

SAP BW/4HANA, Business Consolidation Add-On ("BCS/4HANA")

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Agenda

BCS/4HANA

- Add-On to SAP BW/4HANA
- Important SAP Notes on BCS/4HANA
- Functional scope beyond SEM-BCS EHP8
- Simplification items
- Conversion from SEM-BW to BCS/4HANA

SAP BW/4HANA – Innovation Platform for Data Warehouse Solution

SAP BW/4HANA is SAP's strategic solution for Data Warehouse

- Not a legal successor of "traditional" BW
- Can only be run with HANA as underlying database
- Heavily optimized on HANA
 - Removal of legacy functionality (e.g., InfoCubes, DSO)
 - New objects which are HANA-optimized (e.g., aDSO = advanced DSO)
 - List of "simplification items" (=> see SAP Note 2421930)
- No SAP NetWeaver stack only HANA DB and ABAP application server
- Software component DW4CORE
- Limited support of Add-On (=> see SAP Note 2189708)
- Uninstalling of some Add-On possible (=> see SAP Note 2011192)

BCS/4HANA – Add-On to SAP BW/4HANA

BCS/4HANA is an Add-On to SAP BW/4HANA ("Business Consolidation Add-On")

- *Not* a legal successor of "traditional" SEM-BW Add-On
- Software component BCS4HANA contains:
 - only BCS part of SEM-BW (e.g., SEM-BPS, SEM-SRM, etc. are not included)
 - only MDF (= master data framework) part of FINBASIS
 - that part of BI_CONT (= BW Content) which is related to BCS functionality
- Technology adoption of BCS on SAP BW/4HANA
 - Storage of transaction data in "DataStore Object (advanced)" (aDSO)
 - Support of navigational attributes by usage of "HANA CompositeProvider" (HCPR)
 - Reporting on "BAdl Provider" (= replacement of "virtual provider")
- Functional scope of BCS/4HANA
 - Functional scope of all SEM-BCS EHP
 - Enhanced functionality beyond SEM-BCS EHP8
 - Simplification items
- Conversion from SEM-BW to BCS/4HANA
 - In-place conversion is supported
 - Remote conversion is currently not supported

BCS/4HANA – Important SAP Notes

- 1330000 (release note for BCS/4HANA)
- 2684537 (technical installation and upgrade to BCS/4HANA)
- 2651241 (conversion from SEM-BCS (SEM-BW) to BCS/4HANA)

BCS/4HANA – Setup of DSO (Advanced) for Totals Records

Details: Z_BWL_JS General: Z BWL JS Fields DataStore Object (advanced) Name Key Remodeling Type Length/ ... Aggregation Criteria InfoObject Technical Name: Z_BWL_JS ✓ → [CHAR] Characteristics Description: aDSO JoachimS [0SX_PLPE] SophEx - Planning Period NUMC OSX PLPE [0SX_PLYR] SophEx - Plan Year NUMC OSX PLYR [OSX_VDIM] SophEx - Version - Dimension CHAR External SAP HANA View OSX VDIM IOSX VNR] SophEx - Version Number CHAR 0SX VNR [0SX_DCAT] SophEx - Data Category CHAR OSX DCAT **Modeling Properties** [0SX_CSLC] SophEx - Data Slice CHAR OSX CSLC [OSX_ACCS] SophEx - Accounting Principles CHAR 2 0SX ACCS Activation: [0SX_FS] SophEx - Item CHAR OSX FS 10 [0SX_FSC] SophEx - Consolidation Chart of Accounts CHAR OSX FSC 2 Activate Data [0SX_PCG] SophEx - Profit Center Group CHAR OSX PCG Write Change Log [0SX CYG] SophEx - Consolidation Group CHAR OSX CYG [0SX_PCY] SophEx - Partner Company CHAR 10 **OSX PCY** Keep Inbound Data, Extract from Inbound Table [0SX_PPC] SophEx - Partner Profit Center CHAR OSX PPC IOSX IPCI SophEx - Investee Profit Center CHAR 0SX IPC Unique Data Records 6 [0SX_ICY] SophEx - Investee Company CHAR 10 OSX ICY Snapshot Support [0SX_JCY] SophEx - Investor (Company) CHAR 10 OSX JCY IOSX JPCI SophEx - Investor (Profit Center) CHAR 6 OSX JPC [0SX_ACY] SophEx - Allocation Company CHAR 10 0SX ACY [0SX_APC] SophEx - Allocation Profit Center CHAR OSX APC Special Types: [0SX_AQP] SophEx - Period of First Acquisition NUMC OSX AQP Direct Update [0SX_AQY] SophEx - Fiscal Year of First Acquisition NUMC OSX AQY [0SX FA] SophEx - Functional Area CHAR 10 OSX FA All Characteristics are Key, Reporting on Union of Inbound and Active Table [0SX_MT] SophEx - Transaction Type CHAR 3 0SX MT Planning Mode Characteristic Relations Data Slices 0SX_REG] SophEx - Region CHAR OSX REG IOSX CTRY] SophEx - Country Key CHAR **OSX CTRY** - 3 Inventory [0SX_SI] SophEx - Subitem CHAR 10 OSX SI [0SX_SIC] SophEx - Subitem Category CHAR OSX SIC The selected properties match template "Data warehouse layer - data mart". [0SX_LOB] SophEx - Line of Business CHAR OSX LOB [0SX_MAT] SophEx - Maturity CHAR OSX MAT [0SX RESP] SophEx - Result Responsibility CHAR OSX RESP **Data Tiering Properties** [0SX_RISK] SophEx - Risk CHAR **OSX RISK** [0BCS_PRGRP] Product Group CHAR 18 **OBCS PRGRP** Temperature Schema / Tiers [0SX_LI2] SophEx - Details 2 CHAR OSX LI2 [0SX_PC] SophEx - Profit Center CHAR OSX PC Hot (SAP HANA Standard Nodes) IOSX_CY] SophEx - Company CHAR 10 OSX CY Warm (SAP HANA Extension Nodes) [0SX_LI3] SophEx - Details 3 CHAR OSX LI3 [0SX_LI4] SophEx - Details 4 CHAR <u>OSX LI4</u> Cold (External Cold Store) [0SX LI5] SophEx - Details 5 CHAR OSX LI5 [0SX_LI6] SophEx - Details 6 CHAR OSX LI6 Temperature Maintenance CHAR [0SX_LI9] SophEx - Details 9 0SX LI9 On Object Level IOSX LI7] SophEx - Details 7 CHAR OSX LI7 [0SX_LI8] SophEx - Details 8 CHAR OSX LI8 On Partition Level 0SX_PDL] SophEx - Product Level NUMC OSX PDL IOSX LI11 SophEx - Details 1 CHAR 0SX LI1 [0SX_SCU] SophEx - Subassignment Unit CHAR 14 OSX SCU [0SX_ACTRY] SophEx - Allocation Country CHAR 0SX ACTRY [0SX_DT] SophEx - Document Type CHAR OSX DT [0SX DIM] SophEx - Dimension CHAR 0SX DIM IOCS PLEVEL] Posting Level CHAR OCS PLEVEL [0BCS_DIDIEL] Direction Indicator for Elimination of Investment Income NUMC **OBCS DIDIEL** IOBCS CTFLG1 Currency Translation Indicator NUMC OBCS CTFLG IOSX RSTM1 Restatement NUMC OSX RSTM

@ [0FISCPER3] Posting period

NUMC

OFISCPER3

BCS/4HANA – Assignment of DSO (Advanced) to Data Basis

Data Basis JS Databasis Joachin	mS				
Field Catalog Data Model Data Streams	Data Stream Field	ds Attributes	Mapping	Authorization/Validity Check	Column Headings
RFC Destination					
InfoProvider for Totals Records	Z_BWL_JS		aD	SO JoachimS	
InfoArea for Characteristics	0BCS_ASSETS		As	sets/Liabilities	
InfoArea for Key Figures					
Source Data Basis Assignments					
EDED					
Source DB Name Dest.					

BCS/4HANA – Current Functional Scope

Functional scope of BCS/4HANA

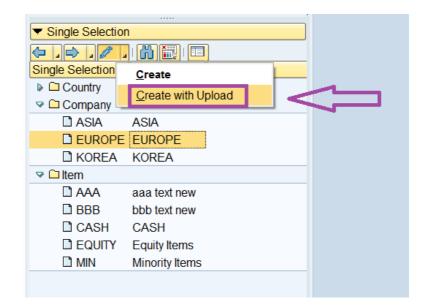
- Functionality of EHP1 EHP8 of SEM-BCS
 - Business Functions do not exist in BCS/4HANA
 - BCS/4HANA corresponds to SEM-BCS in ERP with all Business Functions switched on
- Enhanced functionality beyond SEM-BCS EHP8 (=> see subsequent pages for details)
 - Upload and download of single selections
 - Direct read of reported financial data from data stream (InfoProvider) without replication
 - Copy of "Documents (Direct)"
 - Method assignment dependent on attributes of consolidation units
 - Usability improvements in manual posting
 - Consistency check during reversal and inversion of documents
 - Multiple selection of consolidation groups in list of journal entries
 - Preceding task relationships across periods
 - Version dependency of assignment of breakdown categories to FS items
 - Version dependency of check for blocked accounts on FS items and transaction types
 - Version dependency of adjustment of deferred taxes at changes of tax rates
 - Assignment of special hierarchy version to restatement value per fieldname of characteristic
 - Rolling forecast and suppression of instantaneous automatic inversion of documents in restatement
 - Indicator for "Adjustment of First Consolidation" in consolidation unit hierarchy
 - Cleanup of task status and change of period status with selection screen
- Simplification items (topics in SEM-BCS with limited or no support in BCS/4HANA)

BCS/4HANA – Upload and Download of Single Selections

Process View Object Name Charles Single Selection Company EUROPE EUROPE EUROPE EUROPE Consolidation Units Consolidation Functions Consolidation Functions Consolidation Functions Consolidation Functions Consolidation Montor Consolidation Mo	Object Name Image: Consolidation Units Master Data Image: Consolidation Units Image: Consolidation Units Image: Consolidation Units Image: Consolidation Units Image: Consolidation Units Image: Consolidation Units Image: Consolidation Units Image: Consolidation Mathbutes Image: Consolidation Mathbutes Image: Consolidation Mathbutes Image: Consolidation Mathbutes <	·,	Consolidation Area JS Version Number JOS 🗨 Restatement 0 🗨 Consolidation Group	-
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Integration into workbench (UCWB)

- Upload / download of existing single selections
- Creation of new single selections by upload



BCS/4HANA – Structure of MS Excel File for Single Selections

Field Name	Description	Value
AREA	Cons Area	JS
LANGU	Language	EN
FIELDNAME	Field Name	/1FB/SX CY
SISEL	Single_Selection	EUROPE
DATE	Date	12,11,2018
TIME	Time	10:43:04
SYSID	System ID	BWL
CLIENT	Client	333

Row Type

Row Type

SEL SEL

SEL

SEL SEL

SELTXT

Sheets in MS Excel file for single selections

- **Parameters**
- Legend
- **Single Selection**

System ID	BVVL							IE LT
Client	333							E_LT E_GE E_LE E_BT E_NB
Cilent	333							E_LE
	1							E_BT
								E_NB
								E_CP E_NP
								CROSS EQ
								CROSS NE
								CROSS GT
								CROSS_LT
								CROSS_GE
Single_Selection	Description	Characteristic	Longuaga					CROSS_LE I_HRY_EQ
Single_Selection	Description	Characteristic	Language					E_HRY_EQ
EUROPE	EUROPE	/1FB/SX CY	EN					
LONOTE	LONOL	/II BION_01	LIN					Field Name
								/1FB/AC_DOC /1FB/AC_DOC
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EUROPE		/1FB/SX CY	1.50	/1FB/SX CTRY		DE		/1FB/AC_IVPE
EUROPE		/ IFD/SA_CT	I_EQ	/IFD/SA_CIRT		DE		/1FB/AC_IVYE
EUROPE		/1FB/SX CY	I EQ	/1FB/SX CTRY		FR		/1FB/AC_OIDC /1FB/AC_OIPE
		_	-	-				/1FB/AC_OIYE
EUROPE		/1FB/SX CY	I EQ	/1FB/SX CTRY		GB		/1FB/AC_ORD
			-	-				/1FB/AC ORP
EUROPE		/1FB/SX CY	I EQ	/1FB/SX CTRY		IT		/1FB/AC_ORY
EUROPE		/1FB/SX_CY	1.50	MED/OV OTDV		CZ		/1FB/AC_RVD
EUROPE		/ IFD/SX_CY	I_EQ	/1FB/SX_CTRY		UΖ		/1FB/AC_RVP /1FB/AC_RVY
								/1FB/BCS AG

Row Type	Description	
SELTXT	Row type for selection name	
SEL	Row type for selection line	
Selection Options	Description	
I_EQ	Equal to	
I NE	Select - Not Equal to	
GT	Select - Greater than	
Г.T	Select - Less than	
GE	Select - Greater than/Equal to	
I LE	Select - Less than/Equal to	
BT	Select - Range Inclusive	
I NB	Select - Range Exclusive	
I CP	Select - Pattern Inclusive	
I NP	Select - Pattern Exclusive	
E EQ	Do Not Select - Equal to	
E NE	Do Not Select - Equal to	
E GT	Do Not Select - Not Equal to Do Not Select - Greater than	
E_GI E LT	Do Not Select - Greater than Do Not Select - Less than	
E_GE E LE	Do Not Select - Greater than/Equal to	
	Do Not Select - Less than/Equal to	
E_BT	Do Not Select - Range Inclusive	
E_NB	Do Not Select - Range Exclusive	
E_CP	Do Not Select - Pattern Inclusive	
E_NP	Do Not Select - Pattern Exclusive	
CROSS_EQ	Cross-Characteristic - Equal to	
CROSS_NE	Cross-Characteristic - Not Equal to	
CROSS_GT	Cross-Characteristic - Greater than	
CROSS_LT	Cross-Characteristic - Less than	
CROSS_GE	Cross-Characteristic - Greater than/Equal to	
CROSS_LE	Cross-Characteristic - Less than/Equal to	
I_HRY_EQ	Nodes - Select	
E_HRY_EQ	Nodes - Do Not Select	
Field Name	Description	
	Description Document Line	
/1FB/AC_DOCLN		
/1FB/AC_DOCNR	Document Number (EACC; SEM-BCS)	
/1FB/AC_DOCTEXT	Document Text Number of Inversion Document	
/1FB/AC_IVDOCNR		
/1FB/AC_IVPER	Period of Inversion Document	
/1FB/AC_IVYEAR	Fiscal Year of Inversion Document	
/1FB/AC_OIDOCNR	Number of Inverted Document	
/1FB/AC_OIPER	Period of Inverted Document	
/1FB/AC_OIYEAR	Fiscal Year of Inverted Document	
/1FB/AC_ORDOCNR	Document Number of Source Document	
/1FB/AC_ORPER	Period of Source Document	
/1FB/AC_ORYEAR	Fiscal Year of Source Document	
/1FB/AC_RVDOCNR	Reversal Document Number	
/1FB/AC_RVPER	Period of Reversal Document	
/1FB/AC_RVYEAR	Fiscal Year of Reversal Document	
/1FB/BCS AGENTA	Workflow: Approval Agent	

BCS/4HANA – Copy of "Documents (Direct)"

New data type "Documents (Direct)" in copy method

- Read only documents from source => significant performance improvement
- Process requirements for task execution in target
 - BCF (= balance carryforward) with embedded copy (=> see next page)
 - C/T (= currency translation)

	=	Consolidation Area JS Versio	on Number JOS 💽 Restatement 🔽) 🔽 Consol
Process View				
Object Name				
Data Model	*	Method JS0	CPY	
🕶 🗁 Master Data	*	Data Type	ocuments (Direct)	-
 Versions Consolidation Units Items Subassignments Custom Attributes Single Selection Restatement Consolidation Functions Data Collection Task Method Data Entry Layout Data Entry Group Flexible Upload Copy (Method) Delete (Method) Delete (Method) Load from Data Stream Workflow Variant 		Source Consolidation Area Source Version Numbe Sour Source Version Numbe Sour 100 AC Sur Sur Sur Sur Sur Sur Sur Sur Sur Sur	icuments (Direct) icuments ird-party Investment quence of Activities ncurrent Assets - Consolidated ncurrent Assets sets/Liabilities unsfer of Noncurrent Assets pplier Data entory Data uity Holdings Adjustments iodwill anges in Investee Equity	ent Trgt. Versi 200

BCS/4HANA – Direct Read from Data Stream – Activation in Cons. Area

Cons Area V2 Target for read from data stream	
Fields Settings	
Consolidation Monitor	C Performance Assistant
Status Management Activated	
Hierarchy-dependent Status Management	
Open Periods Explicitly	Direct Read of Reported Data from BW InfoProvider
Multiperiod Consolidation	Direct Read of Reported Data from BW interforder
Conditional Status Update	This setting enables direct access to BW InfoProvider to read reported financial data without replication into BCS totals data base.
Archiving of Monitor Status	
Check Digits for Transaction Data	Use
Parameters	After you have activated this setting, you can set up the system for direct read access for reported financial data as follows:
☑Display Cons Area as Parameter	 In the Process View of consolidation workbench, there is a new entry Consolidation Functions -> Direct Read Access to Reported Data. Here you define the source InfoProviders by refering to the setup for load from data stream:
Breakdown Categories	 Create one task of new task category Direct Read of Reported Data.
Use Maximum Selections	 Assign data collection methods (possibly dependent on consolidation units) to the task for direct read of reported data.
Version-Dependent Assignment	
Consolidation Functions Used	 The data collection methods which you assign to the task for direct read of reported data must have one or more methods for load from data stream assigned.
Elim. of IU Profit/Loss in Inventory	
Elim. of IU Profit/Loss in Assets	 In the methods for load from data stream, you define the source InfoProvider (and RFC connection) according to the Standard functionality for load from data stream.
Assets Held for Sale	
Consolidation of Investments	 Include one task for direct read of reported data into the task hierarcy of the consolidation monitor, next to the data collection task in task acquirect.
Organizational Changes	task in task sequence.
Goodwill in Local Currency	 The reported financial data which are read from a source InfoProvider without replication into BCS totals data base are on initial
Separation of Goodwill from Investment	posting level which is named Reported Data: Direct Read. This posting level is relevant for both reporting and task processing:
Full Goodwill	 For any selection which either explicitly contains the initial posting level or does not restrict the posting level, the system
Change of Control	evaluates the settings in the task for direct read of reported data, to determine the load from data stream methods for the consolidation units to be selected.
Deviating Shares	
Restatement of ConsGrp-Dependent Postings	The system then executes the "reading part" of the load from data stream, including mapping functionality.
Workflow for Approving Documents	• The data read from data stream are not stored into BCS totals data base. Instead, they are displayed in the report or
Workflow for Status Changes	processed by the task which is executed (e.g., reclassification).
Adjustment of Deferred Taxes	
Executability of Custom Tasks	
Method Assignment of Reclassification Tasks	
Assignment of Rounding Methods	
Direct Read of Reported Data	
Technical Settings	
Consistency Check During Doc. Rev. No check	
Length of Value Fields	

SP1

BCS/4HANA – Task for Direct Read from Data Stream

년 <u>W</u> orkbench <u>E</u> dit <u>G</u> oto V <u>i</u> ews Environ	nment System Help	-BX
🖉 🚺 🐨 🔽	: · · · · · · · · · · · · · · · · · · ·	
Workbench: Change Task JOSDS	SR -	
Workbench: Change Task JOSDS Process View Object Name Data Model Master Data Consolidation Functions Consolidation Functions Data Collection Data Collection Data Collection Data Collection Data Collection Data Consolidation Group Used Task Currency Translation Rounding Change to Consolidation Group Used Task Copy Balance Carryforward Technical View Tools Task	Consolidation Version Consolidation Profit Profit Realt Crown	2019
Task Name Jos Dos Dos Dos Dos Dos Dos Dos Dos Dos D	Assignment of data collection method (in dependency of consolidation unit) => data collection methods need assignment of load from data stream methods (definition of source InfoProvider)	



BCS/4HANA – Balance Carry Forward with Embedded Copy

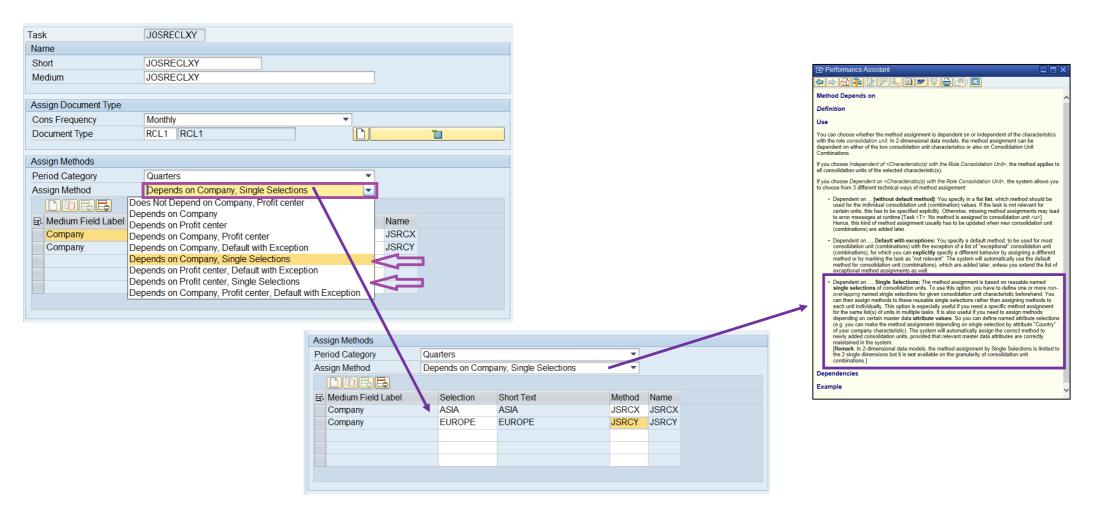
Settings for BCF with embedded copy

- Assignment of copy method to BCF task
- Definition of "starting year for plan version" in version combination
- => Execution of BCF with embedded copy also in single-period cons.

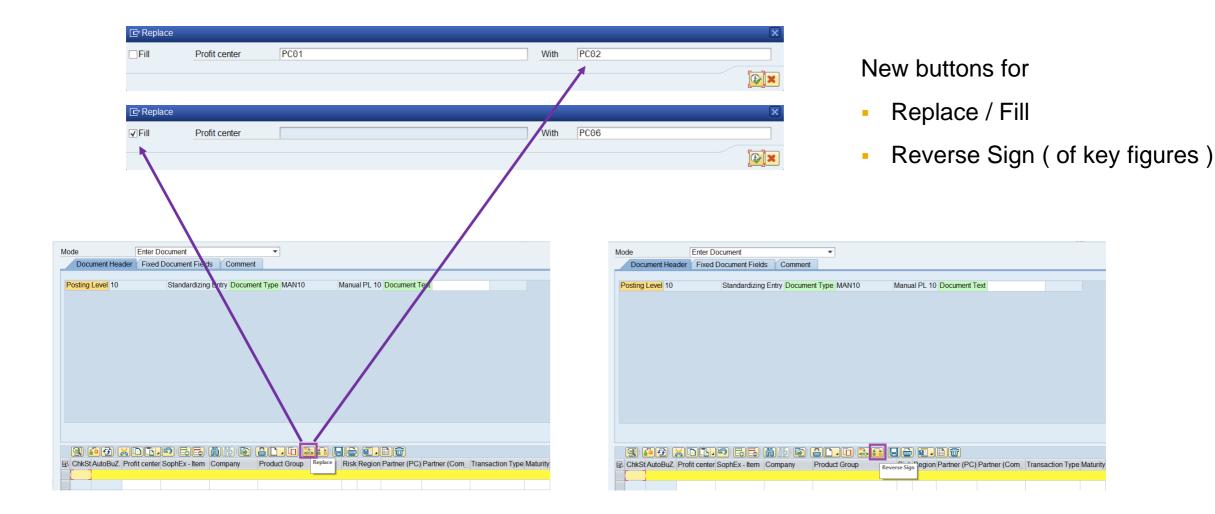
Workbench: Change Version Co	mbinations			
 ✓ Process View 	Consolidation Area JS	Version Number JOS	Restatement	0 Consolidation
Object Name Data Model	EEE			
Master Data Point Versions	Version Number 100 - Version 100	Data Category Consolid AC - Actuals 1 5 - Month		Starting V Repetition of Task Run Starting Year for Plan Version 2002 Delete Old Documents E
E SophEx - Version Number E SophEx - Data Category E Version Combinations	200 - Version 200 JOS - Version JoachimS	AC - Actuals 5 - Month AC - Actuals 5 - Month AC - Actuals 5 - Month	·	2002 Delete Old Documents II 3000 Delete Old Documents II
Special Versions West of Combinations Section Combinations	E			E E
				Č.
 Items Subassignments 			U	
Custom Attributes				

🖻 Performance Assistant	
← → 🖞 🖡 🖢 🟸 😓 🖽 💌 🗣 📥 🖆 🖾	
Text	
Starting Year of Plan Version	
Definition	
Specifies the earliest fiscal year in which it is possible to post in the current version	combination.
Use	
A starting year should be specified only for those version combinations that you use a planning scenario.	in conjunction with
If you specify a starting year for a version combination, you can execute the balance version combination in the starting year of this version combination with an integrate in the case of one-period consolidation (that is, non-multiperiod consolidation). The then works as follows:	ed copy method also
Read the cumulated values of the previous year of the starting year from the of the copy method	source environment
Summarize the values read into the zero period of the starting year	
 Post the summarized values to the zero period of the starting year to the par of the current execution of the balance carryforward (if this matches the targe copy method) 	
Dependencies	
You can assign a starting year of the plan version to the version combination only if assigned a consolidation cycle for multiperiod consolidation to the version combinat	
If you have assigned the version combination a consolidation cycle, the starting yea and the zero delta year of the consolidation cycle are identical.	r of the plan version

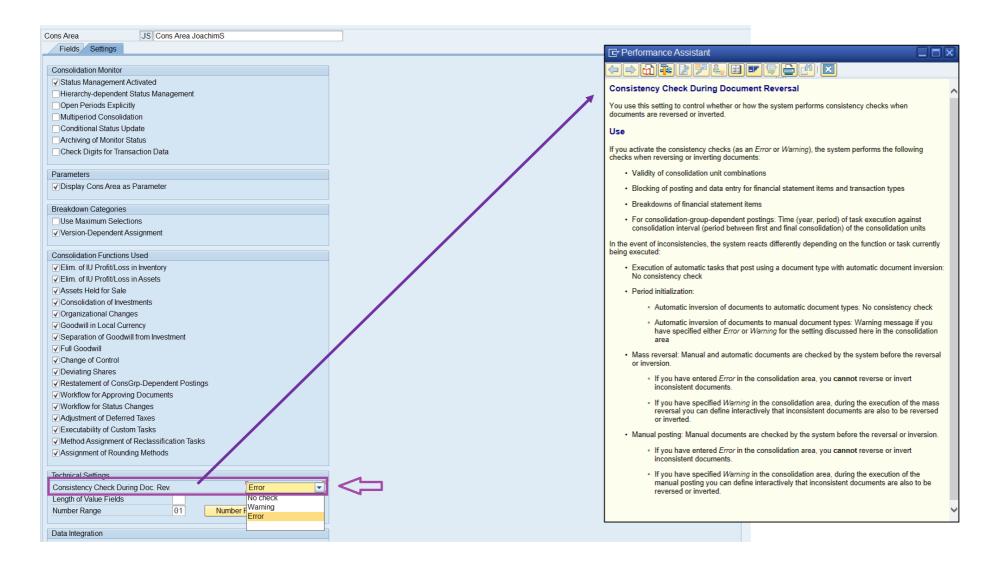
BCS/4HANA – Method Assignment Dependent on Cons. Unit Attributes



BCS/4HANA – Usability Improvements in Manual Posting



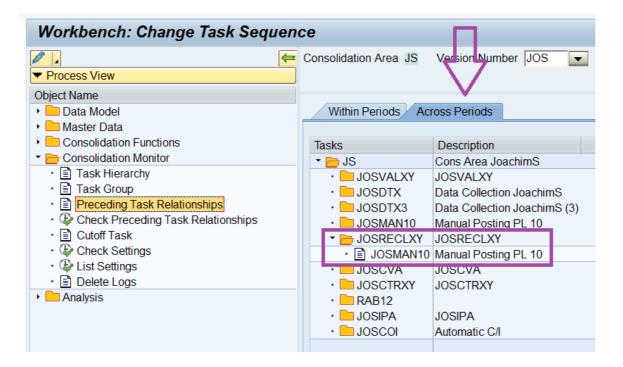
BCS/4HANA – Consistency Check During Document Reversal



BCS/4HANA – Preceding Task Relationships Across Periods

Preceding task relationships across periods

- Explicitly maintained by end user
- Dependency of task status on preceding / successor task in previous / next period



BCS/4HANA – Version Dependency of Breakdowns of FS Items

Assignment of breakdown categories to FS items

- SEM-BW => dependent on consolidation area
- BCS/4HANA => dependent on consolidation area and special version (of type "account")

Automatic migration of existing assignment to *all* existing special versions (of type "account") is performed during regeneration of consolidation area.

Item	28100000	
Name		
Short	Badwill	
Medium	Badwill	
Long	Badwill	
Item Other Attributes		
Item		
Entry		Item Type
Dr./Cr. Sign		Balance Sheet
Block Posting and Data	a Entry	
Breakdown Category	6000	
	\wedge	
	ר ו ו	
	U	

BCS/4HANA – Version Dependency of Check for Blocked Accounts

Check for blocked accounts (FS items, transaction types)

SEM-BW => dependent on consolidation area

BCS/4HANA => dependent on consolidation area and special version (of type "account") Attention: No migration of existing settings for indicators for checks for blocked accounts !

=> These settings must be maintained anew (by user) after upgrade to BCS/4HANA !

Item	25711000		
Name			
Short	,í		
Medium	Thes.JÜ-Vorjahr]
Long	Thes.JÜ - Vorjahre		
Item Other Attributes			
Item			
Entry		Item Type	
Dr/Cr Sign		Balance Sheet	-
✓ Block Posting and Data	a Entry		
Breakdown Category	6000	1	

	Attributes	
Transaction Type Other A	and acco	
ransaction Type		
Entry		
Debit/Credit Sign	+ -	
Block Posting and Data E	intry	
Carryforward, Change to Co	ns Group	
Ede		
	Transaction Type Description	
O and familiard		
Carryforward		
Addition		
Addition		
Addition Acquisition for Org. Change Divestiture		
Addition Acquisition for Org. Change		

BCS/4HANA – Version Dependency of Adjustment of Deferred Taxes

Adjustment of deferred taxes at changes of tax rate

- SEM-BW => dependent on starting time (year, period) => setting in configuration menu UC00
- BCS/4HANA => dependent on starting year and version combination

Automatic migration of existing assignment from UC00 to *all* existing version combinations is performed during regeneration of consolidation area.

At runtime of period initialization, no tax adjustment is posted in fiscal years earlier than the starting year, for the current version combination.

							Performance Assistant		
Workbench: Change Version Com	binations	़ ↔ M ♣ Z ↗ & Ħ ▾ ♥ ♣ M X							
 . 	Consolidation Area JS	Version Number JOS	Restatement	0 💌	Consolidation G	Group	DE UC_DTAX_YEAR_START		
▼ Process View									
Object Name							Short Text		
Data Model							Starting Year for Adjustment of Deferred Taxes		
🝷 📂 Master Data	Version Number	Data Category Consolidation	n Freque Starting	Starting Y Repetitio	n of Task Run	ltem C	d		
✓	100 - Version 100	AC - Actuals a 5 - Monthly	1		ustment of Deferred		Definition		
SophEx - Version Number	200 - Version 200	AC - Actuals 🗈 5 - Monthly	8	2002 Delete O	ld Documents 🗈		Earliest fiscal year in which the function Adjustment of Deferred Taxes is active in the current version		
SophEx - Data Category	JOS - Version JoachimS	AC - Actuals a 5 - Monthly	ā.	3000 Delete O	ld Documents 🗈		combination. As of this starting year, if the tax rate of a certain document type or consolidation unit changes in the current consolidation period compared to the prior period, documents which adjust the		
 E Version Combinations Special Versions 	ĩ	Ð	a		۵		changes in the current consolidation period compared to the prior period, documents which adjust the cumulative values on the balance sheet items for deferred taxes to the new tax rate are posted in tasks of category <i>Period Initialization</i> .		
Check Settings	Ē	Ð	Ē.		۲.				
	Ē	Ē.	Ē	2 2	٦		Dependencies		
Consolidation Units							You can only set the starting year for adjustment of deferred taxes after you have switched on the		
• 🛅 Items							function Adjustment of Deferred Taxes in the settings of the consolidation area.		
Subassignments							×		
 Custom Attributes 									
 Single Selection 									
 Restatement 									

BCS/4HANA – Special Hierarchy Version in Restatement per Fieldname

Assignment of special hierarchy version to restatement values

- SEM-BW => independent of fieldname (for non-initial restatement value)
- BCS/4HANA => separate assignment to restatement and fieldname of characteristics is possible

Automatic migration of existing assignment to restatement values is performed during regeneration of consolidation area, to cover *all* fieldnames of hierarchy-carrying characteristics.

	4		solidation	JS	Data	D	AC		Versior		JOS	-	Consolidation
 Process View 		Area		00	Category	P	10	-	Numbe	r	1003	-	Group
Object Name													
Data Model	*	Versi	ion Combina	tion		AC/	JOS -	Versio	n Joaci	nimS			
 Master Data 	Ŧ	Vers	ion Types				Inher	rit. Spe	cial Ve	rsion [Descriptio	n	
 Dersions 		90	Special Ve	rsion T	ypes								
 SophEx - Data Category 			Account	ng Obj	ect		(în	100				_	
 SophEx - Version Number 		4	Hierarch	y Struc	ture								
 Version Combinations 			v 🗅 0000	00000									
 Decial Versions 			🗋 Da	te			(Da	100					
Definition			C So	phEx -	Company		12	100					
Rules Assign to Combinations					Transaction	Type	(Da	100					
Storage of Additional Financial Data	Ħ				Profit Cente		120	100					
Check Settings	1			phEx -			1	100					
· · ·					y Layout		1	100					
Consolidation Units				oduct G			(C)	100					
Items			Ta:		noup		1	100					
Subassignments			2019				1.10	100					
Custom Attributes		-	D Da				(în	100					
 Single Selection 					Company		1	100	_				
 Restatement 					Transaction	Turno	(Ch	100					
 Consolidation Functions 	٠				Profit Center		1	100					
Consolidation Monitor	٠			phEx -				100					
4 🖡 📖 4 🖡					y Layout		<u></u>	100	_				
Technical View				ta Entr			124 129	100	_				
Tools			D Ta		noup		(B)	100			-		
	_						20	100		_	\sim L		_
Special Versions			2019							<			
Data Categ Version Number		_	⇒ □ 2222										
AC JOS - Version JoachimS			🗋 Da		-		<u>r</u>	100					
					Company	_		JOS					
					Transaction		=	JOS					
					Profit Cente			JOS					
				phEx -			=	JOS					
					y Layout			JOS					
				oduct G	iroup			JOS					
		_	🗋 Ta				=	JOS	3				
		0	Attribute	-									
			Tax Rate	-			<u>B</u>	100					
			Organiza	tional	Change		120	100					

BCS/4HANA – New Reference for "Rolling Forecast" in Restatement

Workbench: Change Restatemen	t 222201201 - 012/2222 1st RSTM	
A A A A	Consolidation JS Data AC Version	JOS Consolidation Profit Center Company Profit
▼ Process View	Area JS Category AC Version Number	JOS Group Group Company Company
Object Name	Ĩ	
Data Model	Restatement 222201201 012/2222 1st RSTM	
🔹 🗁 Master Data	Restatement Other Attributes	
Versions		
Consolidation Units	Restatement	
• 🛄 Items	Restatement Period	
Subassignments	Restatement Period 012.2222	
Custom Attributes		
E Single Selection E Restatement	Validity	
Consolidation Functions	Valid-From Period 001.2222	
Consolidation Punctions	Valid-To Period 012.2222	
Analysis		Use case for "rolling forecast":
	Reference	Use case for Tolling forecast.
		Actual group close in current period
	O Difference to Original Data	
	O Difference to Refererence Data	shall <i>not</i> impact (prospective) forecast
	Reference 0	,
	ONo Reference (independent)	=> New value for reference in restatement
	Ref. to Original Data in prior periods	
	Attributes	
Technical View	✓ No Instant Document Inversion	
Tools	Ĩ	
• 100IS		
▼ Restatement		
Restatement Name		
201800101 001/2018 1st RSTM	-	
201900101 001/2019 1st RSTM		
201900102 003/2018 2nd RSTM		
222201201 012/2222 1st RSTM		
		<u> </u>

BCS/4HANA – Option to Suppress Instantaneous Inversion in Restatement

Workbench: Change Restatement	222201201 - 012/2222 1st RSTM
✓ Process View	Consolidation JS Data Category AC Version JOS Consolidation Group Profit Center Company Profit Center Company Profit Center
Object Name Data Model	Restatement 222201201 012/2222 1st RSTM
 Data Model Master Data 	Restatement Other Attributes
	Restatement Restatement Period Restatement Period Restatement Period 012.2222 Validity Valid-From Period 001.2222 Valid. Valid. From Period 012.2222 Valid. Provide on activate this setting (default setting), when documents are posted in non-initial restatement data slices and the relevant setting is applied for the document type used (Inversion attribute), the system always executes the posting immediately (instantly for the corresponding inverting documents in the following consolidation period. Difference to Original Data Difference to Reference Data Reference Outer Autivation No Reference (independent) C Restatement Sile Dependencies Attributes If you deactivate instant inversion, you need to trigger the inversion of posted documents in this restatement by executing the Period Initialization task in the following consolidation period.
✓ Restatement Image: Constraint of the second se	Option to suppress instantaneous automatic inversion of documents in restatement

BCS/4HANA – Indicator for Adjustment of First Consolidation in Hierarchy

Workbench: Change Consolidation	n Group JO	S1 - J	OS1											
Ø. (=	Consolidation	JS	Data	AC		Version	JOS		onsolidation	•	Profit Center	Co	mpany 🔽 🔻	
▼ Process View	Area	0.5	Category	NC.	-	Number	1003	G	Froup		Group	• 00		
Object Name													Performance As	ssistant 💶 🗖 🗙
Data Model	Consolidation Gr	roup	J0S1											2 1/ 4. 🗉 🕶 🗳 🖆 🖸
 Master Data 	Name													
 Versions 	Short		J0S1										Text	-
 Consolidation Units 	Medium		J0S1										Period of Adjustment of	fFC
 SophEx - Company 			1										Definition	
 SophEx - Profit Center 	Assigned End N	Jode												
 Combinations of Consolidation Units 	Company				6	7	DG	1					Specifies that adjustme	ent of first consolidation is allowed for a specific consolidation group.
 Goodwill-Carrying Consolidation Units 	Company	/						J						specific consolidation group.
 Accounting Techniques 													Use	
Crganizational Change	Attributes										/	·	When the indicator is s	elected for a consolidation unit, the system
Consolidation Groups) B	╔╻┓										will process any data the activity Adjustment of I	nat is reported for first consolidation in an
Download (Bundled)	🗈 Cons Unit N	Name	Yr First Pe	er. First	FCEP	FCIS	Yr of Div. Per.	Div. DA	BP DAIS	DA Due to Mer	ger Inact. CL Adj. FC		activity Adjustment of I	Irst Consolidation.
Items	JOS1_P J	JOS1_P	2018	3			9999	12					Dependencies	
Subassignments Custom Attributes	JOS1_U J	JOS1_U	2018	3			2018	6					The indicator may be s	elected in periods after the first
Custom Attributes Single Selection													consolidation only.	
Single Selection Selection														ne indicator is available only for the primary
Consolidation Functions													matrix dimension.	
Consolidation Monitor														
Analysis														
Technical View Tools Company														
Hierarchies Name														
A H1 test														
	India	ote	r for	س ۸ "	inet	ma	nt of I	Tirot	Cono	alidat	ion"			
		arc	N IOF	AQ	just	me		-irst	Cons	olidat				



BCS/4HANA – Period Status Changes with Selection Screen

In SEM-BW, changes to period status need to be performed manually one-by-one in monitor.

In BCS/4HANA, there is the option for period status changes with selection screen, in workbench.

Workbench: Change of Period Sta	atus
	Consolidation JS Data AC Version JOS Consolidation Profit Center Company
▼ Process View	Area JS Category AC V Number JJOS V Group V Group Company
Object Name	
Data Model	
🕨 🧰 Master Data	Organizational Group
Consolidation Functions	SophEx - Consolidation Group to
🗁 Consolidation Monitor	SophEx - Consolidation Group to Image: Consolidation Group SophEx - Profit Center Group to Image: Consolidation Group
 Task Hierarchy 	
• 🖹 Task Group	Organizational Unit
Preceding Task Relationships	
Gheck Preceding Task Relationships	SophEx - Company to SophEx - Profit Center to
Cutoff Task	
·	Maning Time Company
	Version/Time/Currency
 Delete Logs Status Change 	SophEx - Data Category AC to
Change Period Status	SophEx - Data Category AC to SophEx - Version Number JOS to Restatement Image: Constraint of the second secon
Cleanup Task Status	
Analysis	Fiscal year 2019
,	Posting period 3 to
	Currency Key for Group Currency USD
	Changing Period Status
	Open Period
	Open Cons Groups
	Close Cons Units
	Close Period
	Multiperiod Consolidation
	\checkmark
	Technical Settings
	[v]Test Run



BCS/4HANA – Cleanup of Task Status "Initial" and "Irrelevant"

Upon initial lauching of consolidation monitor, task executability is checked and persisted in status tables

- Task is executable => Task status value 001 ("initial (excutability checked)") is persisted
- Task is not executable => Task status value 090 ("irrelevant") is persisted

Changes to customizing settings may result in changes to task executability. (Example: Change to new local currency key of consolidation unit to be equal to group currency key results in irrelevance of C/T (= currency translation task).)

In SEM-BW it is necessary to explicitly reset the task status after such changes to customizing settings.

In BCS/4HANA, there is the option to cleanup task status values 001 and 090 in consolidation workbench.

Workbench: Recalculate Status																	
✓ Process View	Consolidation Area	JS	Data Category	AC	•	Version Number	JOS	•	Consolidation Group		•	Profit Center Group		•	Company	-	Profit center
Object Name Data Model Master Data	Version	64															
Consolidation Functions Description Functions	SophEx - Dat SophEx - Ver					AC JOS			to to								
E Task Hierarchy E Task Group E Preceding Task Relationships	Restatement Fiscal year					2019]		to								
Geck Preceding Task Relationships G Cutoff Task	Posting perio Currency Key		up Currency		3 USD				to to		<u>₽</u>						
Status Change Gange Period Status																	
Cleanup Task Status Analysis																	

SP'

BCS/4HANA – Simplification Items

Definition of "simplification items"

- Functionality is supported in SEM-BW
- Functionality is supported in different / limited way or not supported at all, in BCS/4HANA

List of "simplification items" (*)

- XBRL support for BCS => See SAP Note 1278989 for SAP strategy for XBRL
- MDG-F (= master data governance, financials) in-bound services for BCS
- BW-IP data entry (in SEM-BW: supported for selected pilot customers only)
- Complex queries (e.g., multiple versions, cell definitions) might need to be refactored (by user)
- Appropriation after I/S (in SEM-BW: setting in consolidation area)
- Accounting technique "Mutual Stock" (in SEM-BW: setting in C/I system utilization)
- C/I activities "Write-up / Amortization of Investment"
- C/I postings stated in KBA 2056048 (in SEM-BW: modifications => in BCS/4HANA: Standard)
- Several C/I settings (in SEM-BW: switches of minor relevance => in BCS/4HANA: Standard, without switches)

^(*) This list might be incomplete and may be changed by SAP at any time without notice.

BW/4HANA – Conversion Scenarios

SAP BW/4HANA conceives 2 conversion scenarios from SAP BW to SAP BW/4HANA (=> see SAP Note 2383530 for details)

- In-place conversion
 - System (including ID) is preserved, i.e., conversion takes place on the existing system
 - Transfer Toolbox converts BW objects from "old" to "new" ones (e.g., InfoCubes and DSO to aDSO)
 - Existing data in BW objects is migrated into "new" InfoProviders
 - => Technical prerequisite for in-place conversion is source system on SAP BW 7.50 SP5 on HANA DB (from perspective of SEM-BCS this corresponds to SEM-BW 7.48 (EHP8))
- Remote conversion
 - Separate (new) installation of SAP BW/4HANA
 - Transport of selected data models and remote data transfer

BCS/4HANA currently only supports in-place conversion (=> see SAP Note 2651241 for details)

BCS/4HANA – Technical Steps for In-Place Conversion

Preparation

- Database migration of SAP BW / SEM-BW system to SAP HANA (if not yet done)
- Upgrade of SAP BW / SEM-BW system to SAP BW 7.50 / SEM-BW 7.48 (EHP8)
- Installation of newest version of software upgrade tool SAINT for Add-Ons
- Copy of BW query definition from virtual info-provider and multi-provider to temporary (empty) aDSO

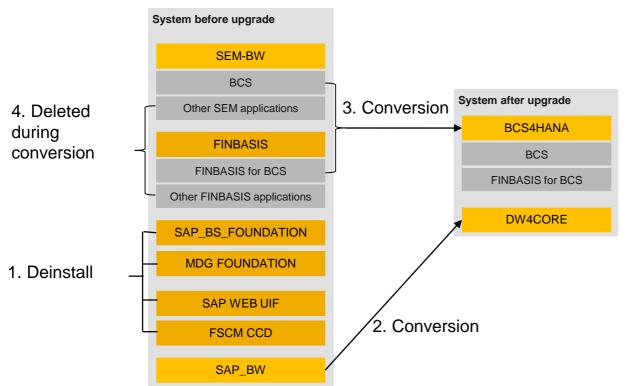
Execution

- BW/4HANA compatibility mode is not supported for BCS => System downtime is necessary
- Conversion of BW objects for BCS to BW/4HANA objects ("ready for conversion" phase)
- Upgrade (SEM-BCS + MDF => BCS/4HANA) and deinstallation (SEM-BPS etc.) of Add-On components

Post-Processing

- Restart of consolidation workbench => Execution of data model synchronization ("change management")
- Save and regenerate all BCS data bases and consolidation areas => BAdI providers are generated
- Copy of BW query definition from temporary (empty) aDSO to BAdI provider
- Maintain the settings for indicators for check for blocked accounts (FS items, transaction types) anew

BCS/4HANA – InPlace Conversion (from SEM-BW + FINBASIS)



During the conversion of the SEM-BW system to BCS4HANA:

- Some software components (e.g. SAP WEB UIF) are de-installed.
- 2. Software component SAP_BW is converted to DW4CORE
- 3. The applications BCS (part of SEM-BW) and MDF (part of FINBASIS) are converted to software component BCS4HANA
- Other applications within SEM-BW (e.g. BPS, CPM) and FINBASIS are deleted.

Thank you.

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