

CNV-9053 TM-Freight Agreements

Status	Approved
Owner	OMER-ext, Mohammed
Stakeholders	

Purpose

The purpose of this document is to define the conversion approach to create TM-Freight agreements in S/4 HANA TM (Transportation management).

Freight agreements serve as contracts with companies providing transportation services, as well as service providers for transportation related services. They contain links to charge sheets for rates and validity dates. The parties involved in the contract are the purchasing organisation and the carrier.

The Freight Agreement represents the actual contract with the carrier/Freight forwarder. The Freight Agreement can have 1 to many Calculation Sheets, and each Calculation Sheet can have 1 to many Charge Types.

The data for freight agreements in S/4 would need to be constructed in data collection template (DCT).

Conversion Scope

The scope of this document covers the approach for creating Freight Agreements in S/4HANA following the [TM-Freight Agreements Master Data Design Standard](#).

This includes:

- Capturing and using the Freight agreements data in data collection template (DCT).
- Applying transformation logic via Syniti to conform with the S/4 HANA data model.
- Loading the transformed data into SAP S/4 HANA while ensuring data integrity.

The data from legacy system includes:

1. N/A (Manual data collection)

The data from legacy system excludes:

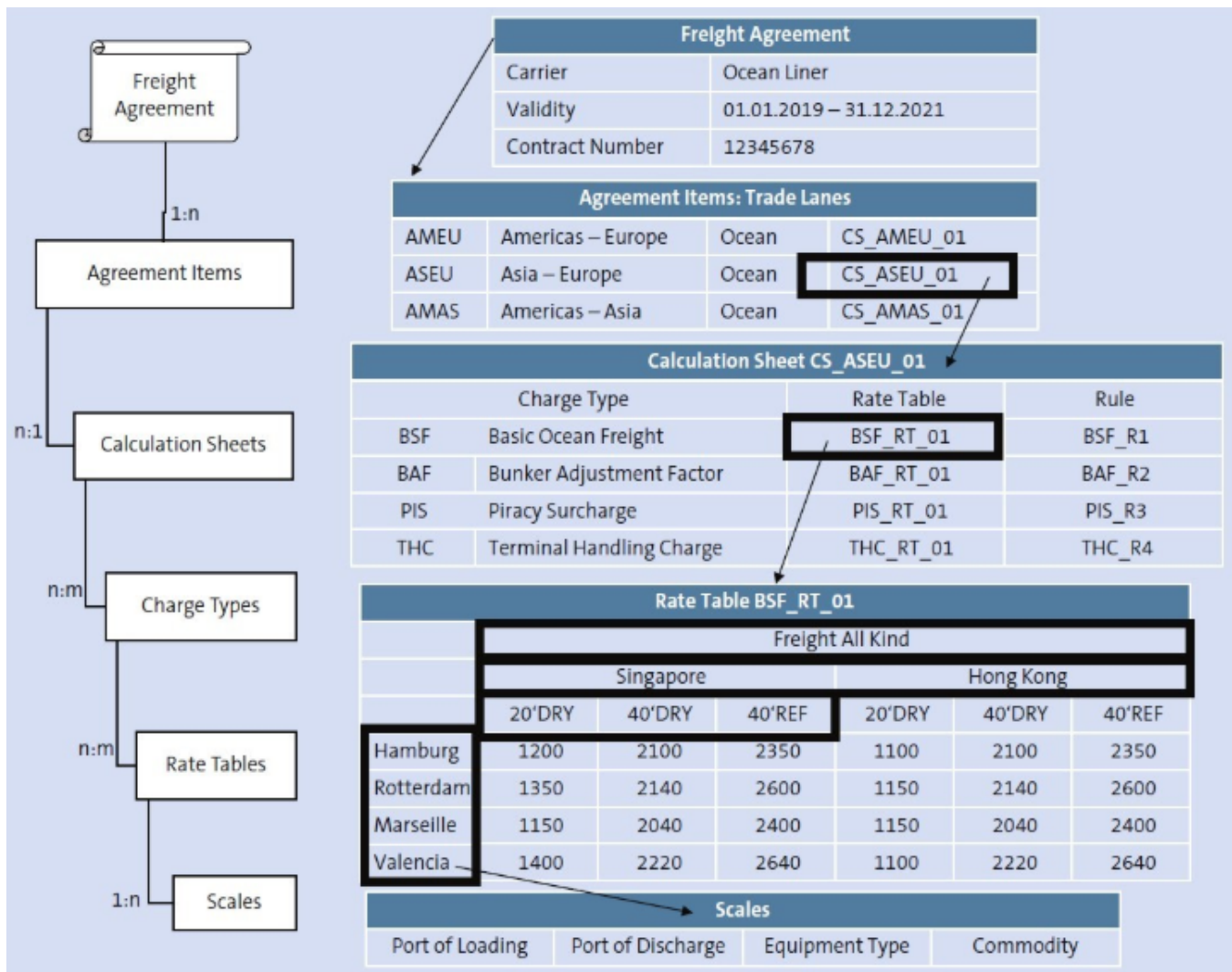
1. N/A (Manual data collection)

List of source systems and approximate number of records

Source	Scope	Source Approx No. of Records	Target System	Target Approx No. of Records
DCT	Creation of TM Freight Agreements	TBD	S/4 HANA (TM)	TBD

There are two key components i.e. Calculation sheet and Rate table which drive important functionality in Freight Agreement and they have to be created in DCT/SAP before they can be referenced in the Freight Agreement.

The below diagram shows the relationship between the different components (the data in the diagram is for illustration purposes).



[SAP Press Book: Transportation Management with SAP S/4HANA]

DCT pages should be built for the following components as part of 9053 Freight Agreement object.

- Freight Agreement header and items
- Calculation sheet header and items (this gets referenced in the agreement line item)
- Rate table header and items (this gets referenced in the calculation sheet)

There should be at least one calculation sheet and one rate table in the Freight Agreement.

TM functional team have mentioned that they would create the structure for rate tables in SAP S/4 system as a design activity. These would then be used for uploading the relevant rate table data in SAP using the excel integration feature (to download template and upload the populated data). Data team would create the Freight Agreement and calculation sheet data in SAP as part of data load activities.

The DCT design for rate tables would need to be reviewed at a later stage to see if any adjustments are required for the DCT as a result of the above described approach.

TM and Procurement data owner (business) would need to collaborate closely on maintaining the correct Outline Agreement (Purchase Contract) in the Freight Agreement DCT.

Additional Information

Multi-language Requirement

Not Applicable.

Document Management

Not Applicable.

Legal Requirement

Not Applicable.

Special Requirements

Not Applicable.

Target Design

The complete information of the key fields that hold the Freight agreements information follows the Master Data Standard document.

The technical design of the target for this conversion approach.

Table	Field	Data Element	Field Description	Data Type	Length	Requirement	Notes
/SCMTMS /D_FAGROT	FAGRMNTID044	FAGRMNTID044	Agreement	CHAR	20	Required	Agreement Name assigned by system or manually
/SCMTMS /D_FAGROT	FAGTYPEID103	FAGTYPEID103	Agreement Type	CHAR	4	Required	
/SCMTMS /D_FAGRTT	MNEMONIC	MNEMONIC	Agreement Description	CHAR	30	Required	
/SCMTMS /D_FAGROT	TIMEZONE	TIMEZONE	Time Zone	CHAR	6	Required	
/SCMTMS /D_FAGROT	FAGUSAGEID105	FAGUSAGEID105	Agreement Usage	CHAR	3	Optional	Default to 2
/SCMTMS /D_FAGROT	VALIDITY_START	VALIDITY_START	Start Date of Validity	NUM (DATE)	8	Required	
/SCMTMS /D_FAGROT	VALIDITY_END	VALIDITY_END	End Date of Validity	NUM (DATE)	8	Required	
/SCMTMS /D_FAGCTR	ORG_UNIT	ORG_UNIT	Purchasing Organization	CHAR	8	Required	
/SCMTMS /D_FAGPTY	PTYINTID_ID133_I	PTYINTID_ID133_I	Carrier	CHAR	10	Required	
/SCMTMS /D_FAGROT	DOC_CURRENCY	DOC_CURRENCY	Document Currency	CHAR	5	Required	
/SCMTMS /D_FAGROT	STATUS	STATUS	Agreement Status	CHAR	2	Required	
/SCMTMS /D_FAGROT	EXTERNAL_FA_ID	EXTERNAL_FA_ID	External Freight Agreement	CHAR	35	Optional	Conditional. Needed only if the freight agreement also exists in the external system.
/SCMTMS /D_FAGROT	ZOUTAGR	ZOUTAGR	Outline Agreement	CHAR	20	Required	ID of the contract negotiated by Procurement Team
/SCMTMS /D_FAGITM	ITEM_NO	ITEM_NO	Item number	NUM	10	Required	
/SCMTMS /D_FAGITM	TCCS_ID	TCCS_ID	Calculation Sheet	CHAR	20	Optional	Conditional. Not necessary if Spot Tender.
/SCMTMS /D_FAGITM	MOT	MOT	Mode of Transport	CHAR	2	Optional	Conditional. Necessary only if the forwarder has several different services to offer and hence different pack of rates
/SCMTMS /D_TCCSRT	TCCS_ID047	TCCS_ID047	Calculation Sheet	CHAR	20	Required	
/SCMTMS /D_TCCSTX	DESCRIPTION	DESCRIPTION	Description	CHAR	75	Required	
/SCMTMS /D_TCCSRT	TCUSAGECD085	TCUSAGECD085	Charge Usage	CHAR	3	Required	
/SCMTMS /D_TCCSRT	TIMEZONE	TIMEZONE	Time Zone	CHAR	6	Required	
/SCMTMS /D_TCCSIT	LINENR	LINENR	Line No.	NUM	6	Required	
/SCMTMS /D_TCCSIT	TCET084	TCET084	Charge Type	CHAR	15	Required	

/SCMTMS /D_TCCSIT	CURRCODE0 16	CURRCODE0 16	Currency	CHAR	5	Optional	Conditional. Only used if manually input the amount.
/SCMTMS /D_TCCSIT	UUID026	UUID026	Rate Table	CHAR	16	Optional	Conditional. Only used when charge type uses rate table to retrieve pricing
/SCMTMS /D_TCCSIT	AMOUNT	AMOUNT	Amount	NUM	28	Optional	Conditional. Only used for fix price rates.
/SCMTMS /D_TCCSIT	MANUAL_EN TRY	MANUAL_EN TRY	Manual Charge Item	CHAR	1	Optional	Conditional. Only used when charge type is considered manually-input.
/SCMTMS /D_TCRATE	RATE_ID	RATE_ID	Rate Table	CHAR	20	Required	
/SCMTMS /D_TCRATTX	DESCRIPTION	DESCRIPTION	Description	CHAR	75	Required	
/SCMTMS /D_TCRATE	TCUSAGECD 085	TCUSAGECD 085	Charge Usage	CHAR	3	Required	
/SCMTMS /D_TCRATE	TIMEZONE	TIMEZONE	Time Zone	CHAR	6	Required	
/SCMTMS /D_TCRATE	RATE_SPLIT	RATE_SPLIT	Rate Validity Split	CHAR	1	Required	
/SCMTMS /D_TCRATE	ARCHIVING_ STATUS	ARCHIVING_ STATUS	Archiving Status	CHAR	2	Automatic	Not relevant for data collection
/SCMTMS /D_TCRATE	MULTI_CHRG _TYPE	MULTI_CHRG _TYPE	Multiple Charges Types Allowed	CHAR	1	Required	Rate Table can be used for one single charge type or many. This flag controls it.
/SCMTMS /D_TCRATE	TCET	TCET	Charge Type	CHAR	15	Optional	Conditional. Only used if "Multiple Charge Types Allowed" is flagged.
/SCMTMS /D_TCRATE	VAL_INDICAT OR	VAL_INDICAT OR	Value Type	CHAR	1	Required	Absolute value or percentage values in Rate Table.
/SCMTMS /D_TCRATE	RATE_TAB_T YPE	RATE_TAB_T YPE	Rate Table Type	CHAR	4	Required	
/SCMTMS /D_TCRTSR	DIMENSION_I NDX	DIMENSION_I NDX	Scale No.	NUM	2	Automatic	
/SCMTMS /D_TCRTSR	GLOBAL_SCA LE_ID	GLOBAL_SCA LE_ID	Scale	CHAR	20	Required	Variable type within the rate table that help determine the proper value.
/SCMTMS /D_TCRTSR	CALC_BASE	CALC_BASE	Calculation Base	CHAR	15	Required	Variable base within the rate table that help determine the proper value. It has only one Scale.
/SCMTMS /D_TCRTSR	SCATYP	SCATYP	Scale Type	CHAR	1	Required	
/SCMTMS /D_TCRTSR	CURRENCY_ REL	CURRENCY_ REL	Scale Relevant for Currency Maintenance	CHAR	1	Required	Whether the scale used needs to have a specific currency out of the Header currency of the Rate Table
/SCMTMS /D_TCRTSR	MINVAL_SUP PORTED	MINVAL_SUP PORTED	Minimum Value	CHAR	1	Optional	Conditional. Only for those cases where a minimum amount is to be paid
/SCMTMS /D_TCRTSR	MAXVAL_SUP PORTED	MAXVAL_SUP PORTED	Maximum Value	CHAR	1	Optional	Conditional. Only for those cases where a maximum amount is to be paid
/SCMTMS /D_SCAH1	SCALEBASE	SCALEBASE	Scale Base	CHAR	6	Automatic	Automatic. Set by the system once "Calculation Base" is selected. Not relevant for data collection
/SCMTMS /D_SCAIT2	CALC_TYP	CALC_TYP	Calculation type	CHAR	1	Required	
/SCMTMS /D_SCAIT2	UOM	UOM	Scale UoM	CHAR	3	Required	
/SCMTMS /D_TCRTVP	VALID_STAR T_DT	VALID_STAR T_DT	Valid-from date	NUM (DATE)	8	Required	
/SCMTMS /D_TCRTVP	VALID_END_ DT	VALID_END_ DT	Valid-to date	NUM (DATE)	8	Required	
/SCMTMS /D_TCRTVP	CURRENCY	CURRENCY	Currency	CHAR	5	Required	

Data Cleansing

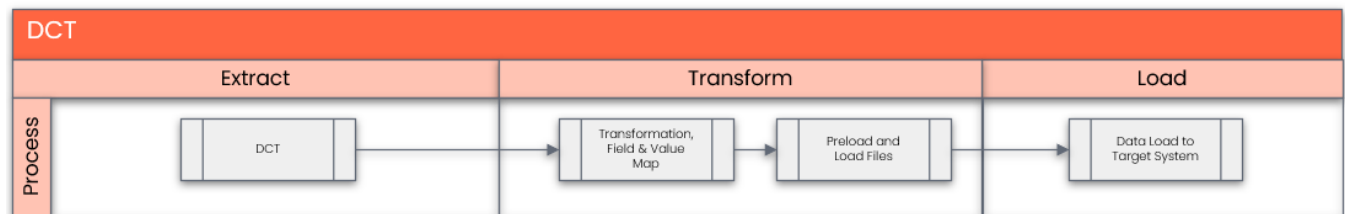
Freight agreements data will be populated directly in the Data Collection Template (DCT).

ID	Criticality	Error Message/Report Description	Rule	Output	Source System

Conversion Process

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

Please note that the data may have to be loaded in multiple target systems (US instance, China instance and RoW).



Data Privacy and Sensitivity

Extraction

The data does not exist (or cannot be converted from its current state). The data is manually collected by the business directly in Syniti ADMM. This is to be conducted using DCT (Data Collection Template).

Extraction Run Sheet

Req #	Requirement Description	Team Responsible
1	Data is populated in the DCT or uploaded from downloaded Excel template	Data owner (Business)
2	If the data is uploaded to DCT in bulk via excel template, any upload errors need to be reviewed and corrected	Data owner (Business), Syniti/ Data Team
3	The data which has passed validation checks in DCT will be used for transformation/further processing	Syniti

Selection Screen

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

Data Collection Template (DCT)

Target Ready Data Collection Template will be created for TM Freight Agreement data with exception of some fields which require transformation as mentioned in the transformation rule.

Please refer to the below Google sheet for the DCT rules.

Field Name	Field Description	Rule

Extraction Dependencies

Item #	Step Description	Team Responsible

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
1	Capture the data for Freight agreements in DCT. Review and correct any errors if bulk uploading data via downloaded excel DCT template.	Business team
2	Ensure the mapping tables which are needed during transformation have been reviewed and signed off by business.	Business team, Data Team (SCM)
3	Obtain DCT Sign-off from Business	Data Team (SCM)
4	Generate Pre-Load reports	Data Team (Syniti)
5	Review and Validate Error and Preload Reports	Data Team (SCM)
6	Log errors as defects, if any and address resolutions.	Data Team (SCM)
7	Re-transform and re-validate the Pre-load reports if necessary.	Data Team (SCM), Data Team (Syniti)
8	Obtain preload validation sign-off from Business	Business + Functional (SCM) + Data Team (SCM)
9	Generate Load Files	Data Team (Syniti)

Transformation Rules

Please check the attached file for the complete source-to-target field mapping, validation checks and proposed error messages. The validation checks list is not exhaustive and may change over time as the design and configuration of the system evolves.

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic	Notes
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	DCT				SAP S/4 HANA	/SCMTMS /D_FAGROT	FAGRMNT ID044	Agreement	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_FAGROT	FAGTYPEI D103	Agreement Type	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_FAGRTT	MNEMONIC	Agreement Description	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_FAGROT	TIMEZONE	Time Zone	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_FAGROT	FAGUSAG EID105	Agreement Usage	Default to 2	
	DCT				SAP S/4 HANA	/SCMTMS /D_FAGROT	VALIDITY_ START	Start Date of Validity	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_FAGROT	VALIDITY_ END	End Date of Validity	Direct Mapping	Must be later than Valid From date.
	DCT				SAP S/4 HANA	/SCMTMS /D_FAGCTR	ORG_UNIT	Purchasing Organization	Direct Mapping	
	DCT	N/A	zLegacySys	Field to capture legacy source system	SAP S/4 HANA	N/A	zLegacySys	Carrier Source system	This will be used together with legacy vendor (carrier) in determining the new (S4) BP number	
	DCT				SAP S/4 HANA	/SCMTMS /D_FAGPTY	PTYINTID _ID133_I	Carrier	Value mapping: Use the legacy to SAP vendor mapping table to determine the new (S4) BP number	Carrier (Business partner) should exist in SAP.
	DCT				SAP S/4 HANA	/SCMTMS /D_FAGROT	DOC_CUR RENCY	Document Currency	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_FAGROT	STATUS	Agreement Status	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_FAGROT	EXTERNA L_FA_ID	External Freight Agreement	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_FAGROT	ZOUTAGR	Outline Agreement	Value mapping: Use the legacy to SAP Purchase contract table to determine the new (S4) purchase contract /Outline Agreement number	Outline Agreement /Purchase Contract should exist in SAP.
	DCT				SAP S/4 HANA	/SCMTMS /D_FAGITM	ITEM_NO	Item number	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_FAGITM	TCCS_ID	Calculation Sheet	Direct Mapping	Calculation sheet has to exist in SAP before it can be referenced in the FA line item
	DCT				SAP S/4 HANA	/SCMTMS /D_FAGITM	MOT	Mode of Transport	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCCSRT	TCCS_ID0 47	Calculation Sheet	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCCSTX	DESCRIP TION	Description	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCCSRT	TCUSAGE CD085	Charge Usage	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCCSRT	TIMEZONE	Time Zone	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCCSIT	LINENR	Line No.	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCCSIT	TCET084	Charge Type	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCCSIT	CURRCO DE016	Currency	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCCSIT	UUID026	Rate Table	Direct Mapping	Rate table has to exist in SAP before it can be referenced here
	DCT				SAP S/4 HANA	/SCMTMS /D_TCCSIT	AMOUNT	Amount	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCCSIT	MANUAL_ ENTRY	Manual Charge Item	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCRATE	RATE_ID	Rate Table	Direct Mapping	

	DCT				SAP S/4 HANA	/SCMTMS /D_TCRTTX	DESCRIPTION	Description	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCRATE	TCUSAGE CD085	Charge Usage	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCRATE	TIMEZONE	Time Zone	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCRATE	RATE_SPLIT	Rate Validity Split	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCRATE	MULTI_CHRG_TYPE	Multiple Charges Types Allowed	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCRATE	TCET	Charge Type	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCRATE	VAL_INDICATOR	Value Type	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCRATE	RATE_TABLE_TYPE	Rate Table Type	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCRTSR	DIMENSION_INDEX	Scale No.	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCRTSR	GLOBAL_SCALE_ID	Scale	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCRTSR	CALC_BASE	Calculation Base	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCRTSR	SCATYP	Scale Type	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCRTSR	CURRENCY_REL	Scale Relevant for Currency Maintenance	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCRTSR	MINVAL_SUPPORTED	Minimum Value	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCRTSR	MAXVAL_SUPPORTED	Maximum Value	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_SCAIT2	CALC_TYP	Calculation type	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_SCAIT2	UOM	Scale UoM	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCRTVP	VALID_START_DT	Valid-from date	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCRTVP	VALID_END_DT	Valid-to date	Direct Mapping	
	DCT				SAP S/4 HANA	/SCMTMS /D_TCRTVP	CURRENCY	Currency	Direct Mapping	

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

Transformation Mapping

Field name	Mapping Table Name	Mapping Table Description
/SCMTMS/D_FAGPTY-PTYINTID_ID133_I	Vendor Number	LIFNR: Old Vendor Code to New Vendor Code cross reference
/SCMTMS/D_FAGROT-ZOUTAGR	Outline Agreement (Purchase Contract)	TBD

Transformation Dependencies

List the steps that need to occur before transformation can commence

Item #	Step Description	Team Responsible
1	Dependent Master Data records for Carriers (business partners) and Outline Agreements (Purchase Contracts) are loaded	Functional Team (SCM) + Data Team (SCM)
2	Value Mappings are according to the latest design	Functional Team (SCM) + Data Team (SCM)

3	SAP Transportation management configuration for Freight agreements is complete	Functional Team (SCM)
4	Ensure DCT tables completeness	Data Team (SCM)

Pre-Load Validation

Project Team

Completeness

Task	Action
Check Values	Validate the pre-load data confirming the values are aligned with target system format
Validate template structure and required field population	Ensure mandatory fields like Agreement Type, Means of Transport, Description, Purchasing Organization, Carrier, validity dates are filled
Verify Record Count	SCM Data Team to verify that the total number of relevant records from the DCT is equal to the total number of records in the Preload and Load Sheets.

Accuracy

Task	Action
Conversion Accuracy	SCM Data Team to verify that all fields below meet pass the checks: 1. Mandatory Fields 2. Field and Value Mapping Correctness 3. Null Checks 4. Text Length Checks
Perform format validation (date, currency, decimal separators)	Standardize format to match SAP accepted input (e.g., YYYYMMDD for dates)
Review Error Reports	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.
Conduct dry runs using LTMC or BAPIs and review logs	Analyze load results and correct format or conversion errors

Business

Completeness

Task	Action
Provide relevant data	Business Data Owners to provide the required data in DCT which will be used in transportation planning and execution processes.
Verify Record Count	Business Data Owner/s to verify that the total number of relevant records from the the DCT is equal to the total number of records in the Preload validation file.

Accuracy

Task	Action
Conversion Accuracy	Business Data Owner/s to verify that all the data in the preload validation file is accurate as per endorsed transformation /mapping rules (and signed-off DCT data). Review error reports in tool for any mismatch or missing transformed values.

Load

The load process includes:

1. Execute the automated data load into target system using load tool or produce the load file if the load must be done manually
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_DCT, 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)

Custom load tool will need to be developed for loading rate table, calculation sheet and Freight Agreement data. There is no known standard SAP mass upload tool for Freight Agreement.

The load file format can be finalized when the load tool is developed.

Please refer to the below SAP community post for more information.

<https://community.sap.com/t5/supply-chain-management-q-a/creation-of-freight-agreement-using-excel-integration/qaq-p/11756669>

Load Run Sheet

Item #	Step Description	Team Responsible
1	Ensure the load tools are transported into the correct system/instance.	Data Team (SCM)
2	Ensure Pre-load sign-offs are obtained.	Data Team (SCM)
3	Execute upload of Freight agreements using custom load program.	Data Team (SCM)
4	Validate few records loaded by accessing standard transactions from S/4HNA E.g. Fiori app 'Display Freight Agreement'.	Data Team (SCM)
5	Generate the post load reports in tool.	Data Team (SCM), Data Team (Syniti)
6	Log errors as defects, if any and address resolutions. Close defects.	Data Team (SCM)
7	Resolve defects by reupload and re-generate post load reports if necessary.	Data Team (SCM), Data Team (Syniti)
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 team
9	Repeat steps 5 to 7 if necessary.	Data Team (SCM), Data Team (Syniti)

Load Phase and Dependencies

Freight agreements data will be loaded in the cutover window.

Configuration

Item #	Configuration Item
1	SAP Transportation management configuration • Freight Agreement type (/SCMTMS/C_FATYPE-FAGTYPEID103) • Rate table types (/SCMTMS/C_RATEY-RATE_TAB_TYPE) • Charge types (/SCMTMS/C_TCET-TCET084) • Calculation base (/SCMTMS/C_CBASE-CALC_BASE)
2	SAP USER profile (SU3) Date and Decimal Notation Formats are in sync with the load format

3	Purchasing Organization configuration (Enterprise structure)
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Conversion Objects

Object #	Preceding Object Conversion Approach
3016	Business Partners - Transporters/Forwarders
1051	TM Location
1052	Transportation Zones
1042	Transportation Lanes
9040	Purchase Contracts

Error Handling

As part of the [Freight agreements](#) data load to S/4HANA using the Syniti data migration tool, various data quality, configuration, and technical challenges may arise.

The following table outlines the most commonly observed error types during data load, and the corrective actions typically taken to resolve them. This helps ensure consistency in issue handling, improves traceability during cutover, and supports smooth end-to-end execution of the transportation lanes load.

Error Type	Error Description	Action Taken
Configuration	Invalid or missing Freight agreement type (example)	Engage Functional team to expedite and fix the error in the system
Formatting Errors	One or more key fields (e.g., partner) are incorrectly formatted	Ensure formatting is done correctly (e.g., leading zeros for partner). (Leading zero requirement will be confirmed when loading tool is available/tested)
Authorization Errors	Lack of access to execute load in target client/system	Raised access request; obtained necessary authorizations
Transformation Miss	Required transformation logic not applied before load	Re-applied transformation rules and revalidated source-target mapping
Technical Load Failure	File not processed due to syntax /format error or system issue	Reviewed logs; regenerated file; re-executed load after resolving issue

Post-Load Validation

Project Team

Completeness

Task	Action
Run Fiori app/tcode to check loaded data in SAP	Run Fiori app 'Display Freight Agreement' to check if data has been loaded
Compare uploaded data against source file values	Use Custom reconciliation tools e.g. SQL Server or Excel based comparison tools to validate the number of records loaded against the load file record volume
Check for load errors in load tool	Review custom load tool or Legacy Transfer Migration Cockpit LTMC logs for any failures

Accuracy

Task	Action
Compare uploaded data against source file values	Use automated postload validation report or standard reports from S/4 HANA to validate field by field value match across all loaded records

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Business

Completeness

Task	Action
Verify Count	Download Postload validation reports from Syniti and verify that the record count loaded in the target S/4 HANA is the same count as of the endorsed load file
Review loaded Freight agreements	Access the S/4HANA system (via Fiori app Display Freight Agreement) to view loaded Freight agreements

Accuracy

Task	Action
Compare Against Approved Load File	Cross-check data in S/4HANA against the final business-approved load file used for migration
Validate Accuracy of Converted/Transformed Data	Review any transformed fields (e.g., business partner number) for correctness
Log and Report Discrepancies	Use provided discrepancy log format or defect management tool to report any findings

Key Assumptions

- Master Data Standard is up to date as on the date of documenting this conversion approach and data load.
- Freight agreements is in scope based on data design and any exception requested by business.
- Data entries in DCT are target-ready data unless a specific transformation rule is stated for that field in the transformation rules.
- The list of validation checks in transformation section is not exhaustive and may change over time as the design and configuration of the system evolves.
- *Any additional key assumptions.*

See also

Change log

Version	Published	Changed By	Comment
CURRENT (v. 22)	Mar 08, 2026 17:07	OMER-ext, Mohammed	Captured 5 additional fields needed for Scales in rate tables
v. 21	Mar 04, 2026 11:48	OMER-ext, Mohammed	Corrected the transformation logic for field Outline Agreement to Value mapping
v. 20	Jan 09, 2026 17:25	OMER-ext, Mohammed	
v. 19	Jan 09, 2026 17:02	OMER-ext, Mohammed	
v. 18	Jan 05, 2026 16:30	OMER-ext, Mohammed	
v. 17	Dec 19, 2025 08:06	OMER-ext, Mohammed	
v. 16	Dec 17, 2025 15:38	OMER-ext, Mohammed	

v. 15	Dec 17, 2025 14:20	OMER-ext, Mohammed
v. 14	Dec 17, 2025 09:48	OMER-ext, Mohammed
v. 13	Dec 16, 2025 20:43	OMER-ext, Mohammed

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Workflow history

Title	Last Updated By	Updated	Status
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.

May 08, 2026	Actor	Type	Activity	Version
Approved	 MCARDLE-ext, Edward	State	changed state to Approved at 11:15 am	v22
Revision under Review	 MCARDLE-ext, Edward	State	gave <i>Minor change</i> approval at 11:15 am	
		State	changed state to Revision under Review at 11:15 am	v22
Mar 18, 2026				
Revision in Progress	WENNINGER-ext, Sascha	State	changed state to Revision in Progress at 5:48 pm	v22
From Mar 04, 2026 to Mar 08, 2026				
Edited following Approval	 OMER-ext, Mohammed	Edit	updated the page at 11:48 am	
	 OMER-ext, Mohammed	State	changed state to Edited following Approval at 10:48 am	v21