

CNV-9110 TRM- Security Bonds

Status	100%
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Purpose

The purpose of this document is to define the conversion approach to create Bond Transactions in S/4 HANA.

Bond are Debt Instruments where the company borrow funds from the market by Issuing Bonds. Bonds are either issued at Par i.e. 100% of the value of the bonds, or at Discount i.e for eg 98% of the value or at Premium i.e. 102% of the value of the Bond. The Premium or Discount on the Bond is amortized over the life of the Bond.

These instruments are create under a certain Product Type (Instrument Number) and a Transaction Type (Kind of action i.e. buying or selling) against a counterparty (BP Number) in a Company Code for a Security ID and held in a Security Account. To facilitate this, Master Data like Business Partners (CNV - 3040), Security Class (CNV - 1184), Security Account (CNV - 1185) are referenced in this CNV in the below sections.

For loading Bonds, SAP has provided a standard BAPI which will have all the necessary fields for successful creation of Bonds. The said BAPI has various Sub-Sections which will form a Load Template and a mapping rule between the DCT and BAPI load format.

BAPI Name : BAPI_FTR_SECURITY_CREATE

Key Fields of the BAPI used in the DCT are as under:

Key Field	Description
COMPANY_CODE	Company Code in which this deal must be created.
PRODUCT_TYPE	This is the Product Type for which the deal needs to be created. For this instrument there is a default value for this field = "BIF" or "BIV"
TRANSACTION_TYPE	This is the action performed for this transaction i.e. Buy/Sell. For this instrument there is a default value for this field= "ISS".
PARTNER	This is the counterparty with which the deal is booked. However there needs to be a check table which needs conversion between Quantum BP number vs SAP BP Number. This has been referenced in the Transformation Rules Section of this document as a Reference check.
CONTRACT_DATE	This is the date when the deal is created. Data to be captured in the DCT in date format as "YYYYMMDD"
TRADER	This defines the trader who concluded the deal.
PORTFOLIO	This is a code to be used for bucketing these deals under the same kind of transactions. It is used for reporting purposes.
VALUATION_CLASS	This defines the Valuation Class under which this deal needs to be Accounted for i.e. Long Term or Short Term Investments or Long Term or Short Term Borrowings.
Security Class ID Number	This is the name of Security in itself. In our Case it can be Stock Held External Companies or Stock held in subsidiaries. Different Security Classes will be made available for this purpose. This will be provided under CNV - 1184 Security Class Master Data.
Securities Account	This is the Physical Account that will hold the equity shares for investment. The same will be provided under CNV - 1185 Security Account.
Position Value Date	This is the Value Date on which the position is valued at
Calculation Date	This is the Calculation Date for Accrued Interest Calculation
Nominal Amount	This is the Amount invested to buy the given Equity Shares of Entities.
Characteristics	This field holds the Legacy Quantum Deal Number

Conversion Scope

The scope of this document covers the approach for converting active Bonds from Legacy Source System (Quantum) into S/4HANA. The relevancy criteria is not applicable for this object as the relevant data will be provided by business in a DCT (Data Collection Template).

List of source systems and approximate number of records

Source	Scope	Source Approx No. of Records	Target System	Target Approx No. of Records
Quantum	Live Bond Investment Contracts	100 <TBC>	S4HANA	100 <TBC>

Additional Information

Multi-language Requirement

Not Applicable

Document Management

Not Applicable

Legal Requirement

Not Applicable

Special Requirements

As the conversion involves a source system which is non-SAP, the below area needs special handling:

1. Extraction of Bond data from source system i.e. Quantum is to be done manually
2. Cleansing by business team in the source system (Quantum) to ensure that only active and in use records for Bonds are provided in DCT
3. The extracted records to be converted into a DCT and stored in the Syniti for Transformation
4. Below Configuration Check Tables needs to be referenced in Syniti to validate the data in the DCT:
 - a. Counterparty to Business Partner - BUT000
 - b. Company Code - T001
 - c. Product Type - TZPA
 - d. Transaction Type - AT10
 - e. Trader - TZDEA
 - f. Portfolio Code - TWPOB
 - g. General Valuation Class - TRGC_COM_VALCL
 - h. Security Account – TWD01
 - i. Security ID – VWPANLA
5. Amount and date format from source system to align with S4HANA
6. As the target structure in S4HANA involves dependency on various Configuration and BP Master Data objects (CNV 3040), all this data needs to be loaded before Transactions Data loads.

Target Design

For a Transaction Load DCT, since there are no standard LTMC objects that we can use for loading this data, we will be using BAPI's for this purpose. In a BAPI there are multiple fields, off which all are not necessary to be utilized as part of DCT.

In this section, we will see the full list of fields that are part of the BAPI and DCT. This section will also explain field by field mapping of the BAPI structure and where the data will come from for each field for the BAPI.

The technical design of the target for this conversion approach.

Table Name	Field	Field Description	Data Type	Length	Requirement
VTBFHA	BUKRS	COMPANY_CODE	CHAR	4	This is a Required Field
VTBFHA	SGSART	PRODUCT_TYPE	CHAR	3	This is a Required Field
VTBFHA	SFHAART	TRANSACTION_TYPE	CHAR	3	This is a Required Field

VTBFHA	KONTRH	PARTNER	CHAR	10	This is a Required Field
VTBFHA	DBLFZ	CONTRACT_DATE	DATS	8	This is a Required Field
VTBFHAZU	RDEALER	TRADER	CHAR	12	This is a Required Field
VTBFHA	RPORTB	PORTFOLIO	CHAR	10	This is a Required Field
VTBFHA	ZUOND	ASSIGNMENT	CHAR	18	This is Optional Field
VTBFHAZU	NORDEXT	EXTERNAL_TRANSACTION_NUMBER	CHAR	16	This is Optional Field
VTBFHA	REFER	INTERNAL_REFERENCE	CHAR	16	This is Optional Field
VTBFHA	MERKM	CHARACTERISTICS	CHAR	25	This is a Required Field
VTBFHA	FACILITYBUKRS	VALUATION_CLASS	NUMC	4	This is a Required Field
VTBFHA	RANL	Security Class ID Number	CHAR	13	This is a Required Field
VTBFHA	RLDEPO	Securities Account	CHAR	10	This is a Required Field
VTBFHAPO	DBESTAND	Position Value Date	DATS	8	This is a Required Field
VTBFHAPO	DVAULT	Calculation Date	DATS	8	This is a Required Field
VTBFHAPO	BNWHR	Nominal Amount	DEC	23	This is a Required Field
VTBFHAPO	BUPRC	Sec. Price Without Curr. Reference for Unit/Price Quotation	DEC	15	This is a Required Field
VTBFHA	WGSCHFT	Transaction Currency	CUKY	5	This is a Required Field
VTBFHAPO	BZBETR	Payment Amount	DEC	23	This is a Required Field
VTBFHAPO	SFLAT	Indicator 'Traded flat', i.e. no accrued interest calculation	CHAR	1	This is a Required Field
VTBFHAPO	SCOUPON	Coupon ID for interest and accrued interest calculation	CHAR	1	This is a Required Field
VTBFHAPO	SSTCKTG	Accrued interest: Daily method	CHAR	1	This is a Required Field
VTBFHAPO	SFHAZBA	Flow Type	CHAR	4	This is Optional Field
	No Table field for this	Inclusive Indicator as Character Field	CHAR	1	This is Optional Field
VTBFHAZU	SEFFMETH	Effective Interest Method (Financial Mathematics)	NUMC	1	This is a Required Field
VTBFHAPO	BUPRC	Sec. Price Without Crcy Reference for Unit/Price Quotation	DEC	23	This is Optional Field
VTBFHA	TB_TVTRAB	CONTRACT_TIME	DEC	45	This is Optional Field
VTBFHA	TB_DCRDAT	ENTRY_DATE	DATS	8	This is Optional Field

The DCT Target fields are based on below main Treasury Tables:

1. VTBFHA
2. VTBFHAPO
3. VTBFHAZU

The primary linkage between the tables are Company Code and Deal Number. In addition to this, Characteristics Field will be used to link up Quantum Data with SAP as a primary key. Each SAP deal will correspond to the Quantum Deal.

In the above table we saw fields in the DCT. Now we will check the fields in the BAPI and the data logic how it will correspond to the DCT.

The BAPI has 2 structures. Fields in each structure needs to be populated as under:

BAPI Main Flow Data Structure:

Field Name	Description	Mapping Logic
VVRANLW	SECURITY_ID	From DCT field "SECURITY_ID"
VRLDEPO	SECURITY_ACCOUNT	From DCT field "SECURITY_ACCOUNT"
TB_DBESTAND	POSITION_VALUE_DATE	From DCT field "POSITION_VALUE_DATE"
DVALUT	CALCULATE_DATE	From DCT field "CALCULATE_DATE"
BAPITM_BNWHR	NOMINAL_AMOUNT	From DCT field "NOMINAL_AMOUNT"
TB_ASTUECK	NUMBER_UNITS	Keep Blank or Ignore the field
BAPITM_BUPRC	PRICE	From DCT field "Sec. Price Without Curr. Reference for Unit/Price Quotation"

TB_RUNIT	PRICE_UNIT	Keep Blank or Ignore the field
ISOCOD	PAYMENT_CURRENCY_ISO	From DCT field "Transaction Currency"
TB_WGSCHFT	PAYMENT_CURRENCY	From DCT field "Transaction Currency"
BAPITM_BZBETR	PAYMENT_AMOUNT	From DCT field "Payment Amount"
VVRHANDPL	EXCHANGE	Keep Blank or Ignore the field
VVSFLAT	TRADED_FLAT	From DCT field "Indicator 'Traded flat',i.e.no accrued interest calculation"
VVSCOUPON	COUPON_INFO	From DCT field "Coupon ID for interest and accrued interest calculation"
SSTCKTG	ACC_INT_CALC_METHOD	From DCT field "Accrued interest: Daily method"
TB_DORDER	ORDER_DATE	Keep Blank or Ignore the field
TB_SFHAZBA	BEWEG_ART	From DCT field "Flow Type"
TPM_ROUNDING_RULE	ROUND_RULE	Keep Blank or Ignore the field
TB_SINCL_CHAR	INCLUSIVE_INDICATOR	From DCT field "Inclusive Indicator as Character Field"
BAPITM_HWBETR	LOCAL_AMOUNT	From DCT field "Payment Amount in Local Currency"
BAPITM_ORIG_BNWHR	NOMINAL_ORIG_AMT	Keep Blank or Ignore the field
BAPITM_BWBETR	POSITION_AMOUNT	From DCT field "Payment amount in position currency"
TB_INDEX_PRICE	IND_PRICE_VALUE	Keep Blank or Ignore the field
TFMSKALIDWT	ACC_INT_CALC_CALENDAR	Keep Blank or Ignore the field
SEFFMETH_NEW	YIELD_METHOD	From DCT field "Effective Interest Method (Financial Mathematics)"
TB_SFHAZBA	PAYMENT_FLOWTYPE	Keep Blank or Ignore the field
TB_ZUOND	PAYMENT_ASSIGNMENT	Keep Blank or Ignore the field
TB_ZUOND	QUANTITY_ASSIGNMENT	Keep Blank or Ignore the field
TB_ASTUECK_L	NUMBER_UNITS_LONG	Keep Blank or Ignore the field
BAPITM_BUPRC_L	PRICE_LONG	From DCT field "Sec. Price Without Crcy Reference for Unit/Price Quotation"

BAPI General Data Structure:

Field Name

Field Name	Description	Mapping Logic
BUKRS	COMPANY_CODE	From DCT field "COMPANY_CODE"
VVSART	PRODUCT_TYPE	From DCT field "PRODUCT_TYPE"
TB_SFHAART	TRANSACTION_TYPE	From DCT field "TRANSACTION_TYPE"
TB_RFHA	EXTERNAL_TRANSACTION_NUMBER	From DCT field "External Transaction Number"
TB_KUNNR_NEW	PARTNER	XREF check against Business Partner
TB_DVTRAB	CONTRACT_DATE	From DCT field "CONTRACT_DATE"
TB_TVTRAB	CONTRACT_TIME	System Time at the time of Data Load
TB_GSPPART	CONTACT_PERSON	Keep Blank or Ignore the field
RDEALER	TRADER	From DCT field "TRADER"
RREFKONT_OBSOLETE	ACCT_ASSIGNMENT_REF	Keep Blank or Ignore the field
RPORTB	PORTFOLIO	From DCT field "PORTFOLIO"
TB_TFPROJ	FINANCE_PROJECT	Keep Blank or Ignore the field
TB_RGARANT_NEW	GUARANTOR	Keep Blank or Ignore the field

TB_RMAID	MASTER_AGREEMENT	Keep Blank or Ignore the field
TB_ZUOND	ASSIGNMENT	From DCT field "ASSIGNMENT"
TB_NORDEXT	EXTERNAL_REFERENCE	From DCT field "EXTERNAL_REFERENCE"
TB_REFER	INTERNAL_REFERENCE	From DCT field "INTERNAL_REFERENCE"
TB_MERKM	CHARACTERISTICS	From DCT field "CHARACTERISTICS"
TBEGRU	AUTH_GROUP	Keep Blank or Ignore the field
TB_CRUSER	CREATE_USER	Keep Blank or Ignore the field
TB_DCRDAT	ENTRY_DATE	Date on which the data is getting loaded.
TB_FACILITYNR	FACILITY	Keep Blank or Ignore the field
TB_FACILITYBUKRS	FACILITY_COMPANY_CODE	Keep Blank or Ignore the field
TPM_COM_VAL_CLASS	VALUATION_CLASS	From DCT field "VALUATION_CLASS"
FM_FUND	FUND	Keep Blank or Ignore the field
GM_GRANT_NBR	GRANT_NBR	Keep Blank or Ignore the field
TB_SPESEN	EXPENSE_KEY	Keep Blank or Ignore the field
TB_SANST	RESERV_REASON	Keep Blank or Ignore the field
TPM_TREA_CLEARING_OPT	CLEARING_OPTION	Keep Blank or Ignore the field
TPM_TREA_CLEARING_STATUS	CLEARING_STATUS	Keep Blank or Ignore the field
TPM_TREA_CLEARING_DATE	CLEARING_DATE	Keep Blank or Ignore the field
TPM_EXT_ACCOUNT	EXT_ACCOUNT	Keep Blank or Ignore the field
TPM_TREA_CLEARING_DATE_ACT	CLEAR_DATE_ACT	Keep Blank or Ignore the field
FTR_THRESHOLD_RISK_MITIGATING	RISK_MITIGATION	Keep Blank or Ignore the field
FTR_THRESHOLD_SCHEME	LEGAL_BASIS	Keep Blank or Ignore the field
FTR_TARO_TRADE_ID	EXTERNAL_TRADE_ID	Keep Blank or Ignore the field
PRCTR	PROFIT_CENTER	Keep Blank or Ignore the field
KOSTL	COST_CENTER	Keep Blank or Ignore the field
PS_PSP_PNR	WBS_ELEMENT	Keep Blank or Ignore the field
GSBER	BUSINESS_AREA	Keep Blank or Ignore the field
TOE_HEDGING_CLASSIFICATION_OLD	HEDGE_CLASSIFICATION	Keep Blank or Ignore the field
TRPA_INITIAL_STAGE	INIT_CLASSIFIER	Keep Blank or Ignore the field
LAND1	COUNTRY	Keep Blank or Ignore the field
INTCA	COUNTRY_ISO	Keep Blank or Ignore the field
FB_SEGMENT	SEGMENT	Keep Blank or Ignore the field
TRBA_BEHALF_OF_COMPANY	ON_BEHALF_OF_COMPANY	Keep Blank or Ignore the field
TOE_HEDGING_CLASSIFICATION	HEDGING_CLASSIFICATION	Keep Blank or Ignore the field
TOE_REQUEST_ID	HEDGE_REQUEST_ID	Keep Blank or Ignore the field
FTR_CFI_CODE	CFI_CODE	Keep Blank or Ignore the field
RANL_ISIN	ISIN	Keep Blank or Ignore the field
TBA_MIC	MIC	Keep Blank or Ignore the field
FTR_CONTRACT_TIMESTAMP_UTC	CONTRACT_TIMESTAMP_UTC	Keep Blank or Ignore the field
BUPLA	BUSINESS_PLACE	Keep Blank or Ignore the field
FKBER	FUNCTIONAL_AREA	Keep Blank or Ignore the field

TPM_CUST_DIFF_TERM_VALUE	CUSTOM_DIFF_TERM_1	Keep Blank or Ignore the field
TPM_CUST_DIFF_TERM_VALUE	CUSTOM_DIFF_TERM_2	Keep Blank or Ignore the field
TPM_CUST_DIFF_TERM_VALUE	CUSTOM_DIFF_TERM_3	Keep Blank or Ignore the field
TPM_CUST_DIFF_TERM_VALUE	CUSTOM_DIFF_TERM_4	Keep Blank or Ignore the field
TPM_CUST_DIFF_TERM_VALUE	CUSTOM_DIFF_TERM_5	Keep Blank or Ignore the field
TPM_CUST_DIFF_TERM_VALUE	CUSTOM_DIFF_TERM_5	Keep Blank or Ignore the field

This BAPI has a simulation run provision. As part of the Pre-Load check when all the Syniti ADMM checks are performed, before making the production run of all the Bonds, a simulation run should be performed and all the standard BAPI errors needs to be documented.

A custom report, if required needs to be created for this. The report needs to have row reference and display the standard BAPI return messages successful as well as failed. This will make sure all the deposits successfully pass all checks.

Note: It is also assumed that the DCT will not bring in Payment Details of Bonds. This information will be loaded as part of CNV 3040 – Business Partner Counterparty and CNV . Under this CNV1185 – Security Account, Payment SI details are created and assigned to this instrument. If this is done, once the BAPI is executed, it will automatically get assigned to the deal as part of Standard BAPI processing. A Data Pre-Validation check has been introduced for this step.

Data Cleansing

For the Object 9110 – Treasury Bonds no specific data cleansing is applicable due to below reasons/assumptions:

1. The Source System is Quantum and therefore it will be a manual extract of relevant data in a DCT form

Data- Pre Load Validation Report

However, for the purpose of the object 3040 - Business Parter Counterparty, below validations reports should be available in Syniti so that the data as provided in DCT is validated before generating the pre-load file.

Criticality	Error Message/Report Description	Rule	Output
High	Company Code is valid	Check if BUKRS is valid as per Company Codes created in the system in Table T001	Invalid Company Code
High	PRODUCT_TYPE	Check if VVSART is valid as per Product Types created in the system in Table TZPA. Value for Bond Product Type is "EAP". If this is not, then the validation should fail.	Invalid Product Type
High	TRANSACTION_TYPE	Check if SFHAART is valid as per Transaction Types created in the system in Table AT10	Invalid Transaction Type
High	PARTNER	Check if KUNNR is valid as per Business Partners created in the system under CNV 3040 Business Partner Counterparty	Invalid Partner
High	CONTRACT_DATE	Check if DVTRAB is valid in YYYYMMDD Format and is < or = Load Date	Contract Date greater than Load Date
High	TRADER	Check if RDEALER is valid as per Traders created in the system in Table TZDEA	Invalid Trader
High	PORTFOLIO	Check if RPORTB is valid as per Portfolio Code created in the system in Table TWPOB	Invalid Portfolio Code
High	VALUATION_CLASS	Check if TPM_COM_VAL_CLASS is valid as per Company Codes created in the system in Table TRGC_COM_VALCL	Invalid Valuation Class
High	SECURITY_ID	Check if VVRANLW is valid as per Security ID created in the system in Table VWPANLA	Invalid Security ID
High	SECURITY_ACCOUNT	Check if VRLDEPO is valid as per Security Account created in the system in Table TWD01	Invalid Security Account
High	POSITION_VALUE_DATE	Check if DBESTAND is valid in YYYYMMDD Format and is > or = Contract Date	Position Value date greater than Contract date
High	PAYMENT_DATE	Check if DVALUT is valid in YYYYMMDD Format and is > or = Contract Date	Payment date greater than Contract date

Apart from the above, a custom report is required to be created for this. The report needs to have row reference for each BOND loaded under this CNV and display the standard BAPI return messages successful as well as failed. This will make sure all the deposits successfully pass all checks. An additional check is needed if

- All dates loaded are correctly transformed into the deals created
- Payment Details are not going blank and if yes, the BAPI will return a warning for the same. If this warning appears, it will signify the BP Master Maintenance has been missed. Such records must fail and the maintenance needs to be done at the BP Master.

Conversion Process

The generic high-level process steps for the conversion are as below:

1. Extraction:
 - a. Extract from the source systems: Apply the selection parameters and data relevancy as mentioned in this specification, from the relevant tables
 - b. DCT: The DCT to be prepared if the data to be transformed and is part of the load file is not available in the Source system
2. Transform
 - a. Transform fields by applying the fields and value mapping in the Syniti
 - b. Generate and validate Pre-load files
3. Load
 - a. Load the validated Pre-load file using SAP's LTMC or the custom upload program as applicable.

However, with respect to Object 9110 – Treasury Bonds DCT will be used for transformation and generation of the pre-load file.

Data Privacy and Sensitivity

Not Applicable

Extraction

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

1. The data exists, connects to the source and loads the data into . There are 3 methods:
 - a. Perform full data extraction from relevant tables in the source system(s).
 - b. Perform extraction through the application layer.
 - c. Only if ; cannot connect to the source, data is loaded to the repository from the provided source system extract/report.
2. The data does not exist (or cannot be converted from its current state). The data is manually collected by the business directly in . This is to be conducted using DCT (Data Collection Template) in

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
01	<p>Extract from relevant tables/reports from Quantum all relevant information required to populate the DCT for Treasury Bonds for relevant Company Codes.</p> <p>This extraction is dependent on the extraction, validation and load of Master Data Object CNV 3040 BP Master, CNV 1184 Security Class and CNV 1185 Security Account. It is also dependent on completion of configuration for items like Company Code, Product Type, Transaction Type, Portfolio Codes, General Valuation Class.</p>	Business

Selection Screen

Not applicable as the extraction is manual activity to be performed by business in Quantum system.

Data Collection Template (DCT)

Target Ready Data Collection Template will be created for 9110 – Treasury Bonds with exception of some fields which require transformation as mentioned in the transformation rule.

9110 – Treasury Bonds DCT Rules

Field Name	Field Description	Rule
BUKRS	COMPANY_CODE	<p>This is a Required field.</p> <p>This data will be captured by business. It is the Company Code under which a Stock is to be created.</p> <p>In DCT, S4HANA number to be populated based upon the list of Company Codes. This list needs to be provided to the Business Team who will be downloading data from Quantum System.</p> <p>Validation check needs to be done with check table T001</p>
SGSART	PRODUCT_TYPE	<p>This is a Required field.</p> <p>This data will be captured by business. It is the Product Type under which a Stock is to be created.</p> <p>In DCT, S4HANA number is defaulted to "EAP".</p> <p>Validation check needs to be done with check table TZPA</p>
SFHAA RT	TRANSACTION_T YPE	<p>This is a Required field.</p> <p>This data will be captured by business. It is the Transaction Type under which a Stock is to be created.</p> <p>In DCT, S4HANA number is defaulted to "100".</p> <p>Validation check needs to be done with check table AT10</p>
KONTRH	PARTNER	<p>This is a Required field.</p> <p>This data will be captured by business for Counterparties. A validation is needed to check the BP number captured in the DCT is valid one and is present as per CNV 3040 - Business Partner Counterparty.</p> <p>Validation check needs to be done with check table BUT100</p>
DBLFZ	CONTRACT_DATE	<p>This is a Required field.</p> <p>Date format is YYYYMMDD. Contract Date will always be PRIOR TO the Load Date. This check needs to be implemented.</p> <p>Example: 99991231</p>
RDEAL ER	TRADER	<p>This is a Required field.</p> <p>This data will be captured by business. It is the Trader who concludes the Stock.</p> <p>In DCT, S4HANA Trader Code needs to be populated based upon the list of configured Traders. This list needs to be provided to the Business Team who will be downloading data from Quantum System.</p> <p>Validation check needs to be done with check table TZDEA</p>
RPORTB	PORTFOLIO	<p>This is a Required field.</p> <p>This data will be captured by business. It is the Portfolio Code to bucket all Stock under for reporting purposes. In DCT, S4HANA Portfolio Codes needs to be populated based upon the list of Portfolio's configured in the system. This list needs to be provided to the Business Team who will be downloading data from Quantum System.</p> <p>Validation check needs to be done with check table TWPOB</p>
ZUOND	ASSIGNMENT	<p>This is a Optional field.</p> <p>This is a freely maintainable field to capture additional data for the deal. No validations needed for this field.</p>
NORDE XT	EXTERNAL_TRA NSACTION_NUM BER	<p>This is a Optional field.</p> <p>This is a freely maintainable field to capture additional data for the deal. No validations needed for this field.</p>
REFER	INTERNAL_REFE RENCE	<p>This is a Optional field.</p> <p>This is a freely maintainable field to capture additional data for the deal. No validations needed for this field.</p>
MERKM	CHARACTERISTI CS	<p>This is a Required field.</p> <p>This field will be populated with the Legacy Quantum Deal Number.</p>

FACILITYBUKRS	VALUATION_CLASSES	<p>This is a Required field.</p> <p>This data will be captured by business. It is the Valuation Class under which a Stock is to be accounted for.</p> <p>In DCT, S4HANA GVC number needs to be populated based upon the list of GVC's configured in the system. This list needs to be provided to the Business Team who will be downloading data from Quantum System.</p>
RANL	Security Class ID Number	<p>This is a Required field.</p> <p>This data will be captured by business for Security ID's. A validation is needed to check the Security ID number captured in the DCT is valid one and is present as per CNV 1184 - Securities Class.</p> <p>Validation check needs to be done with check table VWPANLA</p>
RLDEPO	Securities Account	<p>This is a Required field.</p> <p>This data will be captured by business for Security Accounts. A validation is needed to check the Security Account number captured in the DCT is valid one and is present as per CNV 1185 - Securities Account</p> <p>Validation check needs to be done with check table TWD01</p>
DBESTAND	Position Value Date	<p>This is a Required field</p> <p>Date format is YYYYMMDD. Position Value Date will always be Greater Than the Contract Date. This check needs to be implemented.</p> <p>Example: 99991231</p>
DVAULT	Calculation Date	<p>This is a Required field</p> <p>Date format is YYYYMMDD. Calculation Value Date will always be Greater Than the Contract Date. This check needs to be implemented.</p> <p>Example: 99991231</p>
BNWHR	Nominal Amount	<p>This is a Required field.</p> <p>This is the number of shares held and needs to be provided by Business</p> <p>This field needs to be populated and the logic is value in this field should be > 0</p>
BUPRC	Sec. Price Without Curr. Reference for Unit/Price Quotation	<p>This is a Required field.</p> <p>Bond can be issued at Par, Premium or Discount. Normally this field is populated in percentages. So a 100% is at Par and anything more or below will be deemed as at Discount or Premium.</p>
WGSC HFT	Transaction Currency	<p>This is a Required field</p> <p>This data will be captured by business. It is the Currency of the Stock</p> <p>Currency Codes are ISO standards hence it will be same in all Treasury systems. Still a Validation check is needed in Syniti to check if a valid Currency Code is used in the DCT</p>
BZBETR	Payment Amount	<p>This is a Required field.</p> <p>This is the amount for which Payment needs to be done and needs to be provided by business.</p> <p>Amounts needs to be rounded to 2 decimal places. Standard BADI will automatically round it to 2 decimals. However the BAPI will fail if amount is with more than 5 decimals places. Hence a Pre Validation check needs to be created to check the decimal places are correct.</p>
SFLAT	Indicator 'Traded flat', i.e. no accrued interest calculation	<p>This is a Optional field.</p> <p>This is a freely maintainable field. No validations needed for this field.</p>
SCOUPON	Coupon ID for interest and accrued interest calculation	<p>This is a Optional field.</p> <p>This is a freely maintainable field. No validations needed for this field.</p>
SSTCKTG	Accrued interest: Daily method	<p>This is a Optional field.</p> <p>This field defines the Interest Calculation method if it is needed and the Bond has a coupon rate i.e. interest rate to be paid.</p>
SFHAZBA	Flow Type	<p>This is a Optional field.</p> <p>This is a freely maintainable field. No validations needed for this field.</p>

No Table field for this	Inclusive Indicator as Character Field	This is a Optional field. This is a freely maintainable field. No validations needed for this field.
SEFFM ETH	Effective Interest Method (Financial Mathematics)	This is a Optional field. This is a freely maintainable field. No validations needed for this field.
BUPRC	Sec. Price Without Crpy Reference for Unit/Price Quotation	This is a Optional field. This is a freely maintainable field. No validations needed for this field.

Extraction Dependencies

For object 9114- Treasury Bonds dependencies are applicable as under

Item #	Step Description	Team Responsible
0001	TRM Business Partner	Data Team/Functional Treasury Team
0002	TRM Security Class	Data Team/Functional Treasury Team
0003	TRM Security ID	Data Team/Functional Treasury Team
0004	Treasury Configuration	Functional Treasury Team

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 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
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

Transformation Rules

As explained earlier, there are 2 subsections of the BAPI which needs to be loaded in the system. Below are the details how data from DCT correspond to the BAPI structure.

However, the transformation is also needed for the base DCT Fields which will have table details. In the below sections you will find 2 kinds of information i.e. the Value Fields in the BAPI and also the overall BAPI fields and how they are transformed

Value Fields in the BAPI:

Rul e #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	NA	NA	NA	CONSTRUCT	S4HANA	VTBFHA	BUKRS	COMPANY_CODE	From DCT field "COMPANY_CODE"
2	NA	NA	NA	CONSTRUCT	S4HANA	VTBFHA	SGSART	PRODUCT_TYPE	From DCT field "PRODUCT_TYPE"

3	NA	NA	NA	CONSTRUCT	S4HANA	VTBFHA	SFHAART	TRANSACTION_TYPE	From DCT field "TRANSACTION_TYPE"
4	NA	NA	NA	CONSTRUCT	S4HANA	VTBFHA	KONTRH	PARTNER	From DCT field "PARTNER"
5	NA	NA	NA	CONSTRUCT	S4HANA	VTBFHA	DBLFZ	CONTRACT_DATE	From DCT field "CONTRACT_DATE"
6	NA	NA	NA	CONSTRUCT	S4HANA	VTBFHA	TB_TVTRAB	CONTRACT_TIME	System Time at the time of Data Load
7	NA	NA	NA	CONSTRUCT	S4HANA	VTBFH AZU	RDEALER	TRADER	From DCT field "TRADER"
8	NA	NA	NA	CONSTRUCT	S4HANA	VTBFHA	RPORTB	PORTFOLIO	From DCT field "PORTFOLIO"
9	NA	NA	NA	CONSTRUCT	S4HANA	VTBFHA	ZUOND	ASSIGNMENT	From DCT field "ASSIGNMENT"
10	NA	NA	NA	CONSTRUCT	S4HANA	VTBFH AZU	NORDEXT	EXTERNAL_TRANSACTION_NUMBER	From DCT field "EXTERNAL_REFERENCE"
11	NA	NA	NA	CONSTRUCT	S4HANA	VTBFHA	REFER	INTERNAL_REFERENCE	From DCT field "INTERNAL_REFERENCE"
12	NA	NA	NA	CONSTRUCT	S4HANA	VTBFHA	MERKM	CHARACTERISTICS	From DCT field "CHARACTERISTICS"
13	NA	NA	NA	CONSTRUCT	S4HANA	VTBFHA	TB_DCRDAT	ENTRY_DATE	Date on which the data is getting loaded.
14	NA	NA	NA	CONSTRUCT	S4HANA	VTBFHA	FACILITYBU KRS	VALUATION_CLASS	From DCT field "VALUATION_CLASS"
15	NA	NA	NA	CONSTRUCT	S4HANA	VTBFHA	RANL	Security Class ID Number	From DCT field "SECURITY_ID"
16	NA	NA	NA	CONSTRUCT	S4HANA	VTBFHA	RLDEPO	Securities Account	From DCT field "SECURITY_ACCOUNT"
17	NA	NA	NA	CONSTRUCT	S4HANA	VTBFH APO	DBESTAND	Position Value Date	From DCT field "POSITION_VALUE_DATE"
18	NA	NA	NA	CONSTRUCT	S4HANA	VTBFH APO	DVAULT	Calculation Date	From DCT field "CALCULATE_DATE"
19	NA	NA	NA	CONSTRUCT	S4HANA	VTBFH APO	BZBETR	Nominal Amount	From DCT field "NOMINAL_AMOUNT"
20	NA	NA	NA	CONSTRUCT	S4HANA	VTBFH APO	BUPRC	Sec. Price Without Curr. Reference for Unit/Price Quotation	From DCT field "Sec. Price Without Curr. Reference for Unit/Price Quotation"
21	NA	NA	NA	CONSTRUCT	S4HANA	VTBFHA	WGSCHFT	Transaction Currency	From DCT field "Transaction Currency"
22	NA	NA	NA	CONSTRUCT	S4HANA	VTBFH APO	BZBETR	Payment Amount	From DCT field "Transaction Currency"
23	NA	NA	NA	CONSTRUCT	S4HANA	VTBFH APO	SFLAT	Indicator 'Traded flat', i.e. no accrued interest calculation	From DCT field "Indicator 'Traded flat', i.e. no accrued interest calculation"
24	NA	NA	NA	CONSTRUCT	S4HANA	VTBFH APO	SCOUPON	Coupon ID for interest and accrued interest calculation	From DCT field "Coupon ID for interest and accrued interest calculation"
25	NA	NA	NA	CONSTRUCT	S4HANA	VTBFH APO	SSTCKTG	Accrued interest: Daily method	From DCT field "Accrued interest: Daily method"
26	NA	NA	NA	CONSTRUCT	S4HANA	VTBFH APO	SFHAZBA	Flow Type	From DCT field "Flow Type"
27	NA	NA	NA	CONSTRUCT	S4HANA		No Table field for this	Inclusive Indicator as Character Field	From DCT field "Inclusive Indicator as Character Field"
28	NA	NA	NA	CONSTRUCT	S4HANA	VTBFH AZU	SEFFMETH	Effective Interest Method (Financial Mathematics)	From DCT field "Effective Interest Method (Financial Mathematics)"
29	NA	NA	NA	CONSTRUCT	S4HANA	VTBFH APO	BUPRC	Sec. Price Without Crcy Reference for Unit/Price Quotation	From DCT field "Sec. Price Without Crcy Reference for Unit/Price Quotation"

BAPI Main Flow Data Structure:

Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	VVRANLW	SECURITY_ID	From DCT field "SECURITY_ID"
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	VRLDEPO	SECURITY_ACCOUNT	From DCT field "SECURITY_ACCOUNT"
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TB_DBESTAND	POSITION_VALUE_DATE	From DCT field "POSITION_VALUE_DATE"
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	DVALUT	CALCULATE_DATE	From DCT field "CALCULATE_DATE"
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	BAPITM_BNWHR	NOMINAL_AMOUNT	From DCT field "NOMINAL_AMOUNT"
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TB_ASTUECK	NUMBER_UNITS	Keep Blank or Ignore the field
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	BAPITM_BUPRC	PRICE	From DCT field "Sec. Price Without Curr. Reference for Unit/Price Quotation"
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TB_RUNIT	PRICE_UNIT	Keep Blank or Ignore the field
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	ISOCD	PAYMENT_CURRENCY_ISO	From DCT field "Transaction Currency"
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TB_WGSCHFT	PAYMENT_CURRENCY	From DCT field "Transaction Currency"

NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	DVALUT	PAYMENT_DATE	From DCT field "Calculation Date"
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	BAPITM_BZBETR	PAYMENT_AMOUNT	From DCT field "Payment Amount"
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	VVRHANDPL	EXCHANGE	Keep Blank or Ignore the field
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	VVSFLAT	TRADED_FLAT	From DCT field "Indicator 'Traded flat', i.e. no accrued interest calculation"
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	VVSCOUPON	COUPON_INFO	From DCT field "Coupon ID for interest and accrued interest calculation"
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	SSTCKTG	ACC_INT_CALC_METHOD	From DCT field "Accrued interest: Daily method"
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TB_DORDER	ORDER_DATE	Keep Blank or Ignore the field
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TB_SFHAZBA	BEWEG_ART	From DCT field "Flow Type"
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TPM_ROUNDING_RULE	ROUND_RULE	Keep Blank or Ignore the field
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TB_SINCL_CHAR	INCLUSIVE_INDICATOR	From DCT field "Inclusive Indicator as Character Field"
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	BAPITM_HWBETR	LOCAL_AMOUNT	From DCT field "Payment Amount in Local Currency"
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	BAPITM_ORIG_BNWHR	NOMINAL_ORIG_AMOUNT	Keep Blank or Ignore the field
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	BAPITM_BWBETR	POSITION_AMOUNT	From DCT field "Payment amount in position currency"
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TB_INDEX_PRICE	IND_PRICE_VALUE	Keep Blank or Ignore the field
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TFMSKALIDWT	ACC_INT_CALC_CALENDAR	Keep Blank or Ignore the field
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	SEFFMETH_NEW	YIELD_METHOD	From DCT field "Effective Interest Method (Financial Mathematics)"
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TB_SFHAZBA	PAYMENT_FLOWTYPE	Keep Blank or Ignore the field
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TB_ZUOND	PAYMENT_ASSIGNMENT	Keep Blank or Ignore the field
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TB_ZUOND	QUANTITY_ASSIGNMENT	Keep Blank or Ignore the field
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TB_ASTUECK_L	NUMBER_UNITS_LONG	Keep Blank or Ignore the field
NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	BAPITM_BUPRC_L	PRICE_LONG	From DCT field "Sec. Price Without Crcy Reference for Unit/Price Quotation"

BAPI General Data Structure

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
01	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	BUKRS	COMPANY_CODE	From DCT field "COMPANY_CODE"
02	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	VVSART	PRODUCT_TYPE	From DCT field "PRODUCT_TYPE"
03	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TB_SFHAART	TRANSACTION_TYPE	From DCT field "TRANSACTION_TYPE"
04	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TB_RFHA	EXTERNAL_TRANSACTION_NUMBER	Keep Blank or Ignore the field
05	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TB_KUNNR_NEW	PARTNER	From DCT field "PARTNER"
06	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TB_DVTRAB	CONTRACT_DATE	From DCT field "CONTRACT_DATE"
07	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TB_TVTRAB	CONTRACT_TIME	System Time at the time of Data Load
08	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	TB_GSPPART	CONTACT_PERSON	Keep Blank or Ignore the field
09	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	RDEALER	TRADER	From DCT field "TRADER"
010	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_CREATE	RREFKONT_OBSOLETE	ACCT_ASSIGNMENT_REF	Keep Blank or Ignore the field

011	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	RPORTB	PORTFOLIO	From DCT field "PORTFOLIO"
012	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TB_TFPROJ	FINANCE_PROJECT	Keep Blank or Ignore the field
013	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TB_RGARANT_NEW	GUARANTOR	Keep Blank or Ignore the field
014	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TB_RMAID	MASTER_AGREEME NT	Keep Blank or Ignore the field
015	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TB_ZUOND	ASSIGNMENT	From DCT field "ASSIGNMENT"
016	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TB_NORDEXT	EXTERNAL_REFEREN CE	From DCT field "EXTERNAL_REFERENCE"
017	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TB_REFER	INTERNAL_REFEREN CE	From DCT field "INTERNAL_REFERENCE"
018	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TB_MERKM	CHARACTERISTICS	From DCT field "CHARACTERISTICS"
019	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TBEGRU	AUTH_GROUP	Keep Blank or Ignore the field
020	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TB_CRUSER	CREATE_USER	Keep Blank or Ignore the field
021	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TB_DCRDAT	ENTRY_DATE	Date on which the data is getting loaded.
022	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TB_FACILITYNR	FACILITY	Keep Blank or Ignore the field
023	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TB_FACILITYBUKRS	FACILITY_COMPANY_ CODE	Keep Blank or Ignore the field
024	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TPM_COM_VAL_CLA SS	VALUATION_CLASS	From DCT field "VALUATION_CLASS"
025	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	FM_FUND	FUND	Keep Blank or Ignore the field
026	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	GM_GRANT_NBR	GRANT_NBR	Keep Blank or Ignore the field
027	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TB_SPESEN	EXPENSE_KEY	Keep Blank or Ignore the field
028	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TB_SANST	RESERV_REASON	Keep Blank or Ignore the field
029	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TPM_TREA_CLEARIN G_ OPT	CLEARING_OPTION	Keep Blank or Ignore the field
030	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TPM_TREA_CLEARIN G_ STATUS	CLEARING_STATUS	Keep Blank or Ignore the field
031	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TPM_TREA_CLEARIN G_ DATE	CLEARING_DATE	Keep Blank or Ignore the field
032	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TPM_EXT_ACCOUNT	EXT_ACCOUNT	Keep Blank or Ignore the field
033	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TPM_TREA_CLEARIN G_ DATE_ACT	CLEAR_DATE_ACT	Keep Blank or Ignore the field
034	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	FTR_THRESHOLD_ RISK_MITIGATING	RISK_MITIGATION	Keep Blank or Ignore the field
035	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	FTR_THRESHOLD_S CHEME	LEGAL_BASIS	Keep Blank or Ignore the field
036	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	FTR_TARO_TRADE_ID	EXTERNAL_TRADE_ID	Keep Blank or Ignore the field
037	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	PRCTR	PROFIT_CENTER	Keep Blank or Ignore the field
038	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	KOSTL	COST_CENTER	Keep Blank or Ignore the field
039	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	PS_PSP_PNR	WBS_ELEMENT	Keep Blank or Ignore the field
040	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	GSBER	BUSINESS_AREA	Keep Blank or Ignore the field
041	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TOE_HEDGING_ CLASSIFICATION_OLD	HEDGE_CLASSIFICA TION	Keep Blank or Ignore the field

042	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TRPA_INITIAL_STAGE	INIT_CLASSIFIER	Keep Blank or Ignore the field
043	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	LAND1	COUNTRY	Keep Blank or Ignore the field
044	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	INTCA	COUNTRY_ISO	Keep Blank or Ignore the field
045	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	FB_SEGMENT	SEGMENT	Keep Blank or Ignore the field
046	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TRBA_BEHALF_ OF_COMPANY	ON_BEHALF_OF_ COMPANY	Keep Blank or Ignore the field
047	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TOE_HEDGING_ CLASSIFICATION	HEDGING_ CLASSIFICATION	Keep Blank or Ignore the field
048	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TOE_REQUEST_ID	HEDGE_REQUEST_ID	Keep Blank or Ignore the field
049	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	FTR_CFI_CODE	CFI_CODE	Keep Blank or Ignore the field
050	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	RANL_ISIN	ISIN	Keep Blank or Ignore the field
051	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TBA_MIC	MIC	Keep Blank or Ignore the field
052	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	FTR_CONTRACT_ TIMESTAMP_UTC	CONTRACT_ TIMESTAMP_UTC	Keep Blank or Ignore the field
053	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	BUPLA	BUSINESS_PLACE	Keep Blank or Ignore the field
054	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	FKBER	FUNCTIONAL_AREA	Keep Blank or Ignore the field
055	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TPM_CUST_DIFF_ TERM_VALUE	CUSTOM_DIFF_TER M_1	Keep Blank or Ignore the field
056	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TPM_CUST_DIFF_ TERM_VALUE	CUSTOM_DIFF_TER M_2	Keep Blank or Ignore the field
057	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TPM_CUST_DIFF_ TERM_VALUE	CUSTOM_DIFF_TER M_3	Keep Blank or Ignore the field
058	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TPM_CUST_DIFF_ TERM_VALUE	CUSTOM_DIFF_TER M_4	Keep Blank or Ignore the field
059	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TPM_CUST_DIFF_ TERM_VALUE	CUSTOM_DIFF_TER M_5	Keep Blank or Ignore the field
060	NA	NA	NA	CONSTRUCT	S4HANA	BAPI_FTR_FTD_C REATE	TPM_CUST_DIFF_ TERM_VALUE	CUSTOM_DIFF_TER M_5	Keep Blank or Ignore the field

Transformation Mapping

Mapping Table Name	Mapping Table Description
Business Partner	Mapping Table for Quantum counterparty/partner code to S4HANA Business Partner
Security Class	Mapping Table for Quantum Security Numbers to S4HANA Security Class
Security Account	Mapping Table for Quantum Depository Account to S4HANA Security Account

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 latest signed-off mapping files imported into Syniti	Data team
2	Ensure that signed off value mappings have been maintained in the Syniti	Syniti team
3	Confirm the value mappings as maintained in the Syniti	Data team

4	Ensure that Signed off DCT from business has been received and maintained in Syniti	Syniti/Data team
5	Confirm on the extracted values	Syniti, Data and business

Pre-Load Validation

Project Team

The Pre Load validations are performed by Project Team

Completeness

Task	Action
Generation of Pre-load reports	<p><u>Mandatory field check.</u></p> <ul style="list-style-type: none"> • Company Code for which deal is created is part of the scope • The business partner is in the Counterparty role • Product Type, Transaction Type, Portfolio Code and General Valuation Class is matching the configuration check tables • The validity end date of the deal in the Pre-load file is not prior to cutover/go-live date • All other fields marked as Mandatory are not kept blank in the DCT File
Record Count	<p><u>Record Count</u></p> <p>Confirm the record counts in preload summary report</p> <ul style="list-style-type: none"> • Total Records: <ul style="list-style-type: none"> ◦ Valid Records: ◦ Invalid Records
Business Confirmation	<p>Data team after the initial validation of Pre-Load validation based on the pre agreed validation checklist</p> <p>To send the Pre-Load file to the Business Representatives for all plants/valuation area in scope for conversion</p> <p>Business Representatives to validate the pre-load file</p> <p>Agree with data team on the next steps for erroneous records</p>

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> <ul style="list-style-type: none"> • Company Code, Product Type, Transaction Type, Portfolio Code and GVC in the DCT is matching with the Check Tables provided • Custom Table checks for Interest Calculation Method and Frequency are matched
Business Value Checks	All dates, Amount and Interest Rate for the Bonds are accurately populated in the deal as per DCT.
Records in Errors	Review and correct the errors. Achieve a zero-error record count as much as possible. Raise defects for data remediated and requiring a correction in the source data.

Business

The following pre-load validations will be performed by business.

Completeness

Task	Action
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Check Data load register count	Business Data Owner/s to verify that the total number of relevant records to be converted as per DCT is equal to the total number of records in the Preload file.
Key Fields Check	Business to check some key fields such as validity end date, Start an End Date, Amount, Interest Rate, etc., are correctly populated against the DCT

Accuracy

Task	Action
Conversion accuracy	To check and validate the load files with all the transformation and mapping rules, to be signed off.

Load

The load process includes:

1. Execute the automated data load into target system using "BAPI_FTR_SECURITY_CREATE" and use the DCT File vs structure section of this document to populate the BAPI details.
2. Once the data is loaded to the target system, it will be extracted and prepared for Post Load Data Validation with side by side check of each fields in scope of the objects with fields to be displayed as XXXX_ECC, XXXX_S4HANA, XXXX_MATCH (As TRUE or FALSE) with an additional column denoting fields not matching and status of loading in S/4HANA as LOADED_IN_S4HANA (As TRUE or FALSE)

Load Run Sheet

Item #	Step Description	Team Responsible
01	Go to load file and pick 5 data records, load manually without any tool. See what happens. If all okay, proceed with the next step.	Data team
02	Go to load file and pick 10 records and load them with the tool. No action if the previous step has fallen. If not, then continue to load 10 records with the tool. Check if everything went okay.	Data team
03	Proceed with the full load if steps one and two were succeed else fix the issue with records	Data team
04	Validate few records loaded by accessing standard transactions from S/4HNA e.g. FTR_EDIT or check in the tables - VTBFHA, VTBFHAZU or VTBFHAPO	Data team
05	Generate post load report if step 5 is validated	Data team
06	Log errors as defects, if any and address resolutions. Close defects.	Data team
07	Resolve defects by reupload and re-generate post load reports if necessary.	Data team
08	Business to validate the post load files as part of post-load validation, raise data defects or provide the post-load sign-off.	Business
09	Repeat steps 1 to 5 if necessary.	Data team

Load Phase and Dependencies

The load phase for the object 9110 -Treasury Bonds is **Pre-Cutover Phase 3**

Configuration

Item #	Configuration Item
01	Company Codes relevant for Treasury- Field BUKRS (Check Table: T001)
02	Treasury Business Partners - BUT100
03	House Bank Ids- Field HKTID (Check Table: T012K)
04	Payment Methods- Field ZLSCH (Check Table: T042Z)
05	Contract Type - Field RANTYP

06	Product Category- Field SANLF (Check Table: TZAF)
07	Product Type- Field SGSART (Check Table: TZPA)
08	Financial Transaction Types- Field SFHAART (Check Table: AT10)
09	Portfolio Code - Check Table: TWPOB
10	General Valuation Class - Check Table: TRGC_COM_VALCL
11	Security Class – Check Table : VWPANLA
12	Security Account – TWD01

Conversion Objects

Object #	Preceding Object Conversion Approach
CNV-3007	Business Partner - General Role
CNV-1083	Bank Master
CNV-1184	Security Class
CNV-1185	Security Account
CNV-3040	Business Partner - Counterparty
CNV-1203	Business Partner - Depository
CNV-1182	Trader Authorization

Error Handling

The table below depicts some possible system errors for this data object during data load. All data load error is to be logged as defect and managed within the Defect Management

Error Type	Error Description	Action Taken
Valid Master	Business Partner is not having a valid treasury role i.e. TR0151	Ensure that Business Partner is updated with correct role
Invalid Company Code	Company Code in the DCT is invalid based on the check table T001	Ensure correct Company Code is supplied to the BAPI
Invalid Product Type	Product Type in the DCT is invalid based on the check table TZPA	Ensure correct Product Type is supplied to the BAPI
Invalid Transaction Type	Transaction Type in the DCT is invalid based on the check table AT10	Ensure correct Transaction Type is supplied to the BAPI
Invalid Trader	Trader in the DCT is invalid based on the check table TZDEA	Ensure correct Trader is supplied to the BAPI
Invalid Portfolio Code	Portfolio Code in the DCT is invalid based on the check table TWPOB	Ensure correct Portfolio Code is supplied to the BAPI
Invalid Interest Calculation Method	Interest Calculation Method is invalid as per the Custom Check Table	Ensure correct Interest Calculation method is supplied to the BAPI
Invalid Frequency Category	Frequency Category is invalid as per the Custom Check Table	Ensure correct Frequency Category is supplied to the BAPI

Post-Load Validation

Project Team

The following post load validations will be done by Project Team

Completeness

Task	Action
Reconciliation of Record Count	<p><u>Record Count</u> - Count and check how many records were loaded vs. Records in the load file (Each mock has it's own data record count)</p> <p>Check for logs from Load and fix erroneous records, if any.</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

The following post load validations will be done by business.

Completeness

Task	Action
Record Count Check	<p>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</p> <p>Business may also run transaction code FTR_EDIT to cross check the records created for Counterparties</p>

Accuracy

Task	Action
Field Checks	<p>Check key fields to ensure that Business Partner - Counterparty has been maintained with proper details such as</p> <ul style="list-style-type: none"> • Right Amount is loaded in the created deal • Correct Payment Details are loaded in the deal • Ensure Correct Interest Rate is loaded in the deal • Ensure correct Start and End Date are loaded in the created deal

Key Assumptions

- Master Data Standard is up to date as on the date of documenting this conversion approach and data load.
- All configuration items like Company Code, Product Type, Transaction Type, etc are approved by business and pre-configured before this data can be loaded
- All Bank Account information is approved by business and loaded in the system. Same are also created as SI details in BP master and assigned to the correct Product Type/Transaction Type combination in the BP master as these will be auto loaded in the deal and will not be part of the DCT.

See also

[CNV-3007: Business Partner General](#) - [CNV-3007 Business Partners - General \(Role 000000\)](#) - [SyWay Project](#) - [Syensqo](#) - [Wiki knowledge base](#)

[CNV-3040: Business Partner Counterparty](#) - [CNV-3040 Business Partners - Counterparty](#) - [SyWay Project](#) - [Syensqo](#) - [Wiki knowledge base](#)

[CNV-1184: Security Class](#) - [CNV-1184 Securities Class](#) - [SyWay Project](#) - [Syensqo](#) - [Wiki knowledge base](#)

[CNV-1185: Security Account](#) - [CNV-1185 Securities Account](#) - [SyWay Project](#) - [Syensqo](#) - [Wiki knowledge base](#)

[CNV-1203: Business Partner Depository](#) - [CNV-1203: Business Partner Depository](#) - [SyWay Project](#) - [Syensqo](#) - [Wiki knowledge base](#)

[CNV-1182: Trader Authorization](#) - [CNV-1182: Trader Authorization](#) - [SyWay Project](#) - [Syensqo](#) - [Wiki knowledge base](#)

Change log

Version	Published	Changed By	Comment
CURRENT (v. 25)	Apr 07, 2026 13:23	VIDWANS-ext, Sauradh	
v. 24	Mar 23, 2026 07:26	VIDWANS-ext, Sauradh	
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v. 22	Mar 23, 2026 07:14	VIDWANS-ext, Sauradh	
v. 21	Mar 23, 2026 07:09	VIDWANS-ext, Sauradh	
v. 20	Mar 23, 2026 07:06	VIDWANS-ext, Sauradh	
v. 19	Mar 23, 2026 07:02	VIDWANS-ext, Sauradh	
v. 18	Mar 23, 2026 06:59	VIDWANS-ext, Sauradh	
v. 17	Mar 23, 2026 05:55	VIDWANS-ext, Sauradh	
v. 16	Mar 18, 2026 13:51	VIDWANS-ext, Sauradh	

[Go to Page History](#)