with Status "Rescheduled due to Upgrade"

Jobs were suspended for upgrade

Started Downtime:

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Extraction Configuration Checks Preprocessing Execution Postprocessing

59% - Process is in a dialog  
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- Make sure that all users have logged out
- Isolate the primary application server instance as described in the SUM guide, section "Isolating the Primary Application Server Instance"

When you confirm below "Actions completed", the system will be stopped and you will be prompted to perform a complete backup.

\*Actions completed

Back Next

Both are okay:

```
1> sp_configure 'worker'
2> go
Msg 17411, Level 16, State 1:
Server 'BFS1', Procedure 'sp_configure', Line 410:
Configuration option is not unique.

Parameter Name          Default      Memory Used      Config Value      Run Value      Unit      Type
-----                  -----      -----          -----          -----      -----
memory per worker process      1024          236          1024          1024 bytes    dynamic
number of worker processes      0            45925          40           40 number    dynamic

(1 row affected)
(return status = 1)
l> ■
```

```
1> sp_configure 'lock hashtable'
2> go
Parameter Name          Default      Memory Used      Config Value      Run Value      Unit      Type
-----                  -----      -----          -----          -----      -----
lock hashtable size      2048          3121          131072          131072 bytes    static

(1 row affected)
(return status = 0)
l> ■
```

**Software Update Manager 2.0 SP11 (PL0)** Upgrade on SAP NetWeaver (Standard)

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Extraction Configuration Checks Preprocessing Execution Postprocessing

88% - Process is in a dialog Current Phase: MAIN\_UPTRANS/UPCONF

**End of SUM Technical Downtime**

The SUM technical downtime has finished. The system is unlocked and available for postprocessing activities.

Check if you must perform manual start or installation activities for additional application servers.

Back Next

---

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Extraction Configuration Checks

88% - Process is in a dialog Software Update Manager

**Current Status of Roadmap Step "Execution"**

The roadmap step Execution was completed successfully.

Note that the file "CHECKS.LOG" contains entries of:

- error
- info

Previous Next

Check the entries and perform, if available, any manual steps listed there. Continue as normal afterwards.

Back Next

**Both are okay. Proceed.**

---

**Software Update Manager 2.0 SP11 (PL0)** Upgrade on SAP NetWeaver (Standard)

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Extraction Configuration Checks Preprocessing Execution Postprocessing

91% - Process is in a dialog Current Phase: MAIN\_POSTPROC/SUBMOD\_SPAU\_INFO/SPAUINFO

**Adjustment of Modified Repository Objects**

No SPAU transport imported

7 development objects that you modified previously in your system BFS have been imported during the update procedure.

Adjust your repository using transaction SPAU to keep your modifications. If you do not want to keep them, reset the affected objects to "SAP original" with transaction SPAU. Use transactions SPAU and SPAU\_ENH to check for any open adjustments.

\*Continue

Back Next

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SAP Software Update Manager 2.0 SP11 (PLO)  
Upgrade on SAP NetWeaver (Standard)

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Extraction Configuration Checks Preprocessing Execution Postprocessing

91% - Process is in a dialog  
Current Phase: MAIN\_POSTPROC/SUBMOD\_SPAU\_INFO/SPAUNINFO

**Adjustment of Modified Repository Objects**

No SPAU transport imported  
7 development objects that you modified previously in your system BFS have been imported during the update procedure.

Adjust your repository using transaction SPAU to keep your modifications. If you do not want to keep them, reset the affected objects to "SAP original" with transaction SPAU. Use transactions SPAU and SPAU\_ENH to check for any open adjustments.

\*Continue

Back Next

SAP Software Update Manager 2.0 SP11 (PLO)  
Upgrade on SAP NetWeaver (Standard)

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Extraction Configuration Checks Preprocessing Execution Postprocessing

95% - Process is in a dialog  
Current Phase: MAIN\_POSTPROC/REQ\_UP\_FINAL

**Start of Cleanup Processing**

When you choose "Next", the Software Update Manager starts performing cleanup activities in the background. In the meantime, you can carry out the necessary manual post-processing activities.

Note that imports of customer transports and additional software installations are still possible until phase REQ\_FINISH\_IMPORT, in which you must confirm that such imports are no longer running or being started, or after you reached the EXIT-phase. Imports of this type are then only possible again after the upgrade.

Back Next

SAP Software Update Manager 2.0 SP11 (PLO)  
Upgrade on SAP NetWeaver (Standard)

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Extraction Configuration Checks Preprocessing Execution Postprocessing

99% - Process is in a dialog  
Current Phase: MAIN\_POSTCLEAN/REQ\_FINISH\_IMPORT

**Confirmation Required for Imports**

Before you continue, make sure that all imports of customer transports and additional software installations are completed, and that no further imports are started until the end of the procedure. Imports are only possible again after the upgrade.

I confirm that no more imports are running.

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**SAP Software Update Manager 2.0 SP11 (PL0)** Upgrade on SAP NetWeaver (Standard) **32.8 GB FREE** Tasklist Logs Breakpoints Help

Extraction Configuration Checks Preprocessing Execution Postprocessing

100% - Process has finished  
Software Update Manager

**Procedure Completed**

\*\*\*\*\*  
\*\*\* YOUR SUM PROCEDURE IS COMPLETE \*\*\*  
\*\*\*\*\*

Note: You have to perform follow-up activities. For more information, see the SUM Guide.

Further Actions:

Back Next

**Installed Software**

Installed Software Component Versions Installed Product Versions

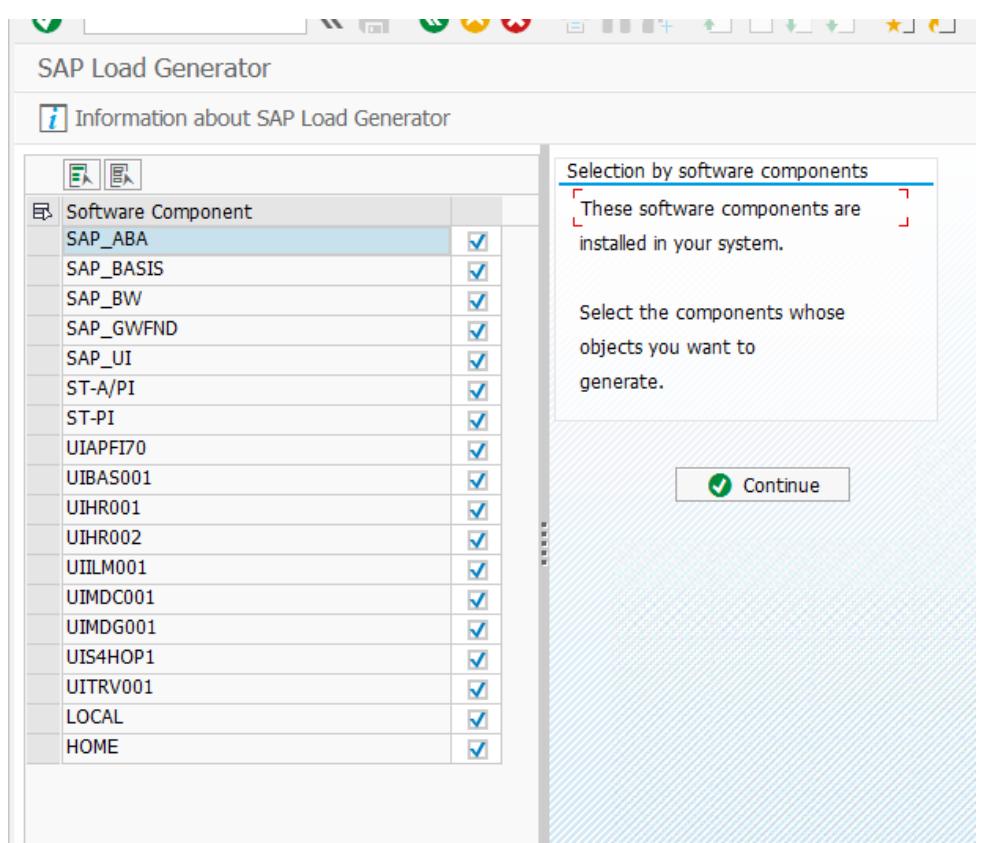
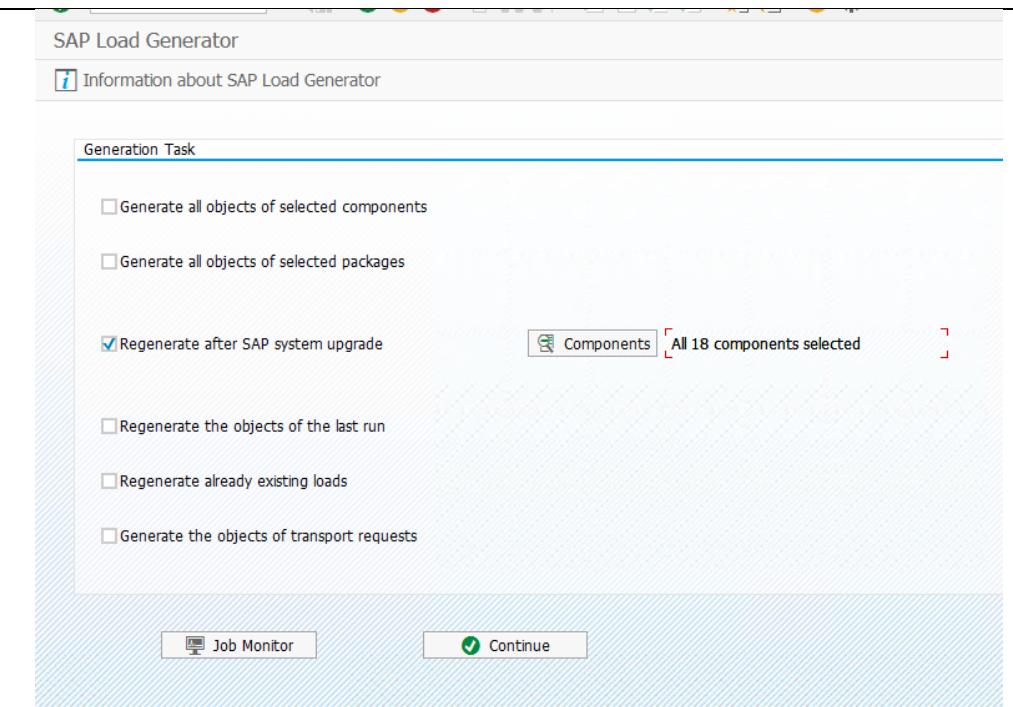
Product	Release	SP Stack	Vendor	Short Description of Product Version
NW AS ABAP	7.52	08 (04/2021)	sap.com	NW AS ABAP 7.52
SAP Fiori for S/4HANA	2020	01 (02/2021)	sap.com	SAP Fiori for SAP S/4HANA 2020
SAP Fiori FES for S/4HANA	2020	SP01 (02/2021)	sap.com	SAP Fiori FES 2020 for S/4HANA

**Installed Software**

Installed Software Component Versions Installed Product Versions

Component	Release	SP-Level	Support Package	Short Description of Component
SAP_BASIS	752	0008	SAPK-75208INSAPBASIS	SAP Basis Component
SAP_ABA	752	0008	SAPK-75208INSAPABA	Cross-Application Component
SAP_GWFND	752	0008	SAPK-75208INSAPGWFND	SAP Gateway Foundation
SAP_UI	755	0002	SAPK-75502INSAPUI	SAP_UI 755 Update: Meta-Commandfile
ST-PI	740	0015	SAPK-74015INSTPI	SAP Solution Tools Plug-In
SAP_BW	752	0008	SAPK-75208INSAPBW	SAP Business Warehouse
UIBAS001	600	0001	SAPK-60001INUIBAS001	UI for Basis Applications 6.0
UIAPFI70	800	0001	SAPK-80001INUIAPFI70	UI SFIN
UIHR001	100	0018	SAPK-10018INUIHR001	UI for ERP Human Capital Management
UIHR002	100	0012	SAPK-10012INUIHR002	UI for ERP Human Capital Management 100
UIILM001	100	0007	SAPK-10007INUIILM001	UI for ILM
UIIMDC001	200	0007	SAPK-20007INUIIMDC001	UI for MDG Consolidation and Mass Process
UIMDG001	200	0009	SAPK-20009INUIMDG001	UI for MDG
UIS4HOP1	600	0001	SAPK-60001INUIS4HOP1	UI for S/4HANA On Premise
UITRV001	300	0005	SAPK-30005INUITRV001	UI for Travel 300: Add-On Installation
ST-A/PI	01U_731	0000	-	Servicetools for SAP Basis 731 and higher

**SGEN:**



SAP Load Generator

Information about SAP Load Generator

Status	Application Server	Hardw...	OS type	Multiple selection
<span style="color: green;">■</span>	vhblobfsap01_BFS_00	390	Linux	<input checked="" type="checkbox"/> Deselect all Linux

Server Selection for Parallel Generation  
You can select/deselect servers independently, or select/deselect all servers of one machine type.

Continue

SAP Load Generator - Job Monitor

i Job Monitor   ↻ Refresh   ▲ Job Overview

Schedule Load Generator in Background Mode

<span style="color: green;">■</span>	<span style="color: red;">✖</span>	<span style="color: orange;">🕒</span>	Job no.	Hardware	Status	Start Date	StartTime	In Total	Runtime
			390		Not yet started	16.07.2021	13:55:19	126.926	00:00:00

✓ Generation set contains 126926 object(s)

SAP Load Generator - Job Monitor

i Job Monitor   ↻ Refresh   ▲ Job Overview

Schedule Load Generator in Background Mode

<span style="color: green;">■</span>	<span style="color: red;">✖</span>	<span style="color: orange;">🕒</span>	Job no.	Hardware	Status	Start Date	StartTime	In Total	Runtime
			13554...	390	Actv.	16.07.2021	13:55:44	126.926	00:00:00

Difference of two components:

1) UIX01CA1 :

2221151 - Release Information note for SAP Fiori My Inbox 2.0

Important Maintenance Information: The UIX01CA1 200 add-on component ( UI for Cross Applications 200) delivering the My Inbox Fiori app is in mainstream maintenance until 31.12.2022. The add-on component has been retrofitted in the UIBAS001 component (UI for Basis Applications ), starting with UIBAS001 400. Please consider upgrading the version of the SAP Fiori Front-end Server (SAP Fiori front-end Server, Add-on to AS ABAP, Basis for SAP Fiori Apps) to minimum SAP Fiori front-end server 5.0 or higher

2676990 - Release Information note for SAP Fiori My Inbox

Please note: New features for My Inbox application will from now on be delivered with SAP UI FOR BASIS APPLICATIONS component only. If you are a SAP Business Suite customer and you would like to adopt newly added functionalities for My Inbox application, you need to upgrade the version of your SAP Fiori Front-End Server to minimum SAP Front-End Server 5.0.

2) SAPUIFT:

2486528 - Discontinuation of ABAP add-on SAPUIFT (SAP Fiori App Implementation Foundation)

<https://blogs.sap.com/2017/12/06/sap-fiori-front-end-server-in-a-nutshell/>

The second additional component is **SAPUIFT 100** (only one version available, SP01 max.). This component is deprecated and was removed in FES 5.0.

## References:

[SAP Note: 2935725 - General Information: Installation details of SAP Fiori front-end server 2020 for SAP S/4HANA](#)

[SAP Note: 2881803 - FAQ: S/4HANA Fiori Best Practices - Collective Note](#)

[SAP Note: 2217489 - Maintenance and Update Strategy for SAP Fiori Front-End Server](#)

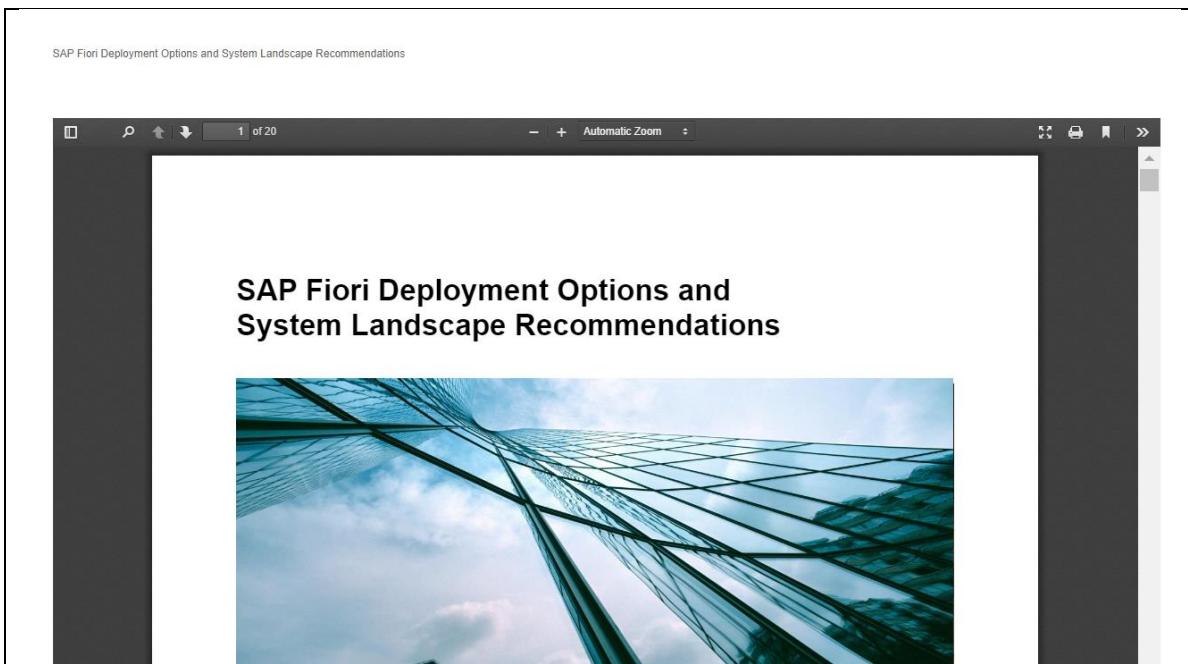
[SAP Note: 2935911 - SAP FIORI FOR SAP S/4HANA 2020: Release Information Note](#)

[SAP Note: 2590653 - SAP Fiori front-end server deployment for SAP S/4HANA](#)

[Browser Support PAM for SAP S/4HANA 2020 & SAP S/4HANA FOUNDATION 2020](#)

[SAP Note: 2919182 - SAP Fiori front-end server 2020 for SAP S/4HANA](#)

[Landscape Deployment Recommendation for SAP Fiori front-end server.](#)



[SAP Note: 2947824 - Composite SAP note: Rapid Activation for SAP Fiori in SAP S/4HANA 2020](#)  
[How and why to upgrade SAP Fiori for your SAP S/4HANA solution](#)  
[SAP Fiori deployment options and SAP Fiori front-end server strategy – UPDATE 2020](#)

<https://sapui5.hana.ondemand.com/versionoverview.html>

#### SAPUI5 Versions Maintenance Status

The updated SAPUI5 maintenance strategy for SAP Business Technology Platform is available in [this document](#).

Version	Maintenance Status	End of Maintenance	End of Cloud Provisioning	SAP_UI version*	Front-end Server*
1.92 (2107)	Maintenance			Cloud only	Cloud only
1.90 (2105)	Maintenance	Q1/2022	Q1/2023	7.56	
1.87 (2102)	Maintenance	Q3/2021	Q3/2022	Cloud only	Cloud only
1.84 (2011)	Maintenance	Long-term Maintenance, Q4/2023	Q4/2024	7.55	<a href="#">SAP Fiori FES 2020 FOR S/4HANA (SAP Note 2919182)</a>
1.71 (1910)	Maintenance	Long-term Maintenance, Q4/2027	Q4/2028	7.54	<a href="#">SAP Fiori FES 6.0 (SAP Note 2775163)</a>
1.60 (1811b)	Maintenance	Long-Term Maintenance, Q4/2021	Q4/2022	7.53	<a href="#">SAP Fiori FES 5.0 (SAP Note 2618605)</a>
1.38	Maintenance	Long-Term Maintenance, Q4/2027	Q4/2028	Only via UI add-on 2.0	n/a (see SAP note 2210123 and SAP note 2972680)
1.91 (2106)	Out of maintenance		Q3/2022	Cloud only	Cloud only
1.89 (2104)	Out of maintenance		Q2/2022	Cloud only	Cloud only
1.88 (2103)	Out of maintenance		Q2/2022	Cloud only	Cloud only

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#### Available SAPUI5 Versions on SAP Business Technology Platform

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