


CNV-9020 GL Line Items (BS - Withholding Tax)

Status	
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Purpose

The purpose of this document is to define the conversion approach to migrate unposted legacy withholding tax (WHT) in S/4 HANA.

In general, WHT could be posted at the point of payment or at the point of invoice.

The scope for this CNV 9020 is to cover AP and AR open items where WHT is posted at the point of payment.

Illustration:

Invoice below has been posted in ECC.

```
Dr. Expense 1000
Dr. VAT      100
  Cr. Vendor 1100
```

The objective for this object is to store the WHT information in the table so when posting payment in S/4, system is able to calculate and post WHT correctly as below:

```
Dr. Vendor 1100
  Cr. WHT   10
  Cr. Bank 1090
```

Conversion Scope

The scope of this document covers the approach for converting unposted withholding tax items with AP / AR open items from Legacy Source Systems into S/4HANA.

There are 2 group go-live as below:

- Group 1 go-live (1 July 2028) (System PF2)
- Group 2 go-live (1 Jan 2029) (System WP2)

Note: There is possibility to shift into 1 go live date, this option is currently still being considered.

The data from legacy system includes:

1. withholding tax items related to AP normal open item/AP special GL open items as per object # 9006/9007, that are in withholding tax mapping table.
2. withholding tax items related to AR normal open item /AR special GL open items as per object # 9008/9009, that are in withholding tax mapping table

These withholding taxes migrated to S4 are expected to be posted during payment clearing.

The data from legacy system excludes:

1. withholding tax items that are not mapped due to invoice level posting in legacy (avoid double posting)

Relevancy rule :

- Initial extract all documents from WITH_ITEM for mapped withholding tax codes mapped in [link](#) with fiscal year =< 2 years from migration cutoff date (note the 2 years is to avoid extracting all history years which are not relevant to AP or AR scope)
- refer to relevant data extracted from object # 9006/9007/9008/9009 (document number, fiscal year, company code)
- filter for same document number + fiscal year + company code + wtax type + wtax code from WITH_ITEM table initial extracts

List of source systems and approximate number of records

Source	Scope	Source Approx No. of Records	Target System	Target Approx No. of Records
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PF2	withholding tax items of AP / AR open items	1000	S4	1000
WP2	withholding tax items of AP / AR open items	1000	S4	1000
PI2	withholding tax items of AP / AR open items	10000	S4	10000

Scope of the migration is based on withholding tax linked to migrated AP OPEN ITEMS (9006), AP SPECIAL GL OPEN ITEMS (9007), AR OPEN ITEMS (9008) and AR SPECIAL GL OPEN ITEMS (9009), which have not been posted during legacy open item posting. The withholding tax codes will be mapped in a table ([link](#)). If such withholding tax codes are part of the AP/AR objects scope ie same document number/year/company code combination, the respective WITH_ITEM data will be extracted for migration together with each object. There will be no withholding tax posting /line item since it was not posted in legacy yet.

All currencies will be loaded accordingly unless there is a change in company design where local / group currency changes. Rates are as per the historical postings unless specific requirement calls for a fixed rate eg. group currency rate for consolidation purposes.

Offsetting gl account is respective migration account for AP, AR migration objects (refer [link](#)).

There will be no migration of unmapped withholding tax codes ie. history of posted withholding tax will remain in legacy system and will not be posted again in S4. Current year withholding tax reports will be a combination of legacy system data and S4 system data after go-live.

Additional Information

Multi-language Requirement

N/A

Document Management

N/A

Legal Requirement

N/A

Special Requirements

Due to compliance requirement, there will be 3 SAP instances as below:

- SAP instance for Rest of the World (ROW)
- SAP instance for China
- SAP instance for CUI

Withholding data will be migrated to respective SAP instances based on the company codes. Please refer to column "Company Code" and "Instance" in [Enterprise Structure Catalog - Google Sheets](#) (worksheet 10. Company code),

Target Design

The technical design of the target for this conversion approach.

Table	Field	Field Description	Data type	Length (Decimals)	Requirement
WITH_ITEM	BUKRS	Company Code	CHAR	4	Mandatory
WITH_ITEM	BELNR	Document Number	CHAR	10	Mandatory
WITH_ITEM	GJAHR	Fiscal Year	NUMC	4	Mandatory
WITH_ITEM	BUZEI / DOCLN	Line item	NUMC	3	Mandatory
BSIK/BSAK/ BSID/BSAD	LIFNR / KUNNR	Vendor / Customer	CHAR	10	Mandatory
WITH_ITEM	WITHT	Withholding tax type	CHAR	2	Mandatory

WITH_ITEM	WT_WITHCD	Withholding tax code	CHAR	2	Mandatory
WITH_ITEM	WT_QSSH	W/tax base amnt in LC	CURR	15(2)	Mandatory
WITH_ITEM	WT_QSSHB	W/tax base amount DC	CURR	15(2)	Mandatory
WITH_ITEM	WT_QSSH2	W/tax base amount LC2	CURR	15(2)	Optional
WITH_ITEM	WT_QSSH3	W/tax base amount LC3	CURR	15(2)	Optional
WITH_ITEM	WT_BASMAN	W/tax bse amnt entered man.	CHAR	1	Mandatory
WITH_ITEM	WT_QBSHH	Withholding tax amnt LC	CURR	15(2)	Mandatory
WITH_ITEM	WT_QBSHB	Withholding tax amnt DC	CURR	15(2)	Mandatory
WITH_ITEM	WT_QBSH2	Withholding tax amnt LC2	CURR	15(2)	Optional
WITH_ITEM	WT_QBSH3	Withholding tax amnt LC3	CURR	15(2)	Optional
WITH_ITEM	WT_AMNMAN	W/tax amount entered manually	CHAR	1	Mandatory
WITH_ITEM	WT_QSFHH	W/tax exempt amount in LC	CURR	15(2)	Optional
WITH_ITEM	WT_QSFHB	W/tax exempt amount in DC	CURR	15(2)	Optional
WITH_ITEM	WT_QSFH2	W/tax exempt amount in LC2	CURR	15(2)	Optional
WITH_ITEM	WT_QSFH3	W/tax exempt amount in LC3	CURR	15(2)	Optional

Data Cleansing

ID	Criticality	Error Message/Report Description	Rule	Output	Source System
N/A					

Conversion Process

The high-level process is represented by the diagram below:

The high-level process is as follows :

1. Extract from legacy systems
2. Transformation : Based on dependent objects (Open AP / AR) , check if wtax codes are mapped in mapping tables. If matched, the respective load data will be generated to respective load file outputs to be combined into respective OPEN AP / AR load files
3. Load process will be performed in respective OPEN AP / AR objects via respective tool eg. LTMC
4. There is no loading for this object on its own

Data Privacy and Sensitivity

Extraction

Extract data from a source into Syniti. There are 2 possibilities:

1. The data exists. Syniti connects to the source and loads the data into Syniti.

The agreed Relevancy criteria is applied to the extracted records to identify the records that are applicable for the Target loads

Extraction Run Sheet

Req #	Requirement description	Team responsible
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1.	Ensure source table WITH_ITEM is extracted according to the agreed cut-off date in the project plan	Data team
2.	Perform preliminary completeness check	Data team
3.	Raise issues as defects if Req # 1 to 3 are not met	Data team
4.	Repeat Req # 1 to 4 if required	Data team
5.	Report extraction result to person in charge of conversion	Data team

Selection Screen

Selection Ref Screen	Parameter Name	Selection Type	Requirement	Value to be entered/set

Data Collection Template (DCT)

DCT will not be required since Syniti will extract legacy data from 3 legacy systems WP2, PF2 and PI2.

Extraction Dependencies

Item #	Step description	Team responsible
1.	Any period / year end close activities have been fully completed	Business
2.	Finance closing is completed and reconciled	Business

Transformation

The Target fields are mapped to the applicable Legacy field that will be its source, this is a 3-way activity involving the Business, Functional team and Data team. This identifies the transformation activity required to allow Syniti to make the data Target ready:

1. Perform value mapping and data transformation rules.
 - a. Legacy values are mapped to the to-be values (this could include a default value)
 - b. Values are transformed according to the rules defined in Syniti
2. Prepare target-ready data in the structure and format that is required for loading via prescribed Load Tool. This step also produces the load data ready for business to perform Pre-load Data Validation

Transformation Run Sheet

Item #	Step description	Team responsible
1.	Ensure all the fields that require value mapping, are completed. Mapping tables have the latest signed-off mapping files imported into ETL Tool.	Data team
2.	In tool, select the AP / AR Open Items object.	Data team
3.	Go to Process Area Launch and Process the Object - AP / AR Open Items .	Data team
4.	Launch the Objects to execute transformation.	Data team

11	Legacy	WI TH _IT EM	WT_ QSS H3	W/tax base amount LC3	S /4H ANA	WI TH _IT EM	WT_ QSS H3	W/tax base amount LC3	<p>Automatically converted during posting</p> <p>This is for currency type 31 (Global currency / Group currency)</p> <p>Note: Currently, legacy does not have group currency amount, the plan is let exchange rate to populate this.</p> <p>Very Important point to be noted here - take the relevant exchange rate from the exchange rate table (refer to CNV -9013 TB CY (0L - IFRS = 31 GC Val Ledger) Monthly Movement exchange rate DCT section) based on the cut-over date (Period + Year) for this object (9010 - GL Open items)</p>
12	Legacy	WI TH _IT EM	WT_ BAS MAN	W/tax bse amnt entered man.	S /4H ANA	WI TH _IT EM	WT_ BAS MAN	W/tax bse amnt entered man.	Default X
13	Legacy	WI TH _IT EM	WT_ QBS HH	Withholdin g tax amnt LC	S /4H ANA	WI TH _IT EM	WT_ QBS HH	Withholdin g tax amnt LC	Copy source value
14	Legacy	WI TH _IT EM	WT_ QBS HB	W/tax amount in DC	S /4H ANA	WI TH _IT EM	WT_ QBS HB	W/tax amount in DC	Copy source value
15	Legacy	WI TH _IT EM	WT_ QBS H2	Withholdin g tax amnt LC2	S /4H ANA	WI TH _IT EM	WT_ QBS H2	Withholdin g tax amnt LC2	<p>Automatically converted during posting</p> <p>This is for currency type 30 (Global currency / Group currency)</p> <p>Note: Currently, legacy does not have group currency amount, the plan is let exchange rate to populate this.</p> <p>Very Important point to be noted here - take the relevant exchange rate from the exchange rate table (refer to CNV -9013 TB CY (0L - IFRS = 31 GC Val Ledger) Monthly Movement exchange rate DCT section) based on the cut-over date (Period + Year) for this object (9010 - GL Open items)</p>
16	Legacy	WI TH _IT EM	WT_ QBS H3	Withholdin g tax amnt LC3	S /4H ANA	WI TH _IT EM	WT_ QBS H3	Withholdin g tax amnt LC3	<p>Automatically converted during posting</p> <p>This is for currency type 31 (Global currency / Group currency)</p> <p>Note: Currently, legacy does not have group currency amount, the plan is let exchange rate to populate this.</p> <p>Very Important point to be noted here - take the relevant exchange rate from the exchange rate table (refer to CNV -9013 TB CY (0L - IFRS = 31 GC Val Ledger) Monthly Movement exchange rate DCT section) based on the cut-over date (Period + Year) for this object (9010 - GL Open items)</p>
17	Legacy	WI TH _IT EM	WT_ AMN MAN	W/tax amount entered manually	S /4H ANA	WI TH _IT EM	WT_ AMN MAN	W/tax amount entered manually	Default X
18	Legacy	WI TH _IT EM	WT_ QSF HH	W/tax exempt amount in LC	S /4H ANA	WI TH _IT EM	WT_ QSF HH	W/tax exempt amount in LC	Copy source value
19	Legacy	WI TH _IT EM	WT_ QSF HB	W/tax exempt amount in DC	S /4H ANA	WI TH _IT EM	WT_ QSF HB	W/tax exempt amount in DC	Copy source value
	Legacy	WI TH _IT EM	WT_ QSF H2	W/tax exempt amount in LC2	S /4H ANA	WI TH _IT EM	WT_ QSF H2	W/tax exempt amount in LC2	<p>Automatically converted during posting</p> <p>This is for currency type 30 (Global currency / Group currency)</p> <p>Note: Currently, legacy does not have group currency amount, the plan is let exchange rate to populate this.</p> <p>Very Important point to be noted here - take the relevant exchange rate from the exchange rate table (refer to CNV -9013 TB CY (0L - IFRS = 31 GC Val Ledger) Monthly Movement exchange rate DCT section) based on the cut-over date (Period + Year) for this object (9010 - GL Open items)</p>
	Legacy	WI TH _IT EM	WT_ QSF H3	W/tax exempt amount in LC3	S /4H ANA	WI TH _IT EM	WT_ QSF H3	W/tax exempt amount in LC3	<p>Automatically converted during posting</p> <p>This is for currency type 31 (Global currency / Group currency)</p> <p>Note: Currently, legacy does not have group currency amount, the plan is let exchange rate to populate this.</p> <p>Very Important point to be noted here - take the relevant exchange rate from the exchange rate table (refer to CNV -9013 TB CY (0L - IFRS = 31 GC Val Ledger) Monthly Movement exchange rate DCT section) based on the cut-over date (Period + Year) for this object (9010 - GL Open items)</p>

List of Custom Target Reports for this object is maintained here: [Conversion Specification - Custom Reports Register](#).

Note on currencies :

Note for currencies :

Group Currency Calculation (reference from CS # 9013)

In legacy ECC, it was identified that group currency balances are missing. To address this, the plan is to derive group currency amounts by reading the relevant exchange rates from the BFC consolidation system for each period within the migration scope.

For each period:

- The local currency amounts will be extracted from ECC.
- The corresponding period's exchange rate will be retrieved from BFC.
- The group currency balance will be calculated by converting the local currency amounts using the BFC exchange rates.
- The calculated group currency balances will then be loaded into S/4HANA as part of the migration process.

This approach ensures consistency between the group currency balances in S/4HANA and the consolidation system.

Exchange Rate Table: Local Currency to Group Currency (DCT page to be maintained to store this information for each cycle and to be used across Finance transactional objects)

Target company code	Period (YYYYMM)	Local currency	Target group currency (currency type 30)	Group currency exchange rate (currency type 30)	Target group currency (currency type 31)	Group currency exchange rate (currency type 31)	Source system
1000	202401	EUR	EUR	1.10	EUR	1.10	BFC
2000	202401	GBP	EUR	1.30	EUR	1.30	BFC
3000	202401	CNY	EUR	0.14	EUR	0.14	BFC
1000	202402	EUR	EUR	1.12	EUR	1.12	BFC
2000	202402	GBP	EUR	1.28	EUR	1.28	BFC
3000	202402	CNY	EUR	0.15	EUR	0.15	BFC
.

Currency Adjustment During Migration (TCURX Consideration)

In SAP, the **TCURX** table defines the **number of decimal places** used for each currency.

This impacts how amounts are **stored internally** in database tables versus how they are **displayed externally** in user interfaces or reports.

Currencies such as **JPY (Japanese Yen)**, **KRW (Korean Won)**, or **VND (Vietnamese Dong)** are typically configured with **no decimal places** (TCURX -CURRDEC = 0).

Understanding and correctly applying the **TCURX rules** is essential during **data migration** to ensure financial consistency between **ECC** and **S/4HANA**.

Internal vs External Currency Representation example:

External Amount

The amount value as displayed to users in SAP screens and reports.

96015 JPY

Internal Amount

The amount value stored in database tables for computation.

960.15

Multiplied by factor = 10² if target has 2 decimals

During **data migration**, these internal (technical) amounts must be **converted to external** amounts to ensure accuracy and consistency in the **target S/4HANA system**.

Conversion Formula:

External Amount = Internal Amount * 10 to the power (2 - Number of decimal for the currency in TCURX table)

Transformation Mapping

Mapping Table Name	Mapping Table Description
Company Code	Mapping of legacy company codes to target system value
Withholding Tax	Mapping of legacy withholding tax types and tax codes to target system value by country and company code (withholding tax in scope only)

Transformation Dependencies

List the steps that need to occur before transformation can commence

Item #	Step Description	Team Responsible
1	Ensure all the fields that require value mapping, as stipulated. Mapping tables, have the correct values mapped and imported into tool.	Data team

Pre-Load Validation

Project Team

Completeness

Task	Action
Generation of Pre-load reports	<p><u>Mandatory field check.</u> Based on S/4HANA target design fields, account field status groups and tax settings</p> <p>Check if records have all mandatory fields filled and mapped, otherwise they should be flagged as error.</p> <p><u>Check signage of amount.</u> Check whether source data (including DCT) has debit and credit entries in the same line. If sign is the same in all the three currency fields, then no action needed.</p> <p>If the sign in the document currency and company code currency field are different, then the document needs to be corrected in the source system or DCT.</p> <p>Ensure all transactions have values in Document Currency and Local Currency (i.e. no 0.00 allowed)</p>
Reconciliation of total	<p><u>Record Count</u> Check the sum of record count of the AP /AR withholding tax items in the load file is the same as source. The record count for AP / AR withholding tax items will be done on the group basis. The fields in the group are consist of: Company Code, withholding tax code</p> <p><u>Check Amount in Document Currency and Local Currency</u> Check the sum of the amount in Document Currency and Local Currency in load file is the same as source. If any of the sum is different, flag the record as error.</p>
Reconcile wtax code between BP master and wtax open items	For withholding tax relevant to respective AP open items, compare the wtax type and code with the respective BP master wtax type/code. If different, this needs to be flag as a issue which require cleansing / decision from business to take action.

Accuracy

Task	Action
Mandatory field mapping and transformation	<p>Obtain a list of the fields to be populated with values from mapping files and ensure all these fields contain S/4HANA values.</p> <p>Review the data report to ensure mapping value is not missing in tool.</p> <p>Capture errors in the Data Error report.</p>



Source data for ...le open item.xml



Source data for ...le open item.xml

Load Run Sheet

Item	Step description	Team responsible
1	Ensure the load tools are transported into the correct tool instance.	Data team
2	Ensure DCTs and all required mappings are submitted and complete	Data team
3	Ensure Pre-load sign-offs are obtained.	Data team
4	Execute tool AP/AR withholding tax items	Data team
5	Generate the post load reports in tool.	Data team
6	Log errors as defects, if any and address resolutions. Close defects.	Data team
7	Resolve defects by reupload and re-generate post load reports if necessary.	Data team
8	Business to validate the post load files as part of post-load validation, raise data defects or provide the post-load sign-off.	Business
9	Repeat steps 5 to 7 if necessary.	Data team

Load Phase and Dependencies

Configuration

Item #	Configuration item
1.	Company code-related configuration (posting period variant).
2.	Finance posting (document types, document number ranges, special gl indicator)
3.	Currencies (currency keys, decimal places in currencies)
4.	Withholding Tax (tax types , tax codes)

Conversion Objects

Object #	Preceding Object Conversion Approach
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1067	GL Account Operational CoA (incl. secondary CE)
3018	Business Partners - FI Vendor (FLVN00)
9006	AP Open Items
9007	AP Special GL Open Items
9008	AR Open Items
9009	AR Special GL Open Items

Error Handling

Error type	Error description	Action taken
Withholding Tax type does not exist	Withholding Tax type does not exist in company	Ensure the Withholding tax type mapping is correct
Withholding Tax code does not exist	Withholding Tax code does not exist in company	Ensure the Withholding tax code mapping is correct

Post-Load Validation

Project Team

The following reports / checks will be performed with reports from Syniti.

As part of the reconciliation and error prevention in subsequent payment process, the program RFWT0010 will be executed in test run to look for potential errors. The report will be shared with business for analysis and next course of action. Once approved to run in real mode, the program will be executed.

Completeness

Task	Action
Reconciliation of Record Count	<p>Total number of records loaded for AP /AR withholding tax items will be generated in the Post-load reports in tool based on the target table and fields mentioned</p> <p>The reconciliation needs to be executed on the total number of 'valid' records and currency amount per company code in the source compared to total number of records and currency amount in S/4HANA</p> <p><u>Record Count</u></p> <p>Check the sum of record count of the tax items in the load file is the same as S/4HANA. The record count for AP/AR withholding tax items will be done on the group basis. The fields in the group are consist of: Company Code, withholding tax code</p> <p><u>Check Amount in Document Currency and Local Currency</u></p> <p>Check on line item level that the sum of the amount in Document Currency and Local Currency in the load file is the same as posted in S/4HANA. If any of the sum is different, flag the record as error.</p>

Accuracy

Task	Action
Check values in key fields for accuracy	<p>Post-load reports will have the same structure as the load file and some additional columns as required to facilitate the post load validation.</p> <p>Leverage on tool to create a Post Load report that reports S/4HANA loaded records along with the legacy values side-by-side to allow for 100% check of all these fields in the shortest possible time.</p> <p><u>Any</u> mismatch will be reported under the Post Load - Error report.</p>

Business

Completeness

Task	Action
Record Count Check	Review the record count report from the Data Team and ensure it is correct by cross-checking with the record count confirmed during Pre-load Business Validations Business may also run VAT reports or equivalent report in Fiori App to display loaded AP / AR withholding tax items in S/4HANA and compare results against the pre-load reports generated from tool.

Accuracy

Task	Action
Withholding tax items totals	Check withholding tax totals by Company code. Totals should be checked in Document, Local and Group currency.
Spot check	Business should choose some tax codes and perform comprehensive check of withholding tax items etc. Such companies should have huge number of withholding tax items or have certain complexity in conversion.

Key Assumptions

- Master Data Standard is up to date as on the date of documenting this conversion approach and data load.
- is in scope based on data design and any exception requested by business.

Change log

Version	Published	Changed By	Comment
CURRENT (v. 28)	Apr 01, 2026 13:50	NG-ext, Bernard	
v. 27	Mar 26, 2026 15:48	NG-ext, Bernard	
v. 26	Dec 04, 2025 14:14	NG-ext, Bernard	
v. 25	Dec 04, 2025 14:12	NG-ext, Bernard	
v. 24	Nov 17, 2025 12:48	NG-ext, Bernard	
v. 23	Nov 17, 2025 08:36	NG-ext, Bernard	
v. 22	Nov 07, 2025 17:04	NG-ext, Bernard	
v. 21	Nov 05, 2025 13:41	NG-ext, Bernard	
v. 20	Nov 04, 2025 13:17	NG-ext, Bernard	
v. 19	Nov 03, 2025 08:49	NG-ext, Bernard	

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Workflow history

Title	Last Updated By	Updated	Status
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There are no pages at the moment.

Workflow history

This view shows the 5 most recent entries. The complete workflow log is available from the 'Document Activity' menu item.

Apr 21, 2026	Actor	Type	Activity	Version
Approved	 GARCIA-ext, Angel Luis	State	changed state to Approved at 7:57 am	v28
Revision under Review	 GARCIA-ext, Angel Luis	State	gave <i>Minor change</i> approval at 7:57 am	
		State	changed state to Revision under Review at 7:57 am	v28
From Mar 26, 2026 to Apr 01, 2026				
Revision in Progress	 NG-ext, Bernard	Edit	updated the page at 3:48 pm	
		State	changed state to Revision in Progress at 2:48 pm	v27
Dec 15, 2025				
Approved	 TAN-ext, Charmaine	State	changed state to Approved at 2:04 pm (State override) <i>[PMO Comments] Conversion Spec completed as per CS register and functional review completed</i>	v26
