How to Anticipate and Solve the Challenges and Errors Encountered in Financial Data Migration to SAP S/4HANA During a Brown Field

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In This Session

- Lundbeck had expected challenges in data consistency when the company started its preparation to migrate to SAP S/4HANA version 2022. Even after completion of two trial conversions and one sandbox real conversion, including clean-up in the productive system, we are still facing new migration errors, including errors with G/L and asset accounting.
- One of the key learnings from this process is to know when and how to use transactions FINS_MIG_STATUS, FAGLF03 as well as when to use FIN_CORRXXX with G/L and Asset accounting focus.
- Join this session to hear more about the timing of when H. Lundbeck A/S started to deal with data inconsistencies and how they were identified and resolved, both in ECC as a pre-burner clean-up and in the SAP S/4HANA conversion.

Lundbeck Intro

THIS IS LUNDBECK

Our business

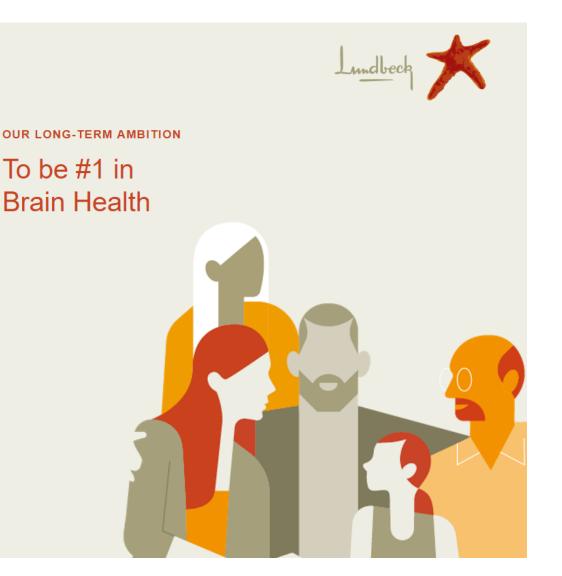
WE ARE

A global pharmaceutical company specialized in discovering and developing innovative treatments for brain diseases

OUR BELIEFS

Patient-driven Courageous Ambitious

Passionate Responsible



Who We Are



Mae Wang

H. Lundbeck A/S Senior Solution Architect

Mae Wang has been working with SAP FI/CO/SD for around 15 years in pharma and shipping industries. She is the senior IT solution architect in Lundbeck for finance application. During the past 10 years in Lundbeck, she has been working with SAP Roll-out worldwide, implementation of product costing, cash management, eDoc, etc. The most recent project is SAP S/4 conversion where Lundbeck is undergoing a brown field conversion from ECC to SAP S/4.



Bo Tarnø

NNIT A/S Consultant

Bo Tarnø has 28 years of experience as SAP Finance SME and Solution architect on various global projects mainly within the Pharmaceutical industry. During the past years, his main focus has been the SAP S/4 brown field conversion at H. Lundbeck A/S.

AGENDA

- Setting the scene: Our landscape
- How to prepare your system using SAP Readiness Check including Financial Data Quality Check.
- When to run financial data quality checks (Trial 1, Trial 2, actual conversion) in ECC.
- What are the most frequent errors and where to look for solutions.
- Wrap Up

Setting the Scene: Our Landscape



Lundbeck Intro

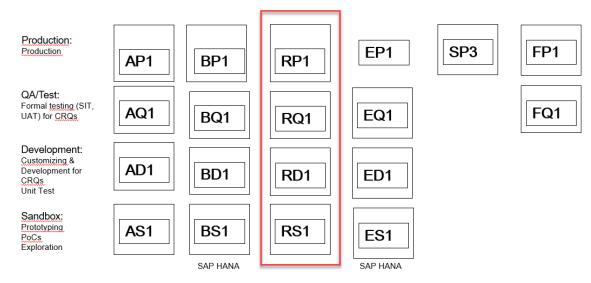
- 60~ company codes, 50~ countries.
- Data going back from 2003, New G/L activated in 2008, together with the implementation of New Asset Accounting recently in ECC in 2022.
- Until now we have never archived data and are not planning to.



Lundbeck's SAP S/4HANA Journey and System Landscape

- Cycle 0 1st Trial conversions Sandbox 2
- Cycle 1 2nd Trial conversions Sandbox 1
- Cycle 2 Real Sandbox system conversion
- Cycle 3 Development system conversion
- Cycle 4 Test/QA system conversion
- Cycle 5 Production system conversion

Windows + MS SQL / HANA





Background:

Our system landscape and solution is lean and close to SAP standard but even then, we have been experiencing many data inconsistencies during the analysis and Trial conversions.

 \rightarrow The purpose of performing the Financial data quality check is therefore to ensure as smooth as possible transition to SAP S/4 both during the conversion but also for the subsequent process execution in SAP S/4.

One of the big questions is when to start preparing your data for the conversion to SAP S/4 HANA – the short answer is: **Now** !

Lundbeck has spent two years preparing the SAP system landscape for the SAP S/4 HANA conversion. This includes both mandatory and optional clean-up tasks.

The original landscape dates back to 2002 and it was hence decided to use the migration project as an opportunity also to clean up old inconsistencies in the solution. This has involved a large cooperation between IT and Line of Business.

The investment is however paying off and the number of errors and warnings have been reduced significantly

How to get started:

A good starting point is to run the SAP Readiness check on the productive system or a copy of this. This provides a good overview over the current status.

The two key overviews from a finance point of view are:

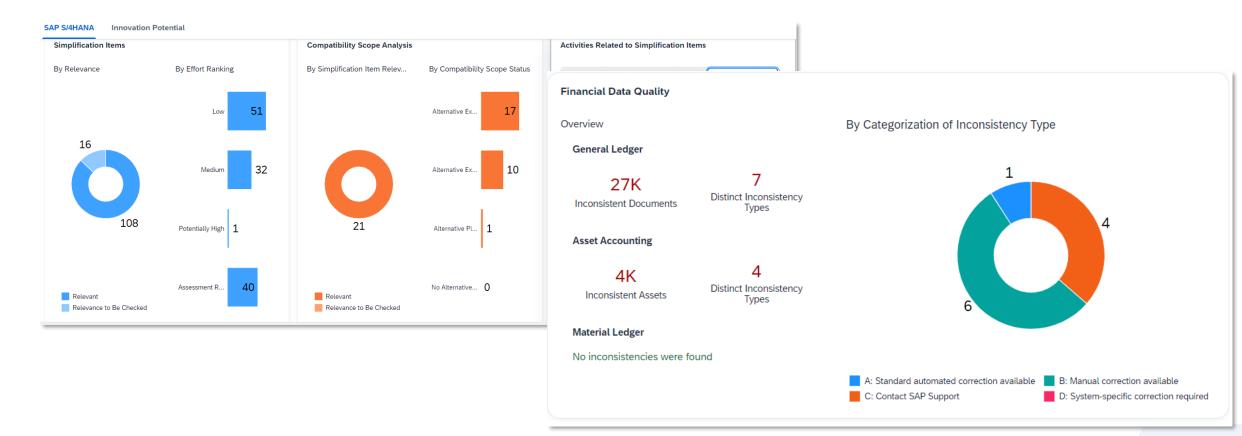
- Simplification list
- Financial data quality

The Simplification list contains important information on the transition itself but is outside the scope of this presentation. The following slides will focus on the Financial data quality

The starting point in 2021 was a list of 1.3 M inconsistencies in financial documents.

P S/4HANA Innovation Potential		
Planned Downtime Calculator Conversion Phases and Durations Insufficient Number of Related References The planned business downtime cannot be calculated at this time, as there are no closely	Financial Data Quality Overview Bi General Ledger	y Categorization of Inconsistency Type
matching customer references in our database.	1.3M 6 Inconsistent Documents Distinct Inconsistency Types	2
SAP ERP Database: MSSQL Data Volume: 4435 GB	Asset Accounting No Data Submitted for Analysis	
Financial Data Records to Be Converted: 297M	Please follow the steps in SAP Note 2972792 to collect and submit the required data. Material Ledger	3
Since the number of references is rapidly growing, please choose <i>Refresh</i> to check if a calculation is possible at a later point in time. Updated 2 years ago	No Data Submitted for Analysis Please follow the steps in SAP Note 2972792 to collect and submit the required data.	A: Standard automated correction available B: Manual correction available C: Contact SAP Support D: System-specific correction required
Recommended SAP Fiori Apps		SAP Innovative Business Solutions

Following the clean-up activities the number of inconsistent documents has been reduced to 27 K. This is expected to decrease in the following conversion



The readiness check provides a wide range of useful details within data quality.

Financial Data Quality Analysis: RS1 2023-03-07			Learn More		
General Ledger - Total Number of Inconsistent Documents:	Asset Accounting - Total Number of Inconsistent Assets:	Material Ledger - Total Number of Inconsistent Material Ledger Items:		—	
26,591	4,041	0			
General Ledger 💙 Asset Acco	ounting 🌱 Material Ledger 💙	^ X			G
General Information				Number of consistencies Category	Category Description
General Ledger Architecture New GL	Parallel Accounting: Ledger Approach	Analysis Start Date 3/7/2023		22K A	Standard automated correction available - SAP Note 2956096
				1.3K B	Manual correction instructions available - SAP Knowledge Base Article 2714344
Inconsistencies				1.3K B	Manual correction instructions available - SAP Knowledge Base Article 2714344
Fiscal Year: All Fiscal Years	Company Code: All Company Codes 	Category: ✓ All Categories	~	1.3K B	Manual correction instructions available - SAP Knowledge Base Article 2714344
0130		5/3	FIN_FD_RECON BSEG_ADD &2 &3	786 C	Please contact SAP Support
0131 0134 0140		578	FIN_FB_RECON Open item flag in BSEG differs from open item flag in SKB1 &2 &3	270 B	Manual correction instructions available - SAP Knowledge Base Article 2714344
0146 0148		398	FIN_FB_RECON Second local currency &2 in BKPF inconsistent (should be &3)	72 C	Please contact SAP Support
0153 0158		For more informati	ion and recommendations on FIN_CORR_RECONCILE error messages, see SAP Knowledge	Base Article 2714344.	
0167 0168					
0172 0180					
B100 2021 2020 20	019 2017 2016 201	15 2014 2013 2013	L2 2011 2010 2009 2008 2007 2003	2002	

This level of detail brings us to the operational level of data cleansing and reconciliation. They key report for this is the program FIN_CORR_RECONCILE.

This report provides the details at company code / document level of the technical errors and categorizes them after severity.

Note: Please have a look at the OSS note: 3053181 - Master note for FIN_CORR_RECONCILE for further details.

When to run financial data quality checks (Trial 1, Trial 2, Actual conversion) in ECC



When to run financial data quality checks (Trial 1, Trial 2, Actual conversion) in ECC

- The financial data quality checks within the Readiness report and the associated reconciliation programs have to be executed for each S/4 conversion, in ECC.
- Lundbeck have executed these in connection with:
 - 1. Trial conversion
 - 2. Trial conversion
 - Actual conversion (Sandbox, development, Quality and Production)
- For each of the conversion the number of remaining inconsistencies has been monitored
- Note: The original trial conversions were on a different S/4 version than the final one. This has also led to new errors that had to be considered and resolved. Further has the Simplification items list been improved and more types of errors have been included

What to run in trial 1, trial 2, actual conversion, in ECC

- The FIN_CORR_RECONCILE report is key in identifying and resolving the key errors that would otherwise be identified during the financial data migration
- Transaction: FINS_MIG_STATUS is key during the financial data migration but it can also be used for error identification, analysis and resolution during the (Trial) conversions
- Note: The report: FAGLF03 useful for transactional analysis following New G/L migration

What to run in trial 1, trial 2, actual conversion, in ECC

CoCd 0114: Check Fields of NewGL vs. BSEG started at 12:16:21 and ended at 12:16:25

0114 803000000 2009 070: Open item flag in SKB1 differs from open item flag in BSEG_ADD 0014000100

0114 8030000000 2009 069: Open item flag in SKB1 differs from open item flag in BSEG ADD 0014000100

👅 0114 8030000000 2009 059: Open item flag in SKB1 differs from open item flag in BSEG ADD 0014200200

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Next Step Activity Id	Activity	Status Proc. Sta	us Current Date		¤ Net Time	Act. Jobs C	Complet	- , , , , ,							
GCC	Check Consistency of G/L Accounts and Cost Elements	Finished	25.04.2023	0:00	0:00		10								
GCM	G/L Account and Cost Element Merge	Finished	25.04.2023	0:00	0:00		10								
DAA	Default Assignment for Cost Elements	Finished	25.04.2023	0:00	0:00		10		Show technical details						
<u>R21</u>	Reconciliation of Transactional Data	000	nd 02.05.2023	0:05	0:05		10	Client	Run ID ETC Proc. Step		Unfinished Finished V	Warn. Msg			Not Acc
ENR	Enrich Transactional Data	COL Finished	02.05.2023	0:24	0:24		10	700 Kellesil ol KP1 2022.00.1		Issues found			5.755	5.755	
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<u>R22</u>				0:01					REC_1_AA	Finished	0 412		12.557	4.020	7.93
<u>CUM</u>	Data Migration into Unified Journal: Line Items	Finished	02.05.2023	1:03	1:03		10	▶ ₩○○ GL - Reconciliation	REC_1_GL	Issues found	0 1.181		1.476	1.390	8
<u>R23</u>	Check Migration of Journal Entry	Issues for	nd 02.05.2023	0:17	0:17		_ <	• COB REC_1_JVA	REC_1_JVA	Finished	0 1		1	1.000	
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The errors that are not resolved from the FIN_CORR_RECONCILE report will appear during the finance migration in S/4 (transaction: FINS_MIG_STATUS)

516 FINS RECON

579 FINS_RECON

579 FINS RECON

579 FINS RECON

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11:10:57

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What are the most frequent errors and where to look for solutions



General Observations

- Many tickets were raised to SAP OSS for each type of error(s)
- Focus of this session is the errors that cannot be solved from standard OSS notes

- Historical data before/related to New G/L can cause inconsistency errors
- Historical manual activation of local ledger 1L can cause inconsistency errors
- Historical currency change/add in local ledger can cause inconsistency errors
- The most challenging errors ending up in SAP making customized programs
- New Asset accounting which was implemented as pre-burner led to Data Clean-up Pre-burner tasks to solve errors in ECC production system.
- Any Transformation/Reorganization SLO-type(SAP landscape transformation) conversion must be done prior to migration/conversion to SAP S/4HANA

Error related to Historical data before New G/L activation

FAGLF03 (TFC COMPARE VZ)	Current Date	Time	CoCd	DocumentNo	Year	Description
	09.08.2023	11:11:36	0100	100000000	2005	Document Not Posted to Any Ledger
Scenario: Documents posted	09.08.2023	11:14:51	0100	10000001	2005	Document Not Posted to Any Ledger
beenand: Boeaments postea	09.08.2023	11:09:55	0100	10000002	2005	Document Not Posted to Any Ledger
before new G/L	09.08.2023	11:13:22	0100	10000003	2005	Document Not Posted to Any Ledger
Delore new O/L	09.08.2023	11:07:58	0100	100000004	2005	Document Not Posted to Any Ledger
	09.08.2023	11:11:41	0100	100000005	2005	Ledger OL Currency Field DMBE2 Line Item 001 In Entry View But Not in General Ledger View
	09.08.2023	11:11:41	0100	10000005	2005	Ledger OL Currency Field DMBTR Line Item 001 In Entry View But Not in General Ledger View
	09.08.2023	11:11:41	0100	10000005	2005	Ledger 2L Currency Field DMBE2 Line Item 001 In Entry View But Not in General Ledger View
SAP's answer was:	09.08.2023	11:11:41	0100	100000005	2005	Ledger 2L Currency Field DMBTR Line Item 001 In Entry View But Not in General Ledger View

 Docs before New GL (2008) are classic GL postings and can be ignored as the error is misleading and incorrect

Conclusion \rightarrow Since these errors were all before 2008 we accepted (ignored) during migration.

WHY:

TFC_COMPARE_VZ is used to check the data relevant of New GL. In your scenario, the New GL migration was in 2008 and if you check the data prior to 2008 which would not have any New GL entries then system would provide the error for missing New GL entries for those years. So, executing the above tool for periods/years before New GL activation is not relevant.

FIN_CORR_RECONCILE related errors

- The following errors are all identified using the reconciliation report: FIN_CORR_RECONCILE.
- The report can correct many errors but the following ones could not be automatically resolved by the program or OSS notes.
- Below we will show errors from the scenarios you may also experience:
 - For some of them, we have accepted the error, based on discussions via OSS tickets.
 - For some of them, we have contacted SAP for a consultancy service to fix.

Error related to G/L change to Open Item Managed, or not

Scenario: the G/L master data setting has been changed from Line item management to Open item managed, without taking care of historical documents back then.

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Run	CoCode	DocumentNo	Year	Itm	DocumentNo L	Ld L	nItm G/L Acc	Message Class	Msg.no.	Msg.typ	Message text	Field	Old V
0009	0100	8040001526	2013	1			22200500	FIN_FB_RECON	579	E	Open item flag in SKB1 differs from open item flag in BSEG_ADD 0022200500		
0009	0100	8040001526	2013	2			22200500	FIN_FB_RECON	579	E	Open item flag in SKB1 differs from open item flag in BSEG_ADD 0022200500		
0009	0100	8040001527	2013	1			22200500	FIN_FB_RECON	579	E	Open item flag in SKB1 differs from open item flag in BSEG_ADD 0022200500		
0009	0100	8040001527	2013	2			22200500	FIN_FB_RECON	579	E	Open item flag in SKB1 differs from open item flag in BSEG_ADD 0022200500		
0009	0100	8040001528	2013	1			22200500	FIN_FB_RECON	579	E	Open item flag in SKB1 differs from open item flag in BSEG_ADD 0022200500		
0000	0100	8040001528	2013	2			22200500	FIN_FB_RECON	579	E	Open item flag in SKB1 differs from open item flag in BSEG ADD 0022200500		

• The fin_corr program is highlighting that BSEG_ADD entries exist on open item managed accounts and raise the error.

Conclusion: we accept these errors during migration and proceed with further process. But, SAP consultancy can fix it.

Error related to G/L change to Open Item Managed, or not

WHY

- BSEG_ADD table is a table for non leading ledgers. There were postings when G/L was Line Item Manged in non-leading ledgers. Later on, G/L was changed to Open Item Manged.
- It is not allowed to manage account as open item for non leading ledger .
- SAP does not perform any correction in such case where documents were already posted in non leading ledger and later account was changed as open item managed.

Errors related to Year-End Postings

FINS_RECON81: Entry of table BSIS_BCK does not exist in view BSIS

Scenario: Year-end related documents.

There are documents found in tables BKPF/BSEG and BSIS_BCK but not in table BSIS. According to Note 2714344 - we should contact SAP

Conclusion: Accept the error

WHY: As the related documents are posted with AWTYP = 'GLYEC'/ posting with GLVOR = GLYC (year end postings). Those documents should never be posted to BSIS but in BSEG only. This means the error is shown as your origin documents were inconsistent, but the issues will be fixed within the migration. This means you can accept this kind of error and proceed with the migration. This will not create any follow errors neither in migration process nor in any business transaction in S/4 system.

Errors related to manual activation of local ledger without migration project

Error:

FIN_FB_RECON 72: No entry in FAGLFLEXA for this line item of BSEG (Ledger) missing entries in ledger 1L/2L in old fiscal years

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-									
Run	CoCode	DocumentNo	Year	Itm	G/L Acc	Message Class	Msg.no.	Msg.typ	Message text
50001	0105	<u>100000000</u>	2007	1	<u>19994000</u>	FIN_FB_RECON	72	E	No entry in FAGLFLEXA for this line item of BSEG (Ledger)
50001	0105	100000000	2007	2	25304601	FIN_FB_RECON	72	E	No entry in FAGLFLEXA for this line item of BSEG (Ledger)
50001	0105	100000000	2008	1	25400500	FIN_FB_RECON	72	E	No entry in FAGLFLEXA for this line item of BSEG (Ledger
50001	0105	100000000	2008	2	25400500	FIN_FB_RECON	72	E	No entry in FAGLFLEXA for this line item of BSEG (Ledger
50001	0105	100000000	2009	1	14006000	FIN_FB_RECON	72	E	No entry in FAGLFLEXA for this line item of BSEG (Ledger
50001	0105	10000000	2009	2	14006000	FIN_FB_RECON	72	E	No entry in FAGLFLEXA for this line item of BSEG (Ledger
50001	0105	100000000	2009	3	14006000	FIN_FB_RECON	72	E	No entry in FAGLFLEXA for this line item of BSEG (Ledger
50001	0105	10000000	2009	4	51232500	FIN_FB_RECON	72	E	No entry in FAGLFLEXA for this line item of BSEG (Ledger
50001	0105	10000000	2009	5	51230000	FIN_FB_RECON	72	E	No entry in FAGLFLEXA for this line item of BSEG (Ledger

Scenario:

Local ledgers were created for a company code, without a full migration project

It was introduced in period 4 2013, after new GL (2008).

The company code have defined an additional local currency 3 (CURTP '40', USD) that is updated only in the leading ledger but not in the ledgers 1L and 2L. Thus, exchange rate differences items that do only contain amounts in LC3 are written only to the leading ledger.

Fix via SAP consultancy service

• Firstly, to implement these two notes:

- 3169173 FIN_CORR_RECONCILE: FIN_FB_RECON 72, 73, 74, 75, 76
- 2976366 FIN_CORR_RECONCILE: FIN_FB_RECON 72, 73 does not consider the currency customizing of ledgers

Then, SAP had to create tailor made reports/tools to take care of below, via a consultancy service which did the following:

- Define an opening balance, using other local ledger 2L as opening balance (reference)
- Generate ledger 1L records for all fiscal years, totaling up to 152,048 entries
- \circ Copy the balance carried from forward New GL activation year from leading ledger OL.
- $\circ~$ Take care of phase 0 (anything before New GL activation year) items
- \circ Creation of open items from prior to the migration date (Fiscal year < New GL activation year)
- Using the standard transaction GLGCU1 for subsequently generating G/L views for documents without local ledger 1L/2L postings
- Repeated the balance carry forward for the ledgers 1L and 2L from New GL activation year up to current using the standard transaction FAGLGVTR

New Asset Accounting

- The Trial conversion showed that the asset accounting area at Lundbeck was the most complex and time-consuming area to migrate and it was therefore recommended to convert the asset module before the final conversion to reduce time, complexity and risk of this.
- New Asset Accounting was implemented as pre-burner in ECC in 2022.
- New depreciation areas and currencies were introduced as a result.
- However, there are side effects on the S/4 data conversion. E.g. former Asset go-live data migration directly into G/L is considered error because they were without asset master data integration.
- Use analysis program FINS_MIG_AA_CHECK_RC45 to analyze error messages in detail

Fix for New Asset Accounting related errors

 New depreciation areas added from NAA caused problems for retired assets due to missing depreciation area

→ Needed to add by running program AFBN, ZRACORR05_ZERO before the data migration. The program created the missing depreciation areas and corrected the values in tables. It did however skip retired asset so they were missing depreciation area.

• Exchange rates causing errors for new depreciation areas in group (foreign) currency, exchange rate difference caused ANLC mismatched

→ Accept the error. Reconciliation during go-live, that local ledger balance wasn't aligned with leading ledger.

- G/L postings on Asset reconciliation accounts without asset \rightarrow Accepted the error.
- Run report: ABST2 as preparation activity before conversion. It shows the differences between GL and fixed asset module, all currencies.

Fix for errors from New Asset Accounting

Transaction AFBN does not create the new depreciation areas for Asset under Construction (IO's):
 → Run ZZAFANEW1_600 to create new depreciation areas for AuC

SAP Note 317806 - RAFABNEW: No new depreciation area for investment me	SAP Note 317806 - RAFABNEW: No new depreciation area for investment me
Automatic Opening of a New Depreciation Area	SAP Note 317806 - RAFABNEW: No new depreciation area for investment me
Company Code	
XBUKRS 0112 to 🕏	*** Update! ***
	ANLE-record created: 0112 161120000073 0 07 ZIWA
Asset Main Number	ANLC-record created: 0112 161120000073 0 07 2021
XANLN1 161120000073 to 🗭	ANLC-record created: 0112 161120000073 0 07 2022
Asset Sub Number	ANEP-record created: 0112 161120000073 0 07 2021 510779
XANLN2 to 🔊	ANEP-record created: 0112 161120000073 0 07 2021 510780
	ANEP-record created: 0112 161120000073 0 07 2021 510781
	ANEP-record created: 0112 161120000073 0 07 2021 510782
Source Depreciation Area	ANEP-record created: 0112 161120000073 0 07 2021 510783
XAFABE 31	ANEP-record created: 0112 161120000073 0 07 2021 510784
New (target) Depreciation Area	ANEP-record created: 0112 161120000073 0 07 2021 510785
YAFABE 7	ANEP-record created: 0112 161120000073 0 07 2021 510786
Asset Explorer	COEPBR-record created: 1000 112445452 07 2.752.130,81 OR161120000073
	COEFBR-record created: 1000 112445454 07 181.750,56 0R161120000073
	COEPBR-record created: 1000 112445456 07 2.933.881,37- 0R161120000073
Asset 0112-361120000073/0000 Company Code 0112	COEPBR-record created: 1000 112445458 07 3.398.744,72 OR161120000073
C G Depresiation Areas	COEPBR-record created: 1000 112445458 07 3.398.744,72 OR161120000073
C a ful droup Leader •	COEPBR-record created: 1000 112445465 07 2.933.881,37 OR161120000073
1 Consolidated balance sheet Facal year 1 2022 9	COEPBR-record created: 1000 112445467 07 2.933.881,37- 0R161120000073
" I i Local Lesign:	AUAI-record created: OR161120000073 510779 07 2.752.130,81
G 5 Incal depreciation Gol Local depreciation Data Revold solutes Perted values Corpurators	AUAI-record created: OR161120000073 510780 07 181.750,56
1 07 Local dependation in group	AUAI-record created: OR161120000073 510781 07 2.933.881,37-
2 21 Tax Leight Control Contro	AUAI-record created: OR161120000073 510782 07 3.398.744,72
Ug 15 tax balance meet Ug 14 tax depreciations belta . Planned values Local depreciation in group currency	AUAI-record created: OR161120000073 510783 07 3.398.744,72-
17 Tax balance elsers to group - Value Face year start (Dange Year end/Dry Kx	AUAI-record created: OR161120000073 510784 07 3.398.744,72
	AUAI-record created: OR161120000073 510785 07 2.933.881,37
Objects neited to asset Acqueeter A	AUAI-record created: OR161120000073 510786 07 2.933.881,37-
W RAD labe 1000 112042 Unplaned dep. KX	
G GL Account Write-up Write-up KX Write-up KX Value adjustment KX	
S Lo-FI RAD Cap, within the yes (6112000007 Down payments Dee	
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Dat Proc. day sub 1990 132 No patings for selected focal year	

2 RQ1 (4) 700 2

Wrap up



Where to Find More Information

- 2714344 Financial data migration to SAP S/4HANA: Most frequent Error Messages Information and Recommendations
- 2913617 SAP Readiness Check for SAP S/4HANA
- 2972792 Financial Data Quality
- <u>https://blogs.sap.com/2020/10/06/finance-consistency-checks-fin_corr_monitor/</u>

Key Points to Take Home

- Data consistency analysis/correction takes time and often ends up as clean-up pre-burner activities in the project plan.
- Perform it as early/often as possible in trial conversions to detect the activities so no surprise in real conversion.
- Any Transformation/Reorganization SLO-type(SAP landscape transformation) conversion must be done prior to migration/conversion to SAP S/4HANA.
- Be-aware of old postings before New G/L activation.
- Be-aware of activation of local ledgers scenario.

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Please remember to complete your session evaluation.

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