HANA Heroes Expert Session

Title: Upgrade S/4HANA Version 2020 - Basis View
Presenter: Roland Kramer

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Agenda

(My) Motivation

The (Upgrade) Story so far …

News with S/4HANA 2021 (Basis 7.56)

Resources and Documentation

Q & A

(My) Motivation

(My) Motivation

Since the Release of SAP BW/4 1.0 and later Version 2.0, it got quiet around the SAP Upgrade.

So I already started with the S/4 Upgrade from 1610 (SAP Basis 7.51, ABAP 7.5B) to 1709 (SAP Basis 7.52, ABAP 7.5C), as it was earlier available as the SAP Upgrade from BW/4 1.0 (SAP Basis 7.50, ABAP 7.5A) to Version 2.0 (SAP Basis 7.53, ABAP 7.5D)

The Challenge with S/4 Upgrades is the involvement of the Maintenance Planner, and often the Result of the output caused some trouble during the SAP Upgrade procedure. Furthermore, the Changes in the different SAP Releases, the Add-On Problematic and the SAP S/4HANA Simplification Item Check kept the whole Story always interesting.

Finally, my Upgrade Source was an inconsistent IDES Version which was even in it's initial Version 1610 as a corrupt leftover from an ERP Upgrade to S/4 no one took care of it. As the SAP Upgrade touches everything important in a SAP System and turns it upside down, it was clear: If this Upgrade is successful, then there will be no SAP System too complex not be able to Upgrade to a higher Version

The (Upgrade) Story so far
Upgrades from SAP Basis 7.50 onwards

SAP BW Technical and Functional Upgrade - need to know

SAP BW Technical and Functional Upgrade

Information for the Upgrade to SAP BW 7.50 and BW/4HANA:

- Presentation: **Upgrade to SAP BW 7.50** (Last Update: 14th of December 2020)
- Blog: Upgrade to SAP BW 7.50 (comments are still relevant)
- SAP BEx Community Page
- SUM for ABAP – Troubleshooting Guide
- Blog: Upgrade BW/4HANA 2.0 – the time is now …

Additional Information about the former BW release upgrades:

- Presentation: Upgrade to SAP NetWeaver BW 7.3x
- Presentation: Upgrade to SAP BW 7.40
- the Legend is back, "the Upgrade Bible": Upgrade to SAP BW 7.0x
- Changes in SAP BEx after Upgrade to 7.3x
- SAP Business Explorer (BEx) Maintenance and Support Policy
- Good News – Easier Modeling of the SEM Add-On in Solution Manager

https://blogs.sap.com/2016/10/11/software-application-lifecycle-management-sap-bw/#bwupgrade

SAP S/4HANA 1610 - need to know

- SAP Basis 7.51, ABAP 7.5B, SAP Kernel 7.53, SAP JAVA 7.50 (also for all higher Releases)

- SAP_UI is up to Version 7.54 available as highest Version, 7.51/7.52 out of maintenance

- S/4 CORE/FND 801

- Embedded BW 7.51, not compatible with BW/4 1.0, SAP Content Server 6.50 and 7.53

- Different Flavors available beside SAP S/4HANA 1610 (w/o FND/MDG components)
  – AS ABAP 7.51 FOR S/4HANA 1610
  – NW 7.51 FOR S/4HANA OP 1610
  – NW AS ABAP 7.51 INNOVATION PKG

- Cannot be used a source for an In-Place BW/4 HANA Conversion

Upgrade from 1610 to 1709 - Need to know

- SAP Basis 7.51 to 7.52, ABAP 7.5B to 7.5C, SAP Kernel 7.53

- SAP_UI is up to Version 7.54 available as highest Version, 7.52 out of maintenance

- S/4 CORE/FND from 801 to 802

- Embedded BW Update from 7.51 to 7.52, not compatible with BW/4 1.0

- Initial Delivery as HANA Export (only) which must downloaded separately, MP only reflects the delta like FPS Releases. Only the first three FPS Releases are tested for the Upgrade

- ABAP FND 1709 available: SAP NetWeaver 7.52 plus S/4 FND and MDG 802

- The SAP S/4HANA - Simplification Item Check or readyness Check is mandatory Important SAP Notes 2399707 and 2502552 MUST be implemented and updated beforehand

- Check all Add-On's for higher Support and if they are still necessary

- Beside the Activation Phase, PARCONV, DDLS consistency, HANA Containers becomes important

Upgrade from 1709 to 1809 - Need to know

- SAP Basis 7.52 to 7.53, ABAP 7.5C to 7.5D, SAP Kernel 7.73 (oom) and 7.77

- SAP_UI is up to Version 7.54 available as highest Version

- S/4 CORE/FND from 802 to 803

- Embedded BW Update from 7.52 to 7.53, not compatible with BW/4 2.0

- Initial Delivery as HANA Export (only) which must downloaded separately, MP only reflects the delta like FPS Releases. Only the first three FPS Releases are tested for the Upgrade

- ABAP FND 1809 available: SAP NetWeaver 7.53 plus S/4 FND and MDG 803

- The SAP S/4HANA - Simplification Item Check or readyness Check is mandatory Important SAP Notes 2399707 and 2502552 MUST be implemented and updated beforehand

- Check all Add-On's for higher Support and if they are still necessary

- Beside the Activation Phase, PARCONV, DDLS consistency, HANA Containers becomes important

Upgrade from 1809 to 1909 - Need to know

- SAP Basis 7.53 to 7.54, ABAP 7.5D to 7.5E, SAP Kernel 7.77

- SAP_UI is Version 7.54 as highest Version

- S/4 CORE/FND from 803 to 804

- Embedded BW Update from 7.53 to 7.54, not compatible with BW/4 2.0

- Initial Delivery as HANA Export (only) which must downloaded separately, MP only reflects the delta like FPS Releases. Only the first three FPS Releases are tested for the Upgrade

- SAP ABAP Platform 1909 not available for Customers, also no Upgrade from previous Releases

- The SAP S/4HANA - Simplification Item Check or readyness Check is mandatory Important SAP Notes 2399707 and 2502552 MUST be implemented and updated beforehand

- Check all Add-On's for higher Support and if they are still necessary

- Beside the Activation Phase, PARCONV, DDLS consistency, HANA Containers becomes important

Upgrade to S/4HANA 2020 (possible from 1709) - Need to know

- SAP Basis 7.55, ABAP 7.5F, SAP Kernel 7.81

- SAP_UI is Version 7.55 as highest Version at this time, in sync with SAP Basis 7.55

- S/4 CORE/FND 805 (DMIS 2020 is retrofit to S/4 and S4FND 105 Add-On)

- Embedded BW Update from 7.54 to 7.55 not compatible with BW/4 2.0

- Initial Delivery as HANA Export (only) which must downloaded separately, MP only reflects the delta like FPS Releases. Only the first three FPS Releases are tested for the Upgrade

- SAP ABAP Platform 2020 available: SAP NetWeaver 7.55

- The SAP S/4HANA - Simplification Item Check or readyness Check is mandatory Important SAP Notes 2399707 and 2502552 MUST be implemented and updated beforehand

- Check all Add-On's for higher Support and if they are still necessary

- SAP GUI 7.70 still supports IE11, but not recommended for embedded use cases like DBACOCKPIT and option is possible to use
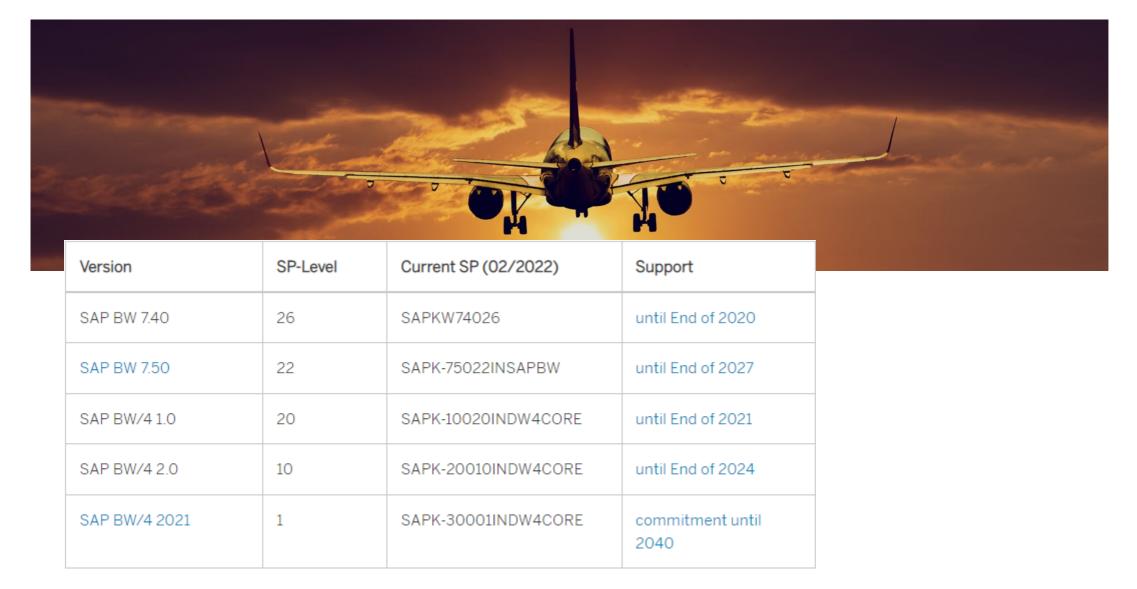
News with S/4HANA 2020
(Basis 7.55)

Upgrade to S/4HANA 2021 (possible) - Need to know

- SAP Basis 7.56, ABAP 7.5G, SAP Kernel 7.85

- SAP_UI is Version 7.56 as highest Version at this time, will be possibly replaced in the future

- S/4 CORE/FND 806 (DMIS 2020 is retrofit to S/4 and S4FND 106 Add-On)

- Embedded BW 7.56 not compatible with BW/4 2021

- Initial Delivery as HANA Export (only) which must downloaded separately, MP only reflects the delta like FPS Releases. Only the first three FPS Releases are tested for the Upgrade

- SAP ABAP Platform 2021 available: SAP NetWeaver 7.56

- The SAP S/4HANA - Simplification Item Check or readyness Check is mandatory Important SAP Notes 2399707 and 2502552 MUST be implemented and updated beforehand

- Check all Add-On's for higher Support and if they are still necessary

- SAP GUI 7.70 still supports IE11, but not recommended for embedded use cases like DBACOCKPIT and option is not anymore possible to use
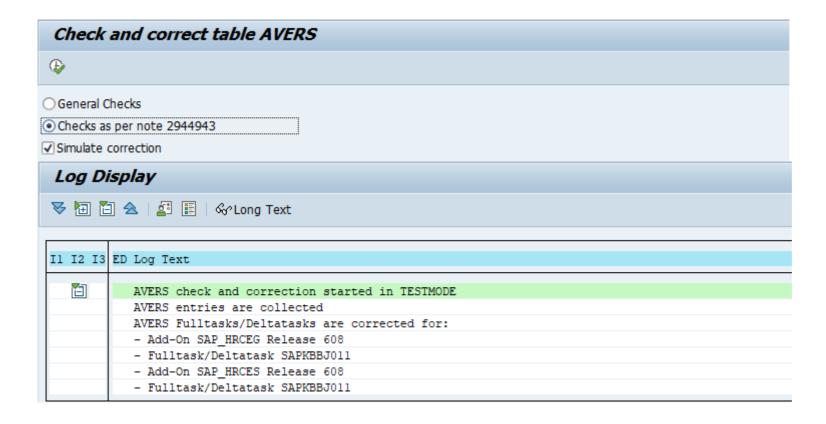
Blog - SAP BW/4HANA 2021 - in sync with S/4HANA 2021

Version	SP-Level	Current SP (02/2022)	Support
SAP BW 7.40	26	SAPKW74026	until End of 2020
SAP BW 7.50	22	SAPK-75022INSAPBW	until End of 2027
SAP BW/4 1.0	20	SAPK-10020INDW4CORE	until End of 2021
SAP BW/4 2.0	10	SAPK-20010INDW4CORE	until End of 2024
SAP BW/4 2021	1	SAPK-30001INDW4CORE	commitment until 2040

SAP BW/4HANA 2021 - Software Stack Evolution

SAP BW 7.50 on HANA	SAP BW/4HANA 1.0	SAP BW/4HANA 2.0		SAP BW/4HANA 2021
		SAP UI BAS1 400		SAP UI BAS1 500
SAP SEM 7.48	SAP BCS 1.0	SAP BCS 2.0		SAP BCS 3.0
	SAP BPC 11.0	SAP BPC 11.1		SAP BPC 2021
SAP BW 7.50	SAP DW4CORE 1.0	SAP DW4CORE 2.0		SAP DW4CORE 3.0
SAP_GWFND 7.50	SAP_GWFND 7.50	SAP_GWFND 7.53		SAP_GWFND 7.56
SAP_UI 7.50	SAP_UI 7.51	SAP_UI 7.54*	*Available with SP07 for SAP BW/4 2.0. highest UI Version for SAP BW 2.0	SAP_UI 7.56
SAP_ABA 7.50	SAP_ABA 7.5A	SAP_ABA 75D		SAP_ABA 75G
SAP_BASIS 7.50	SAP_BASIS 7.50	SAP_BASIS 7.53		SAP_BASIS 7.56
SAP Kernel 7.49	SAP Kernel 7.49	SAP Kernel 7.73		SAP Kernel 7.85

SAP S/4HANA 2021 - Software Stack Evolution

NW AS ABAP INN PKG 7.51	ABAP FND 1709 on HANA **NW AS ABAP 7.52**	ABAP FND 1809 on HANA	S/4HANA FND 1909 **ABAP Foundation 1909**	S/4HANA FND 2020 **ABAP Foundation 2020** **SAP FIORI FES 2020** **FOR S/4HANA**	S/4HANA FND 2021 **ABAP Foundation 2021** **SAP FIORI FES 2021** **FOR S/4HANA**
		SAP UI BAS1 400	SAP UI BAS1 500	SAP UI BAS1 600	SAP UI BAS1 700
	MDG FND 802	MDG FND 803	MDG FND 804	MDG FND 805	MDG FND 806
	S4FND 102	S4FND 103	S4FND 104	S4FND 805	S4FND 806
SAP BW 7.51	SAP BW 7.52	SAP BW 7.53	SAP BW 7.54	SAP BW 7.55	SAP BW 7.56
SAP_GWFND 7.51	SAP_GWFND 7.52	SAP_GWFND 7.53	SAP_GWFND 7.54	SAP_GWFND 7.55	SAP_GWFND 7.56
SAP_UI 7.52	SAP_UI 7.52	SAP_UI 7.53	SAP_UI 7.54	SAP_UI 7.55	SAP_UI 7.56
SAP_ABA 7.5B	SAP_ABA 7.5C	SAP_ABA 7.5D	SAP_ABA 7.5E	SAP_ABA 7.5F	SAP_ABA 7.5G
SAP_BASIS 7.51	SAP_BASIS 7.52	SAP_BASIS 7.53	SAP_BASIS 7.54	SAP_BASIS 7.55	SAP_BASIS 7.56
SAP Kernel 7.49	SAP Kernel 7.53	SAP Kernel 7.73	SAP Kernel 7.77	SAP Kernel 7.81	SAP Kernel 7.85

SAP S/4HANA - Check before Maintenance Planner usage

Note 2944943 – Wrong Add-On conflict calculation in upgrades and S/4HANA conversions
(execute Report RSSPAM_CORRECT_AVERS)

SAP S/4HANA - Simplification Item Check

Note 2399707 - SAP Readiness Check – Simplification Item Check
Note 2502552 - S4TC – S/4HANA Conversion & Upgrade new Simplification Item Checks
Note 2910131 - SAP S/4HANA 2020 until FPS01 Conversion & Upgrade - TCI Note #9 (inc. in FPS02)

SAP S/4HANA - HANA Container (HDI) consistency (SCTS_HTA_TOOLS)

Transactions and Utility Programs for SAP HANA Transport for ABAP

Transactions and Utility Programs	Information
▼ 📁 HTA for HDI	
▼ 📁 Create/Change/Delete HDI Containers	
• ☐ Create/Change/Delete ABAP-Managed HDI Containers	🗎
▼ 📁 Configuration in Development System	
• ☐ Test HDI Configuration	🗎
• ☐ Define Parameters of HTA-for-HDI Configuration	🗎
• ☐ Create Workspace in SAP Web IDE/Add User Rights in Workspace	🗎
▼ 📁 Troubleshooting Tools	
• ☐ Deploy/Display/Change Objects in HDI Containers	🗎
• ☐ Display HDI Container Log	🗎
• ☐ Display HDI Object from HDI Container	🗎
• ☐ Start Redeployment of HDI Objects with Errors	🗎
• ☐ Activate Inactive HDI Objects	🗎
• ☐ Execute Administration Tasks in HTA for HDI	🗎
▼ 📁 Documentation	
• ☐ SAP Help Portal: HTA for HDI	
▼ 📁 HTA for SAP HANA Repository	
▼ 📁 Object Synchronization	
• ☐ Display and Synchronize SAP HANA Repository Objects and Packages	🗎
▼ 📁 Troubleshooting Tools	
• ☐ Display and Deploy SAP HANA Repository Objects and Packages	🗎
• ☐ Start Redeployment of SAP HANA Repository Objects with Errors	🗎
• ☐ Activate Inactive SAP HANA Repository Objects and Packages	🗎
• ☐ Delete Inactive SAP HANA Repository Objects and Packages in ABAP	🗎
▼ 📁 Documentation	
• ☐ SAP Help Portal: SAP HANA Transport for ABAP	
▼ 📁 HTC for SAP HANA Repository	
▼ 📁 Troubleshooting Tools	
• ☐ Activate SAP HANA Transport Containers	🗎
▼ 📁 Documentation	
• ☐ SAP Help Portal: SAP HANA Transport Containers	

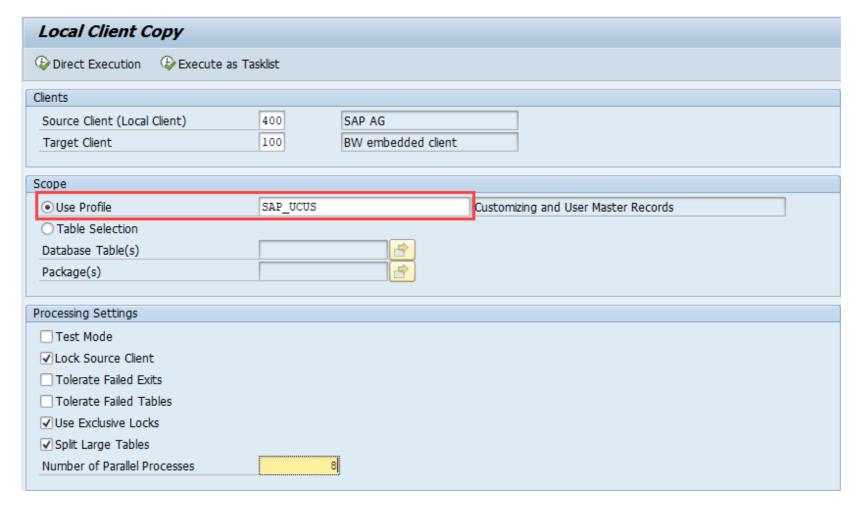# SAP S/4HANA - Technical Job Repository - Silent Data Migration (SDMI)

Technical Job Repository

🔍 Technical Job Definition Attributes   📄 Job Definition Docu   ⊞ Customize   ☉ ↗ | 📝 Change variant   ⚠ In all clients   ⚠ In all clients | 🕷 Create Stepuser   🗘 ℹ 🕹 Show

Jobs are automatically scheduled by Technical Job Repository

Client	Technical Job Definition	JD Status	JD Status Reason	Package	Background Job Name	Job Sta...	Scope Dependent
400	SAP_FIN_FDM_COLL_SEND_ITEMS_INIT	🟩		FDM_AR_COLLECTION	SAP_FIN_FDM_COLL_SEND_ITEMS_INIT	🟩	☑
400	SAP_FIN_FDM_COLL_SEND_ITEMS_P	🟩		FDM_AR_COLLECTION	SAP_FIN_FDM_COLL_SEND_ITEMS_P	🟩	☑
400	SAP_FIN_FDM_P2P_AUTO_CONFIRM	🟩		FDM_AR_COLLECTION	SAP_FIN_FDM_P2P_AUTO_CONFIRM	🟩	☑
400	SAP_FIN_FDM_P2P_JUDGE	🟩		FDM_AR_COLLECTION	SAP_FIN_FDM_P2P_JUDGE	🟩	☑
400	SAP_FIN_FDM_PROCESS_BUFFER	🟩		FDM_GENERAL	SAP_FIN_FDM_PROCESS_BUFFER	🟩	☑
400	SAP_FIN_START_SESSION_CLEANUP	🟩		FINS_FI_DECO	SAP_FIN_START_SESSION_CLEANUP	🟩	☐
400	SAP_FIN_UDM_GEN_WORKLIST	🟩		UDM_BUPA_TRANSACTION_DATA	SAP_FIN_UDM_GEN_WORKLIST	🟩	☑
400	SAP_FIN_UDM_RSM_DELETE_OLD_RSMS	🟩		UDM_RESUBMISSION	SAP_FIN_UDM_RSM_DELETE_OLD_RSMS	🟩	☑
400	SAP_FI_AGING_FI_DOCUMENT	🟩		FINS_FI_AGING	SAP_FI_AGING_FI_DOCUMENT	🟩	☐
400	SAP_FI_AGING_FI_EPIC_BRS	🟩		GLO_FIN_EPIC_CN	SAP_FI_AGING_FI_EPIC_BRS	🟩	☐
400	SAP_ILM_APPL_ARC_JOB_SCHEDULER	🟩		S_ILM_ARC_AUTOMATION	SAP_ILM_APPL_ARC_JOB_SCHEDULER	🟩	☐
400	SAP_ILM_APPL_ARC_JOB_SCHED_TEST	🟩		S_ILM_ARC_AUTOMATION	SAP_ILM_APPL_ARC_JOB_SCHED_TEST	🟩	☐
400	SAP_ILM_ARCHIVE_DATA_DESTRUCTION	🟩		S_ARC_DESTRUCTION	SAP_ILM_ARCHIVE_DATA_DESTRUCTION	🟩	☐
400	SAP_LO_VCH_TRACE_CLEANUP	🟩		VCH_HL_TRACE	SAP_LO_VCH_TRACE_CLEANUP	🟩	☑
400	SAP_MD_BP_TD_TRANSMIT	🟩		MD_BP_MAINTAIN	SAP_MD_BP_TD_TRANSMIT	🟩	☐
400	SAP_MM_PUR_HUB_SYNC_EOP_DEL	🟩		APPL_MM_PUR_REQ_HUB	SAP_MM_PUR_HUB_SYNC_EOP_DEL	🟩	☐
400	SAP_ODQ_DAEMON_STARTER	🟩		SODQS	SAP_ODQ_DAEMON_STARTER	🟩	☑
400	SAP_POC_PROCESS_EVENT_QUEUES	🟩		BS_POC_MAIN	SAP_POC_PROCESS_EVENT_QUEUES	🟩	☑
400	SAP_PRINTQUEUE_REORG	🟩		SPOPQ	SAP_PRINTQUEUE_REORG	🟩	☐
400	SAP_PS_FILL_EXTRACT_TABLES	🟩		PS_BILLING_PROPOSALS	SAP_PS_FILL_EXTRACT_TABLES	🟩	☑
400	SAP_REORG_APPLJOBS	🟩		SBTI	SAP_REORG_APPLJOBS	🟩	☐
400	SAP_REORG_APPLLOG	🟩		SZAL	SAP_REORG_APPLLOG	🟩	☐
400	SAP_SDM_EXECUTOR_ONLINE_MIGR	🟩		SDMI_FW	SAP_SDM_EXECUTOR_ONLINE_MIGR	🟩	☐

Blog - Monitoring Silent Data Migration (SDM_MON) - S/4HANA 1909 upgrade/conversion

SAP S/4HANA - Check CDS consistency - tx. SDDLAR
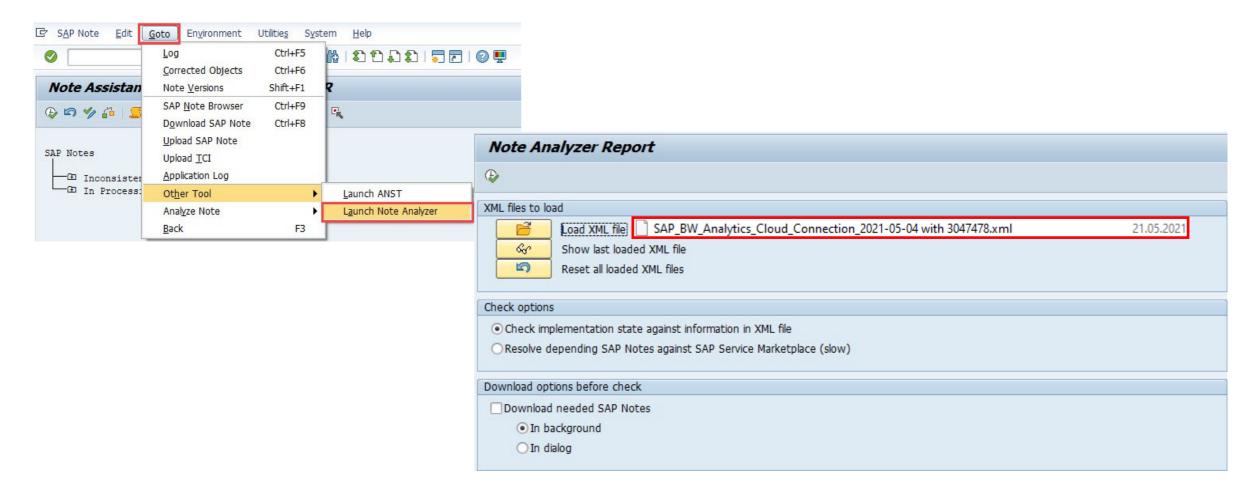
SAP S/4HANA - new Client Copy Tool - tx. SCCLN

Blog - New Client Copy Tool
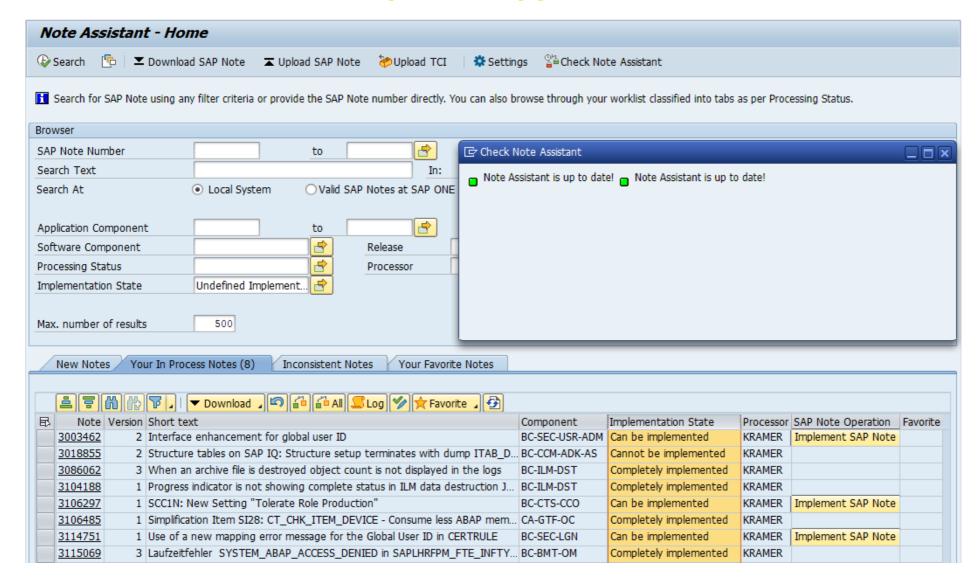Note 2962811 – New Client Copy Tool: General Information

SAP S/4HANA - Note Analyzer Integration - tx. SNOTE

[Note 3007273 - Note Analyzer integration into SNOTE](#)
[Note 2541557 - SAP Analytics Cloud with BW live connection - Which BW support package is recommended?](#)

SAP S/4HANA - new revamp Note Application - tx. SNOTE

Resources and Documentation

Here is my current Blog collection about SAP S/4HANA Upgrade(s)

SAP on Linux

Blog - Upgrade to S/4HANA 1709 FPS01 – fast track

Blog - S/4HANA 1709 FPS02 – the story continues …

Blog - S/4HANA 1709 SPS03 – back on the Mothership again …

Blog - Upgrade to S/4HANA 1809 SPSx – the final frontier

Blog - Upgrade to SAP S/4HANA 2020 – time to change

Blog - SAP ILM based on SAP IQ Database

Blog - Upgrade SAP BW/4HANA 2.0 – the time is now …

https://blogs.sap.com/2016/10/11/software-application-lifecycle-management-sap-bw/#bwupgrade

Still Questions or more Answers needed?

Thank You!

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