Note: 000067

Overview

Number	**000067**
Description	**BCS 3.0 Additional Installation / Upgrade Information**
Version	**54 from 12.10.2026**
Status	**Released to Customer**
Language	**EN**
Responsible	**John Mantle**
Product	**BCS**
Category	**Technical Installation**

Symptom

Note: The term "30x" is used to refer to all levels of BCS 3.0 - currently:

- 30A (ECC 600)
- 30B (S/4HANA)

You install the BCS component containing the 30x BCP and BCG products on SAP ECC 6.0 or S/4HANA. You would like to know if any changes have been made to the standard installation guide, or if any further steps are necessary in addition to the standard guide.

Cause

1. Additional steps may be recommended for installs or upgrades of the specific versions of QuantityWare products.

2. QuantityWare is constantly developing its products and responding to customer needs. All non-customer specific functional and customising extensions will be included in CSPs (Component Support Packages), however there are periods between CSP releases when customers should implement QuantityWare Notes into their systems to ensure they have access to all functionality and resolve specific issues.

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Solution

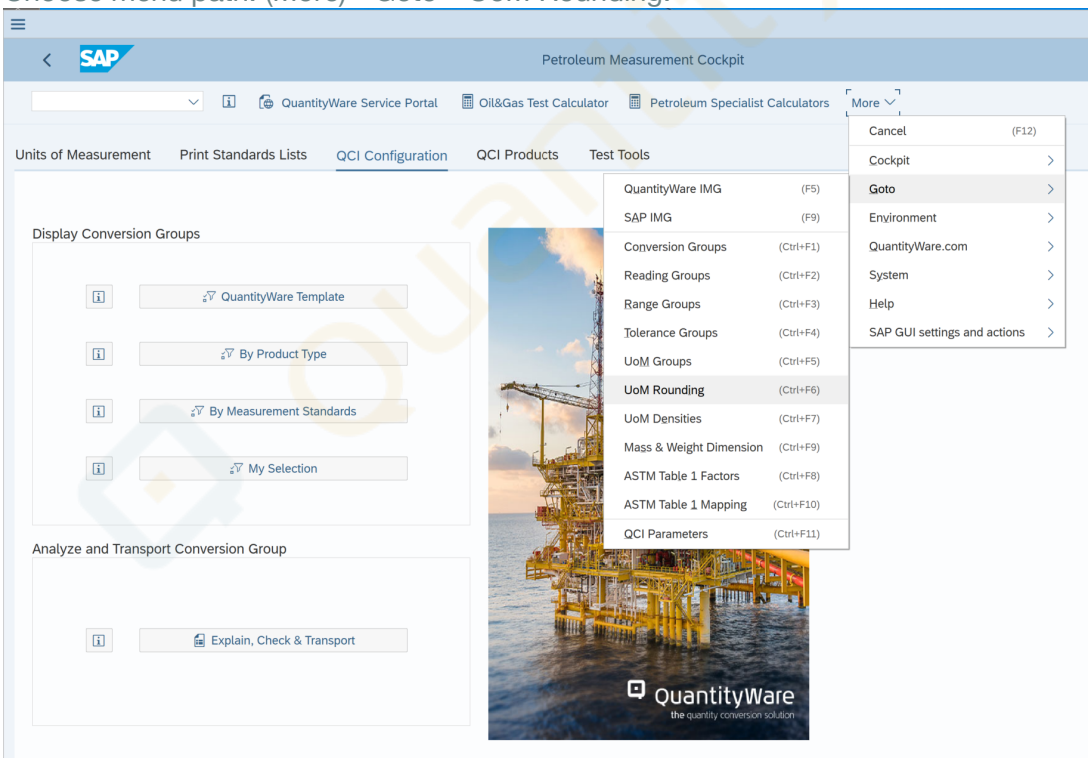
Customising extension issues:

NOTE:
This action may be required only if you are UPGRADING from BCP10A, BCP10B or an installation where customising entries have been distributed into QuantityWare customizing tables in client 000.

With BC set /QTYW/BCP_30x or /QTYW/BCG_30x, QuantityWare delivers many new entries that are required for the installation test. Additional entries may lead to calculation deviations between expected and actual results and thus may show up as an error in various test reports.

After you have created the template client 045, and before you activate the QuantityWare BC set /QTYW/BCP_30x or /QTYW/BCG_30x, you should perform the following steps (in client 045):

1. Start the Petroleum Measurement Cockpit(transaction /qtyw/cockpit) or the Gas Measurement Cockpit (transaction /qtyw/cockpit_gas).
   Choose menu path: (More) - Goto – UoM Rounding:



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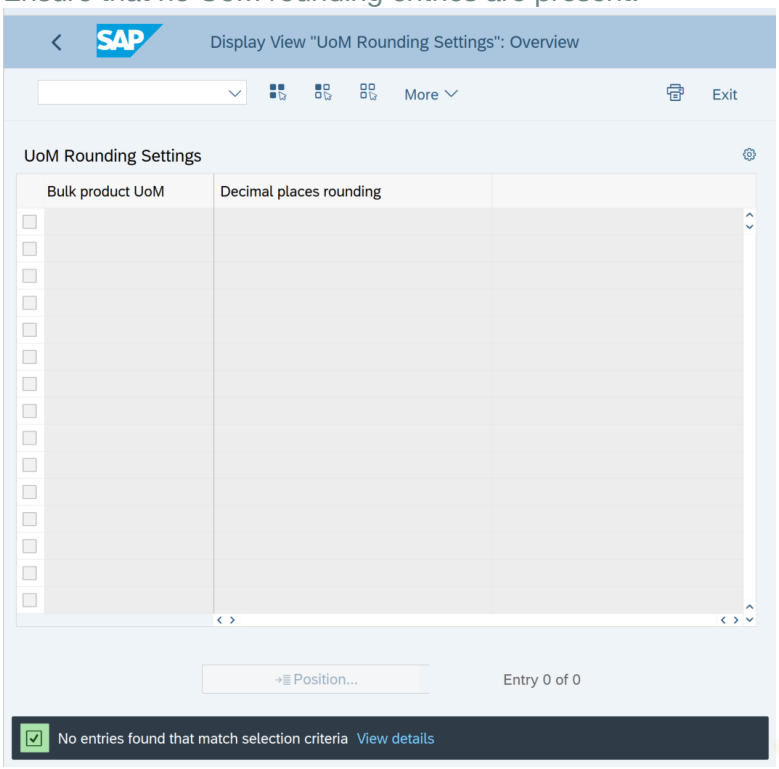
2. Ensure that no UoM rounding entries are present:



If this is the case, you may continue with the activation of BC set /QTYW/BCP_30x.

If entries are present, you should delete all entries:

- Choose “Display – Change (CTRL + F1)” and mark all entries.
- Delete all entries.
- Save your action using a temporary customizing transport.

SAINT Import:

1. Stop on error: "The pre-requisites are not fulfilled":

You MUST have a valid maintenance certificate installed in your system before you can import ANY package via SAINT or SPAM functionality.

2. "Signature File Missing":

See SAP Note 2645739 and this QuantityWare FAQ.

3. BCS 30A only - Stop on Queue Calculation error: SAP_FIN:

We have no dependencies to the SAP_FIN or SAP_APPL components, however SAP forces this (for our delivery, unnecessary) check.

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We have provided a work-around for our customers in the form of an “ACP” – “Attribute Change Package”, available in the “Installation / Upgrade Packages” area of our service portals’ “DataLounge”.

The archive QW_BCS_30A_600_IN-ACP03.SAR contains the appropriate ACP file QOI0020247836_0000067.PAT which MUST be present in the EPS/in directory before calling SAINT to "Load Packages".

If SAINT has uploaded the file successfully, you will see the entry e.g. "QTYW======30A" in the list of uploaded packages. This package modifies the requirements of the BCS 3.0 installation package e.g. SAPK-30A00INQTYW and avoids an error in the "Check Requirements" phase.

The Archive name and PAT file may be updated in future, resulting in higher version numbers.

Only the most actual ACP file will be available in the “DataLounge”.

4. Installation file sizes:

Sometime, issues can occur when archives are extracted leading to incorrect file sizes. Based upon Windows operating systems, the QuantityWare packages should have the following sizes:

File	Size
QW_BCS_30A_600_IN.SAR	37.152.748 bytes (DIR_TRANS)
QW_BCS_30A_600_UP.SAR	37.156.738 bytes (DIR_TRANS)
QOI0020247836_0000062.PAT	40.708.204 bytes (DIR_EPS_ROOT\in)
QOI0020247836_0000066.PAT	40.711.460 bytes (DIR_EPS_ROOT\in)
QW_BCS_30B_1610_IN.SAR	37.984.438 bytes (DIR_TRANS)
QW_BCS_30B_1610_UP.SAR	37.989.767 bytes (DIR_TRANS)
RS40090205598_0000006.PAT	41.658.387 bytes (DIR_EPS_ROOT\in)
RS40090205598_0000007.PAT	41.661.975 bytes (DIR_EPS_ROOT\in)

Note: Validate the SHA-512 checksums of all files downloaded from the QuantityWare service portal before applying them to your systems!

The output of a sapcar –tvf command on the file (e.g. QW_BCS_30A_600_IN.SAR) should look like this:

```
T:\trans>sapcar64 -tvf QW_BCS_30A_600_IN.SAR
SAPCAR: processing archive QW_BCS_30A_600_IN.SAR (version 2.01)
-rw-------    40708204    10 Aug 2016 11:55 EPS/in/QOI0020247836_0000062.PAT
```

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Additional CSPs:

The following CSPs have been released or are planned for release on the dates below:

Solution	Package	Release Date
BCS 30A	CSP 001	31 March 2017
BCS 30A	CSP 002	20 Sept. 2021
BCS 30A	CSP 003	18 Dec. 2023
BCS 30A	CSP 004	26 Nov. 2025
BCS 30A	CSP 005	Q4 2028
BCS 30B	CSP 001	20 Sept. 2021
BCS 30B	CSP 002	18 Dec. 2023
BCS 30B	CSP 003	26 Nov. 2025
BCS 30B	CSP 004	Q4 2028

NOTE: Include ALL available CSP's when installing or upgrading QuantityWare solutions.

BC Set Activation Errors:

SAP has resolved the inconsistencies in the SAP functionality regarding the activation of BC-Sets containing “FLTP” and “QUAN” data types, thus the workaround is no-longer necessary - SEE FOLLOWING COMMENT:

>>>> NEW: APRIL 2025 >>>>>>>>>>>>>>>>>>>>
We have received a ticket from a customer who has had the following error when trying to activate the BC-Set in the latest version of S/4HANA 2023, with the decimal separator in their user profile set to point (".").

Category ABAP programming error
Runtime Errors DBSQL_SQL_ERROR
Except. CX_SY_OPEN_SQL_DB
ABAP: Program CL_SCPR_DB_TABLE_CONTENT======CP
Application Component BC-CUS-TOL-BCD
Date and Time 04-25-2025 16:21:15 (CST)

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```
---------------------------------------------------------------------------------------------------
|Short Text
|  SQL error "SQL code: 314" occurred while accessing table "/QTYW/UOMREF".
---------------------------------------------------------------------------------------------------
---------------------------------------------------------------------------------------------------
|What happened?
|  Database error text: "SQL message: numeric overflow: Failed in "STD_FACTOR"
|   column with the value 1000000000000.000000000000"
---------------------------------------------------------------------------------------------------
```

With this workaround, the user changed the decimal separator to comma (",")

> *SAP GUI - System -> User Profile -> User Data -> Defaults ->*
> *Decimal Notation -> (set to) 1.234.567,89 (**then log off and log back on**)*

...and was able to successfully activate the BC-Set.

After BC-Set activation, reset your "Decimal Notation" to your standard value (log off and log back on) - this setting is ONLY required for the BC-Set activation.

This is similar to the error encountered pre-2019. If you encounter this error, try the above workaround to activate the BC-Set and then open a ticket with SAP as the logic within the BC-Set creation and transaction is the responsibility of SAP.
On S/4HANA versions 2020 - 2023 (initial release) the user profile decimal separator did not affect the BC-Set activation.
As SAP performs maintenance to earlier releases of S/4HANA, this code change (SAP BASIS) may also be migrated to the latest maintenance versions of earlier releases, thus this error may also appear in such systems (SAPK-755BFINSAPBASIS works correctly, SAPK-758BFINSAPBASIS appears not to).
>>

ORACLE Databases: If the person who activates the BC-Set does not use the defined decimal notation setting (remember to logout and log on again to “activate” the setting), hard errors can occur during the BC-Set activation such as "ORA-01438: value larger than specified allowed for this column". In this case, in the correct client, select the correct decimal notation settings, log off, log back on to the client and restart the BC-Set activation process. It should complete without error.

S/4HANA Compatibility:

Principally, we will seek to support the usage of our BCS package on every S/4HANA release for which SAP releases SAP Oil & Gas. The first S/4HANA release to do so was 1610.

The BCS 3.0 solution with the release version **30B** has been certified for use with SAP Oil & Gas as detailed in QW Note 000086 (section "Release Lifecycle").

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After the initial technical SAINT installation on an S/4 platform, or SUM upgrade to S/4 is complete, you **MUST** apply **SAP Note 2327999** (https://launchpad.support.sap.com/#/notes/2327999) to ensure that the necessary QuantityWare Data Dictionary is available in your system (i.e. before performing the “Post Installation / Upgrade Actions” section of the installation guide.

The installation archive "QW_BCS_30B_1610_<UP/IN>.SAR" is valid for **ALL** supported S/4 HANA releases.

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Additional Notes:

Apply only notes that are listed as being valid for your HIGHEST, applied CSP.
For example, if you have 30A CSP001 installed, apply notes marked with "30A 02" to your system.

All CSP level-dependent notes are included in the next highest CSP.
For example, all notes marked with "30B 01" are included in 30B CSP001

These Notes should be imported in the ascending order listed below to ensure access to all functionality and remove known issues.
If Notes are relevant for multiple CSP levels, they are defined as such below (e.g. "ALL").

CSP level	Note	Description
ALL	Note 000030	Technical customizing table entries – table OIB07
ALL	Note 000056	BCS CSP03 Authorizations
		30A (ECC) Notes
30A 00	Note 000069	C to ABAP Migration Tool – Enhancements & Corrections
30A 00	Note 000070	ISO 6578 -LNG: intermediate parameter rounding – additional option for molar volumes Vi rounding
		"00" Notes above are included in 30A CSP001
30A 01	Note 000071	DB lock on table /QTYW/ISO91_SL
30A 01	Note 000074	Support of ASTM D1555(M)-2016
30A 01	Note 000075	SPAU_ENH forces usage of /QTYW/ Repair Key
30A 01	Note 000078	AGA Report No. 7 - Atmospheric Pressure Calculation
30A 01	Note 000077	BCS 30x Collective Note - Corrections & Enhancements
30A 01	Note 000079	Business Document Analysis - Automatically Generated Lines
30A 01	Note 000076	ISO 6578:2017 Compliance Enhancements
30A 01	Note 000080	Support of ASTM D1550-18 Butadiene - ASTM D2962 Compliance Confirmation
30A 01	Note 000081	SAP Note 397003 Integration
30A 01	Note 000082	Business Document Analysis - Initial UoM MSEGO2 Lines
30A 01	Note 000083	PMC & GMC Adjustments - Long Material Number in S/4HANA

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30A 01	Note 000084	PMC & GMC Enhancements - Installation Test & SAP IMG
30A 01	Note 000088	BCS Test Scenario Tool Corrections
30A 01	Note 000089	BCS Usage Key Installation Handling
30A 01	Note 000090	ASTM D1250-19 Support
30A 01	Note 000091	Scenarios: Calculate expected results fails
30A 01	Note 000097	BCS Cockpit Authorisations and Considerations
30A 01	Note 000096	MS-19 Emulsified Asphalt
		"01" Notes above are included in 30A CSP002
30A 02	Note 00104	PMC - Conversion group model check - incorrect error log
30A 02	Note 00105	SAP QCI TAS - Density UoM Tolerance/Defaulting
30A 02	Note 00103	BCS 30x Collective Note - Corrections & Enhancements II
30A 02	Note 00102	Anhydrous Ammonia Quantity Conversions
30A 02	Note 00107	Default Test Density UoM for Range Checks & IDOC processing
30A 02	Note 00109	MQCI Dialog box - document display shows incorrect UoM
30A 02	Note 00108	Advanced Development - ABNT NBR 5992 (2016)
30A 02	Note 00100	Advanced Development - High Pressure Hydrogen Quantity Conversions
30A 02	Note 00110	Material overview lists shows incorrect conversion group status for hydrogen
30A 02	Note 00114	Advanced Development - Brazilian Standard RESOLUÇÃO ANP Nº 894 2022 - RESOLUÇÃO CNP Nº 6 - 70 : Tables I & II
		"02" Notes above are included in 30A CSP003
30A 03	Note 00118	Runtime error CONVT_NO_NUMBER in report /QTYW/CP_QW_BCSET_UOM
30A 03	Note 00116	BCS 30x Collective Note - Corrections & Industrial Gases - Enhancements
30A 03	Note 00119	Test Scenario & Installation Test - Usability
30A 03	Note 00122	DIN 51650 Rounding Issue VOL to VOL
30A 03	Note 00123	SYS data enrichment in Installation Test Log
30A 03	Note 00124	ABNT NBR 5992 - 2016 Range Extensions
		"03" Notes above are included in 30A CSP004
30A 04	Note 00126	ISO 6578:2025 - Compliance Enhancements

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30A 04	Note 00127	Error tolerance on QW Installation Test
30A 04	Note 00128	Special Applications - UoM Defaulting
		"04" Notes above are included in 30A CSP005

		30B (S/4HANA) Notes
30B 00	Note 000071	DB lock on table /QTYW/ISO91_SL
30B 00	Note 000074	Support of ASTM D1555(M)-2016
30B 00	Note 000075	SPAU_ENH forces usage of /QTYW/ Repair Key
30B 00	Note 000078	AGA Report No. 7 - Atmospheric Pressure Calculation
30B 00	Note 000077	CS 30x Collective Note - Corrections & Enhancements
30B 00	Note 000079	Business Document Analysis - Automatically Generated Lines
30B 00	Note 000076	ISO 6578:2017 Compliance Enhancements
30B 00	Note 000080	Support of ASTM D1550-18 Butadiene - ASTM D2962 Compliance Confirmation
30B 00	Note 000081	SAP Note 397003 Integration
30B 00	Note 000082	Business Document Analysis - Initial UoM MSEGO2 Lines
30B 00	Note 000083	PMC & GMC Adjustments - Long Material Number in S/4HANA
30B 00	Note 000084	PMC & GMC Enhancements - Installation Test & SAP IMG
30B 00	Note 000088	BCS Test Scenario Tool Corrections
30B 00	Note 000089	BCS Usage Key Installation Handling
30B 00	Note 000090	ASTM D1250-19 Support
30B 00	Note 000091	Scenarios: Calculate expected results fails
30B 00	Note 000094	Belize Theme:QuantityWare pictures appear distorted
30B 00	Note 000097	BCS Cockpit Authorisations and Considerations
30B 00	Note 000096	MS-19 Emulsified Asphalt
		"00" Notes above are included in 30B CSP001
30B 01	Note 00104	PMC - Conversion group model check - incorrect error log
30B 01	Note 00105	SAP QCI TAS - Density UoM Tolerance/Defaulting

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30B 01	Note 00103	BCS 30x Collective Note - Corrections & Enhancements II
30B 01	Note 00102	Anhydrous Ammonia Quantity Conversions
30B 01	Note 00107	Default Test Density UoM for Range Checks & IDOC processing
30B 01	Note 00109	MQCI Dialog box - document display shows incorrect UoM
30B 01	Note 00108	Advanced Development - ABNT NBR 5992 (2016)
30B 01	Note 00100	Advanced Development - High Pressure Hydrogen Quantity Conversions
30B 01	Note 00110	Material overview lists shows incorrect conversion group status for hydrogen
30B 01	Note 00114	Advanced Development - Brazilian Standard RESOLUÇÃO ANP Nº 894 2022 - RESOLUÇÃO CNP Nº 6 - 70 : Tables I & II
		"01" Notes above are included in 30B CSP002
30B 02	Note 00118	Runtime error CONVT_NO_NUMBER in report /QTYW/CP_QW_BCSET_UOM
30B 02	Note 00116	BCS 30x Collective Note - Corrections & Industrial Gases - Enhancements
30B 02	Note 00119	Test Scenario & Installation Test - Usability
30B 02	Note 00122	DIN 51650 Rounding Issue VOL to VOL
30B 02	Note 00123	SYS data enrichment in Installation Test Log
30B 02	Note 00124	ABNT NBR 5992 - 2016 Range Extensions
		"02" Notes above are included in 30B CSP003
30B 03	Note 00126	ISO 6578:2025 - Compliance Enhancements
30B 03	Note 00127	Error tolerance on QW Installation Test
30B 03	Note 00128	Special Applications - UoM Defaulting
		"03" Notes above are included in 30B CSP004

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Change History:

Version	Date	Changes
00	29.09.2016	Initial release
01	03.11.2016	Added: Note 000069
02	03.11.2016	S/4HANA 1610 info. added; Minor typo. corrections
03	03.11.2016	CSP01 Release date corrected, Added Note 000070
04	03.11.2016	ACP description
05	19.04.2017	Added: Note 000071
06	02.08.2017	Generic 30$ references added and 30B references
07	16.11.2017	1709 References added & new notes
08	06.06.2018	Added: Note 000078
09	28.09.2018	Added: Note 000077
10	14.11.2018	Added: Note 000079
11	22.01.2019	Added: Note 000076
12	06.03.2019	Added: Note 000080
13	03.04.2019	Added: Note 000081
14	17.04.2019	Added: Note 000082
15	14.06.2019	1809 References added and BC-Set warning removed
16	10.07.2019	Added: Note 000083
17	19.07.2019	Added: Note 000084
18	05.11.2019	Added: Note 000088
19	15.11.2019	Added: Note 000089
20	20.11.2019	1909 Reference added
21	29.01.2020	CSP Release date update

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22	04.02.2020	Added: Note 000091
23	10.03.2020	Added: Note 000090
24	08.06.2020	Added: Note 000094
25	18.01.2020	2020 Reference added
26	21.01.2020	Added: Note 000097
27	02.02.2021	Minor changes and 2020_EX references
28	11.02.2021	Added: Note 000096
29	09.07.2021	Modified upgrade texts
30	11.09.2021	Added: CSP release and minor changes
31	29.10.2021	Added: Note 00104
32	09.11.2021	S/4 HANA (_EX) 2021 Certification
33	25.11.2021	Added: Note 00105
34	07.02.2022	Added: Note 00103
35	09.02.2022	Added: Note 00102
36	11.02.2022	Added: Note 00107
37	05.04.2022	Added: Note 00109
38	06.04.2022	Added: Note 00108
39	12.07.2022	Added CSP release and minor changes
40	13.07.2022	Added: Note 00100
41	30.09.2022	Added: Note 00110
42	30.09.2022	Formal changes
43	22.06.2023	Added: Note 00114
44	18.12.2023	Added CSP release and minor changes
45	15.02.2024	Minor explanation and formatting changes
46	16.02.2024	Added: Note 00118

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47	04.04.2024	Added: Note 00116
48	27.05.2024	Added: Note 00119 + minor changes
49	23.10.2024	Added: Note 00122
50	21.12.2024	Added: Note 00123 + Note 00124
51	26.11.2025	Added CSP release and minor changes
52	05.02.2026	Added: Note 00126
53	27.03.2026	Added: Note 00127
54	12.10.2026	Added: Note 00128

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Transport Reference

SAP Release	Transport	File Name	Notes
ECC600	-	See individual notes	
S/4 HANA	-	See individual notes	

Validity

SAP Release	From SP	To SP	In SP Shipment
ECC600	All	All	-
S/4 HANA	All	All	-

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