

Communication Management NaviTrans v11.0

Table of Contents

1	Introduction	3
2	Setup.....	4
2.1	EDI Setup	4
2.2	Job Queue.....	5
2.3	Job Queue Category.....	6
2.4	Job Queue Entries	7
2.4.1	Import Job Queue Entry	7
2.4.2	Export Job Queue Entry	8
2.5	Partners	9
2.6	Conversion Groups	10
2.7	Import Codes.....	11
2.8	Export Codes	16
2.9	Customer WMS Outgoing File Parameters.....	20
2.10	Message Type Parameters	21
3	EDI Mapping/XML Structure	22
4	Processing Incoming Files in NaviTrans.....	22
4.1	Documents to Import	22
4.2	Documents	23
4.3	Buffer	25
4.3.1	Files	26
4.3.2	Order List	28
4.3.3	Item List	28
4.4	Conversions.....	28
5	Processing Outgoing Files from NaviTrans	30
5.1	Export Flow.....	30
5.2	Trigger of Export Files	30
5.3	Documents	30
5.4	Conversions	30

1 Introduction

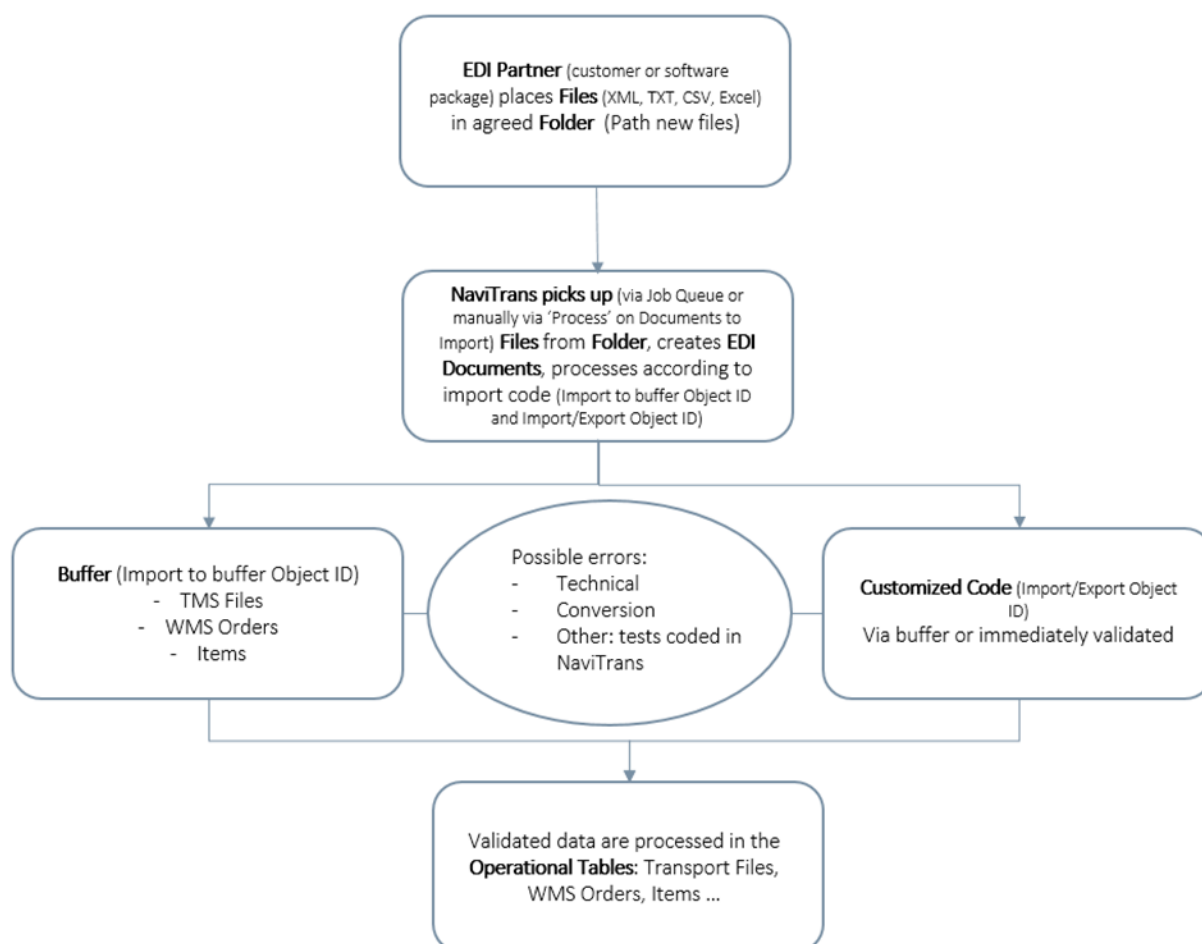
Communication Management in NaviTrans offers a generic framework that easily integrates with systems like for example Intrtra, Transporeon, Transwide, PSA, Teleroute or any other EDI system. Also E-NaviTrans, the NaviTrans online tool, works with Communication Management.

Files are placed on a server, or via web service, after which they are processed in the Communication Module in NaviTrans.

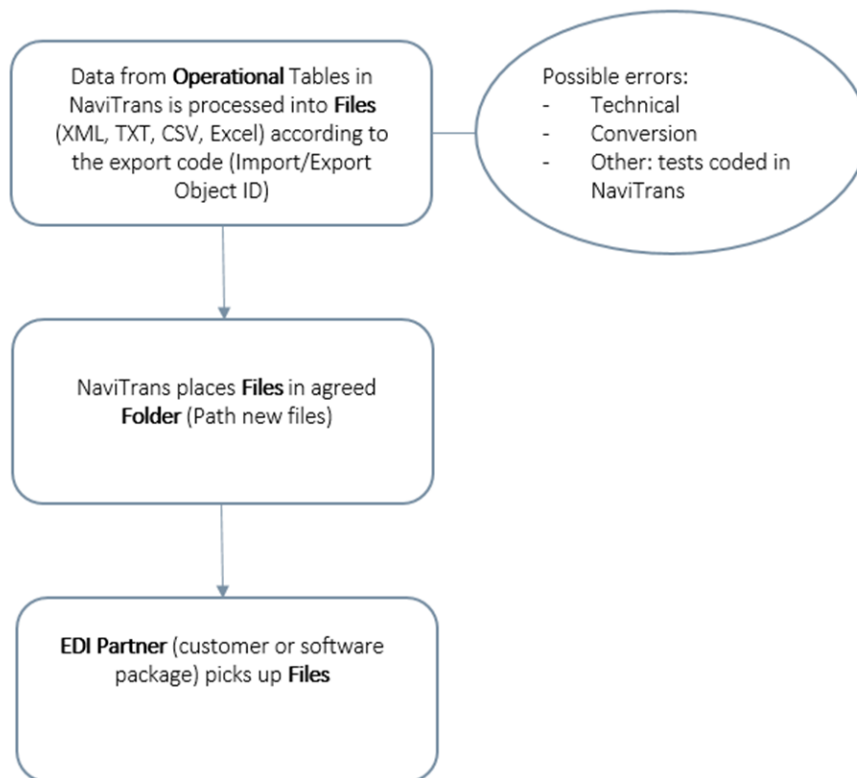
The Communication Management module enables the import of files (manually or automatically (NAS/Job Queue)). For each import code, you can define the file type (XML, TXT...). The Communication Module offers a data validation step. This way the database is not polluted with for example double transport addresses, items...

The Communication Management module is also used to export data from NaviTrans in files and put these files on a server for the third party to pick up and/or send these files via mail, using mail templates.

Import Flow



Export Flow



2 Setup

2.1 EDI Setup

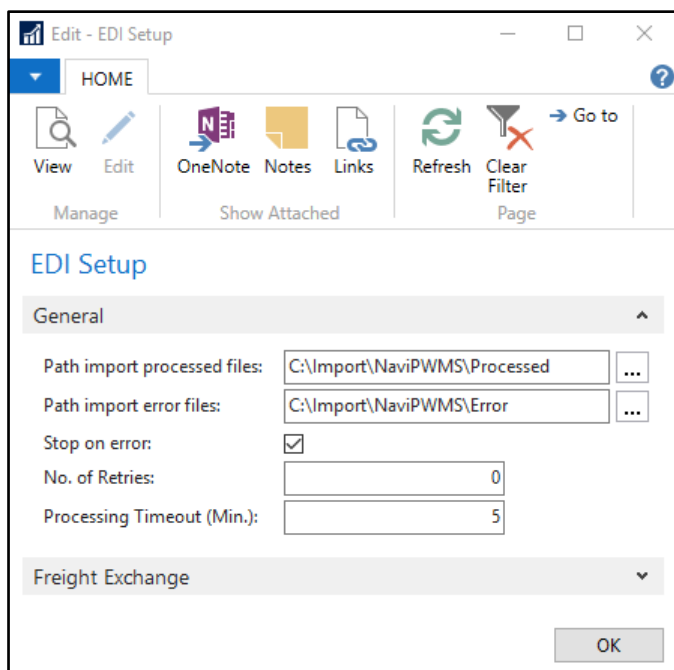
Purpose

The Setup is different for each communication system. In the Communication Management module, NaviTrans offers a Setup page for E-NaviTrans, Intra, Transporeon, PSA, Teleroute and the general EDI Setup.

The general EDI Setup is described in this document.

For a detailed description of the setup of the other communication systems, we refer to separate documents.

Example



Description

Path: NaviTrans Transport & Forwarding, Communication Mgt., Setup, EDI Setup or
NaviTrans Warehousing, Communication Mgt., Setup, EDI Setup

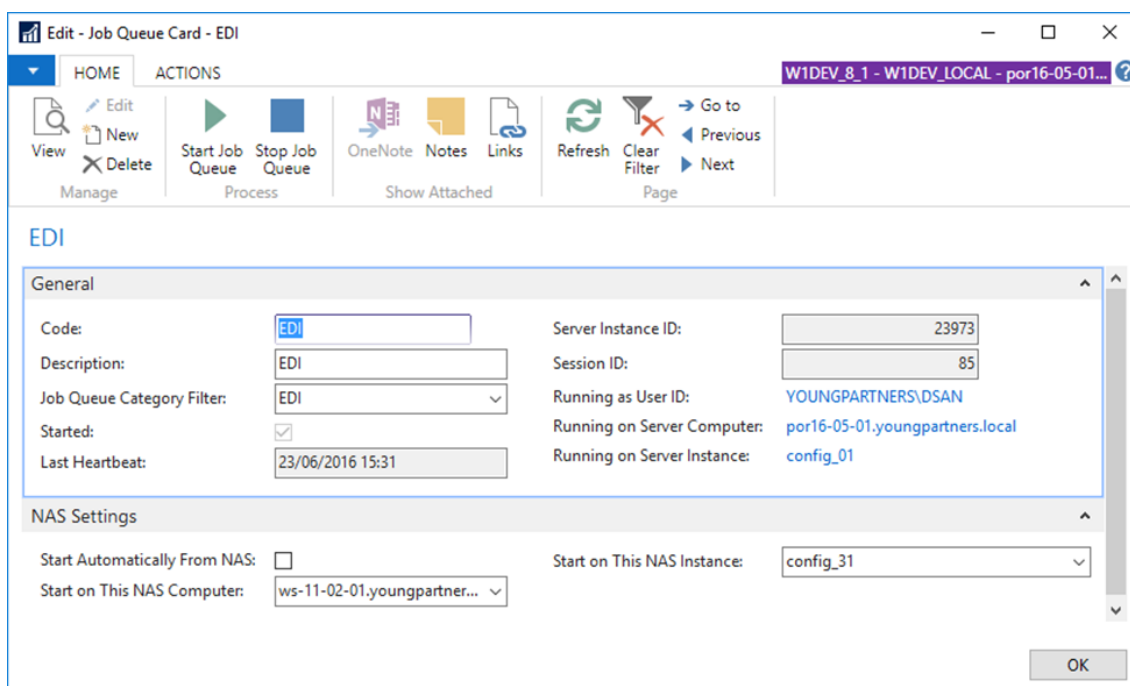
FastTab	Field	Description
General	Path import processed files	Specifies the default path for imported files. This path is used if no path is defined on the export codes, see description later.
	Path import error files	Specifies the default path for imported files with errors. This path is used if no path is defined on the export codes, see description later.
	Stop on error	Check mark to stop the export when an error occurs. This is used for debugging.
	No. of Retries	Specifies the number of times NaviTrans tries to import the file before placing it in the Path error files.
	Processing Timeout (Min.)	The minimum value is 5 minutes. In case the Job Queue detects files with the status "In Process" that exceed the timeout value, NaviTrans performs the following steps: - NaviTrans tries to process the file once again. - If a second timeout is received, you receive an error. (This to avoid queries that run too long).
Freight Exchange	Used for Freight Exchange platforms, for example 'Teleroute'. This is described in a separate document.	

2.2 Job Queue

Purpose

A Job Queue is used for automatic import and export of EDI messages.

Example



Description

Path: Administration, Application Setup, Job Queue, Job Queues

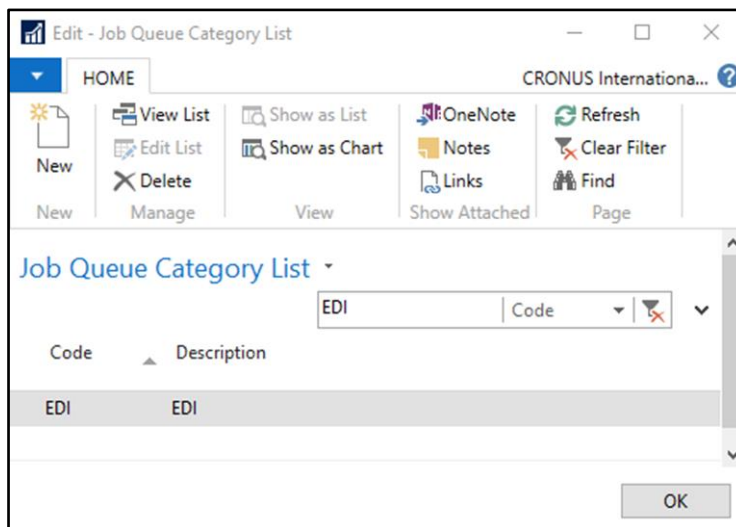
FastTab	Field	Description
General	Code & Description	Specifies the code and description.
	Job Queue Category Filter	Specifies the Job Queue Category.
	Started	Automatically check marked when the job queue is active.
	Last Hearbeat	Specifies the time of the last activity of the job queue.
	Server Instance ID	Specifies the server instance ID.
	Session ID	Specifies the session ID.
	Running as User ID	Specifies the User ID in NaviTrans.
	Running on Server Computer	Specifies the Server Computer.
	Running on Server Instance	Specifies the Server Instance.
NAS Settings	For a description, see Installation manual.	

2.3 Job Queue Category

Path: Administration, Application Setup, Job Queue, Job Queue Category List

A Job Queue Category is a **Code** and **Description** used in the Job Queue Card and Job Queue Entry Card. You can link a Job Queue Category to a Job Queue. When the Job Queue is executed, only the Job Queue Entries with the linked Job Queue Category are executed.

Example



2.4 Job Queue Entries

On the Job Queue Entry Card, you can define the Object that the Job Queue has to run to pick up files from a server and import them in NaviTrans. In the Recurrence part, you can define the frequency that the Job Queue has to run. For EDI, you have an Import Job Queue Entry and an Export Job Queue Entry.

Path: Administration, Application Setup, Job Queue, Job Queue Entries

2.4.1 Import Job Queue Entry

Example

New - Job Queue Entry Card - Codeunit - 2032121 - Job Queue - Import Docs NVT

HOME ACTIONS NAVIGATE W1DEV_8.0 - W1_Support_NVT_9.0...

View Edit New Delete Manage Set Status to Ready Set On Hold Process Show Error Restart Log Entries Report Request Page Report OneNote Notes Links Show Attached Refresh Clear Filter Previous Next Go to Page

Codeunit - 2032121 - Job Queue - Import Docs NVT

General

Object Type to Run: Codeunit
Object ID to Run: 2032121
Object Caption to Run: Job Queue - Import Docs NVT
Description: Job Queue - Import Docs NVT
Parameter String:
Job Queue Category Code: EDI
User ID: YOUNGPARTNERS\HVEE
Timeout (sec.): 0

Maximum No. of Attempts to Run: 0
Last Ready State: 23/06/2016 16:14
Earliest Start Date/Time:
Expiration Date/Time:
Priority: 1000
Run in User Session:
Status: On Hold

Recurrence

Recurring Job: ☒
Run on Mondays: ☒
Run on Tuesdays: ☒
Run on Wednesdays: ☒
Run on Thursdays: ☒
Run on Fridays: ☒
Run on Saturdays: ☐
Run on Sundays: ☒
Starting Time:
Ending Time:
No. of Minutes between Runs: 0

OK

Description

Below we describe the fields specific to the Import Job Queue Entry for Communication Management. For a description of the other fields, we refer to standard Navision manuals.

Field	Description
Object Type to Run	Select 'Codeunit'.
Object ID to Run	Fill in '2032121 Job Queue – Import Docs NVT'.
Job Queue Category Code	Fill in the Job Queue Category code for EDI.
No. of Minutes between Runs	'1': every minute, '0': 1 x per day.

2.4.2 Export Job Queue Entry

Example

New - Job Queue Entry Card - Codeunit - 2032126 - Job Queue - Export Doc NVT

HOME ACTIONS NAVIGATE W1DEV_8.0 - W1_Support_NVT_9.0...

View Edit New Delete Manage Set Status to Ready Set On Hold Process Show Error Restart Log Entries Report Request Page Report OneNote Notes Links Show Attached Refresh Clear Filter Previous Next Go to Page

Codeunit · 2032126 · Job Queue - Export Doc NVT

General

Object Type to Run: Codeunit Maximum No. of Attempts to Run: 0
Object ID to Run: 2032126 Last Ready State: 23/06/2016 16:22
Object Caption to Run: Job Queue - Export Doc NVT
Description: Job Queue - Export Doc NVT
Parameter String:
Job Queue Category Code: EDI
User ID: YOUNGPARTNERS\HVEE
Timeout (sec.): 0
Earliest Start Date/Time:
Expiration Date/Time:
Priority: 1000
Run in User Session:
Status: On Hold

Recurrence

Recurring Job: ☒ Run on Saturdays: ☒
Run on Mondays: ☒ Run on Sundays: ☒
Run on Tuesdays: ☒ Starting Time:
Run on Wednesdays: ☒ Ending Time:
Run on Thursdays: ☒ No. of Minutes between Runs: 0
Run on Fridays: ☒

OK

Description

Below we describe the fields specific to the Export Job Queue Entry for Communication Management. For a description of the other fields, we refer to standard Navision manuals.

Field	Description
Object Type to Run	Select 'Codeunit'.
Object ID to Run	Fill in '2032126 – Job Queue – Export Doc NVT'.
Job Queue Category Code	Fill in the Job Queue Category code for EDI.
No. of Minutes between Runs	'1': every minute, '0': 1 x per day.

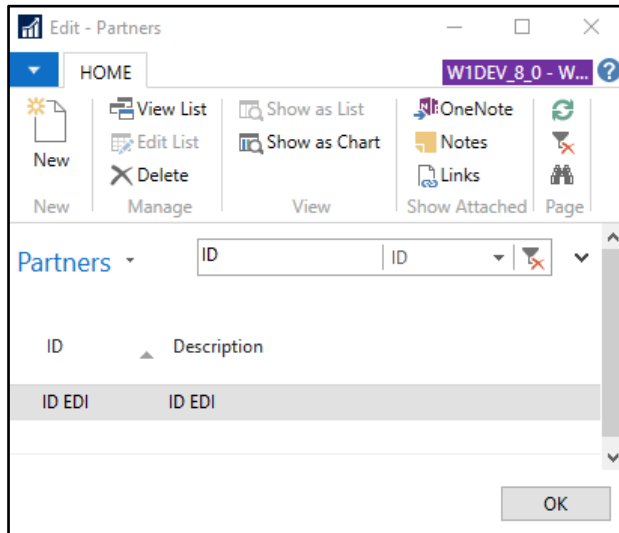
2.5 Partners

Partners are the parties who make files available. The files contain the Partner or the Partner is picked up in the import code. The Partner ID in combination with an EDI Reference uniquely defines the EDI file (for example if 2 Partners use the same numbering).

Path: NaviTrans Transport & Forwarding, Communication Mgt., Setup, Partners

A Partner is created in NaviTrans with an **ID** and a **Description**.

Example

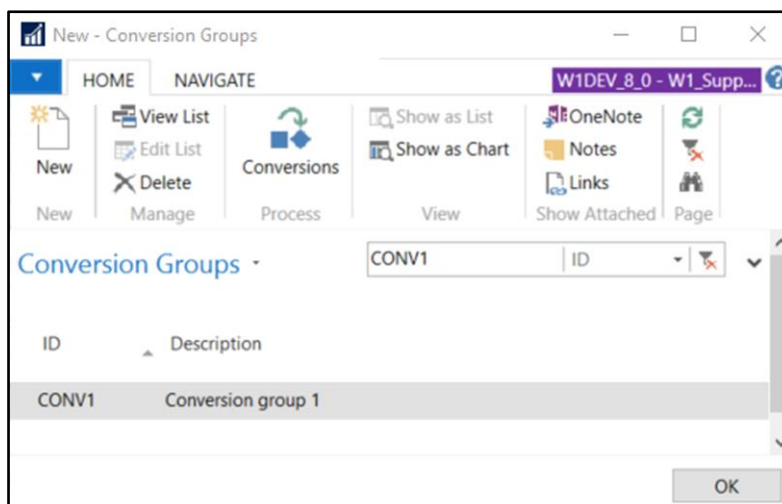


2.6 Conversion Groups

Purpose

Conversion groups are used to group conversions, for example per customer. Conversion groups are necessary when 2 customers use for example Unit Code 'Pallet' for a different unit in NaviTrans. For customer 1 'Pallet' represents 'Europallet', for customer 2 'Pallet' represents 'Industrial pallet'.

Example



Description

Path: NaviTrans Warehousing, Communication Mgt., Setup, Conversion Groups or
NaviTrans Transport & Forwarding, Communication Mgt., Setup, Conversion Groups.

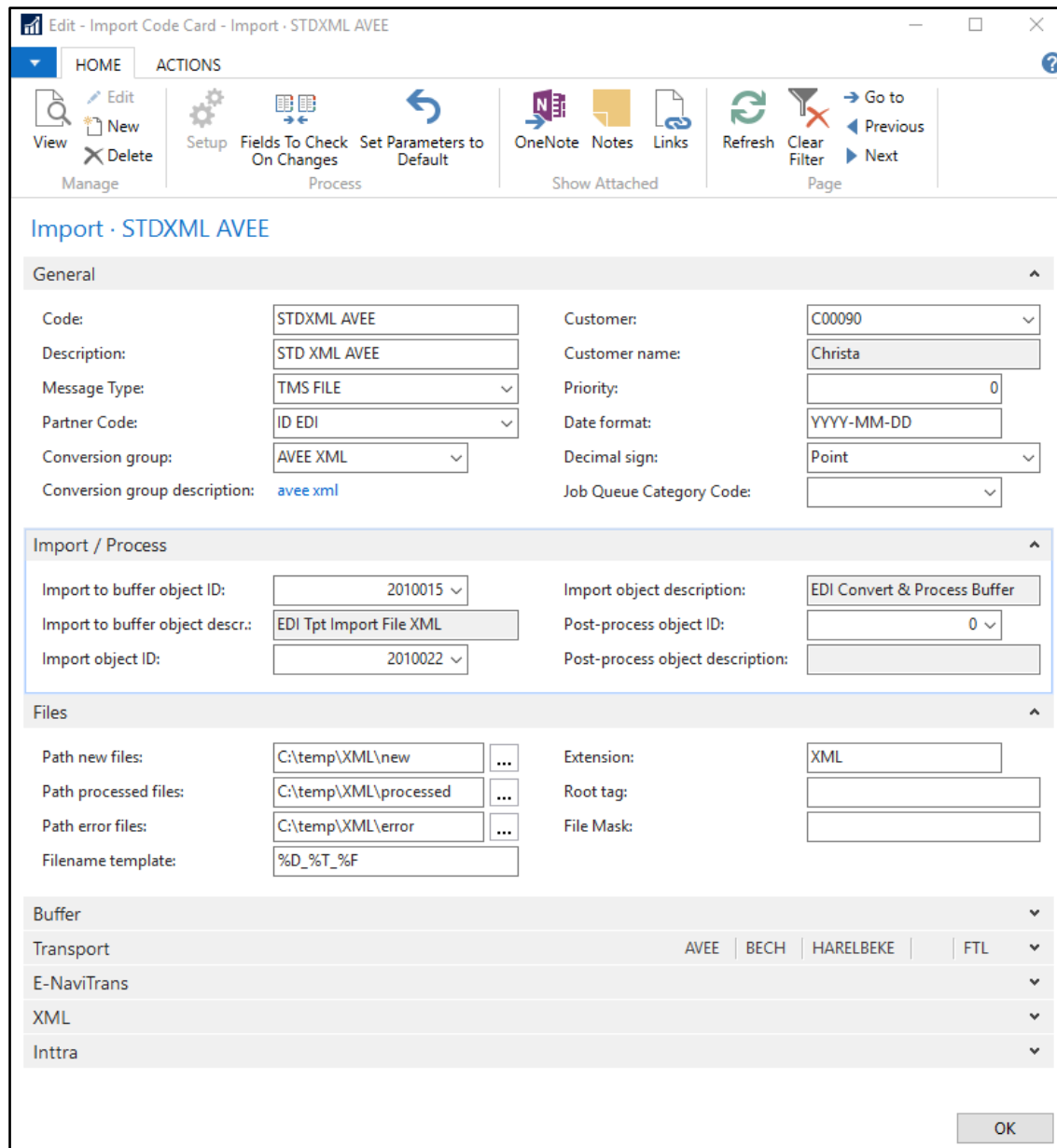
On the **Conversion Groups** page, on the ribbon, on the **Home** Tab, click **New**. Fill in an **ID** and **Description**.

2.7 Import Codes

Purpose

Import codes are created to define the file types that are imported in NaviTrans, for example 'TMS File'. For each Message Type and/or Customer an import code can be created.

Example



Edit - Import Code Card - Import - STDXML AVEE

HOME ACTIONS

Import · STDXML AVEE

General

Code:	STDXML AVEE	Customer:	C00090
Description:	STD XML AVEE	Customer name:	Christa
Message Type:	TMS FILE	Priority:	0
Partner Code:	ID EDI	Date format:	YYYY-MM-DD
Conversion group:	AVEE XML	Decimal sign:	Point
Conversion group description:	avee.xml	Job Queue Category Code:	

Import / Process

Import to buffer object ID:	2010015	Import object description:	EDI Convert & Process Buffer
Import to buffer object descr.:	EDI Tpt Import File XML	Post-process object ID:	0
Import object ID:	2010022	Post-process object description:	

Files

Path new files:	C:\temp\XML\new	Extension:	XML
Path processed files:	C:\temp\XML\processed	Root tag:	
Path error files:	C:\temp\XML\error	File Mask:	
Filename template:	%D_%T_%F		

Buffer

Transport	AVEE	BECH	HARELBEKE	FTL
E-NaviTrans				
XML				
Intra				

OK

Description

Path: NaviTrans Warehousing, Communication Mgt., Setup, Import codes or NaviTrans Transport & Forwarding, Communication Mgt., Setup, Import codes.

General FastTab

FastTab	Field	Description
General	Code & Description	Specifies the Code and Description.
	Message Type	Specifies the type of the incoming EDI message. Options are: <ul style="list-style-type: none"> - TMS File - Transporeon - Transwide - Truck Appointment - WMS Item - WMS Order - WMS Status Change You can define a number of parameters for message types, see description later for Message Type Parameters.
	Partner Code	Specifies the default partner from whom you receive EDI information. If the partner code is not included in the EDI message, you can define a default partner code for this import code. The partner code is also used for conversions.
	Conversion group	Specifies the conversion group, see description earlier.
	Customer	Specifies the default customer if no customer is included in the EDI file. Customer and partner can be the same.
	Priority	Determines the order in which the import codes are run. Specifies the priority of the import (1=lowest, 999=highest). High-priority codes are imported first, for example first import new item information and then import inbound orders.
	Date format	Specifies the date format that is used in the import file.
	Decimal sign	Specifies the decimal sign that is used in the import file.
Import / Process	Job Queue Category Code	Specifies the Job Queue Category Code to execute the job queue for this import, see description earlier.
	Import to buffer object ID	Specifies the codeunit that imports EDI files to buffer tables. (This field is not mandatory, it is only used if you work with buffer tables). Standard codeunits are: <ul style="list-style-type: none"> - TMS File: 2010015 EDI Tpt Import File XML - WMS Item: 2032130 WMS Import Standard XML Item - WMS Order: 2032128 WMS Import Standard XML WMS Order
	Import object ID	Specifies the codeunit that imports files to operational tables. Standard codeunits are: <ul style="list-style-type: none"> - TMS File: 2010022 EDI Convert & Process Buffer - WMS Item: 2032125 WMS Import Items

		<ul style="list-style-type: none"> - WMS Order: 2032123 WMS Import Orders - WMS Status Change: 2032138 WMS Imp Std XML Status Change
	Post-process object ID	<p>Specifies the codeunit that runs actions after the EDI Document has been processed. Actions are for example 'send an email'.</p> <p>This can also be included in the Import Object.</p>
Files	Path new files	Specifies the path to the location where new files to import are placed.
	Path error files	Specifies the path to the location where files that cannot be processed are placed. If this field is blank, the default path from the communication setup is used.
	Filename template	<p>Specifies the filename of the processed file. If this field is blank, the original filename is used, however files with the same name are overwritten. You can specify placeholders to determine the file name. Options are:</p> <ul style="list-style-type: none"> - %F (or %f) is replaced with the original filename - %D (or %d) is replaced with the date - %T (or %t) is replaced with the time <p>For example: '%F_%D-%T' is replaced by 'OriginalFilename_20160615-152318.txt', where 'OriginalFilename' is the original filename, 20160615 the date of the import and 152318 the time of the import. The name is completed with the extension of the original file.</p>
	Extension	If you fill in an extension, for example XML, TXT, CSV..., only files with this extension are processed.
	Root tag	If you import XML files, you can have different types of XML files in the same directory. If you specify a root tag, only XML files with the corresponding root tag (not case sensitive) are processed by this import code. This means that you can use different import codes for XML files in the same directory.
	File Mask	The file mask functions as filter. For example if you fill in 'Create', only files with a file name that contains the word 'Create', are imported.
Buffer	Allow Update without Create	<p>Check mark to create a file based on an update document, if the create document does not yet exist. The most recent update document is used to create the file.</p> <p>If this field is not check marked, NaviTrans waits to create a file until the create document arrives. At arrival of the create document, the update documents are also processed.</p>
	Confirm Create	Check mark for manual processing of documents in the buffer. The 'Process' button on the ribbon of the Buffer is activated.

	Confirm Update	Check mark for manual confirmation of documents in the buffer. The 'Confirm' button on the ribbon of the Buffer is activated.
	Confirm Delete	Check mark for manual rejection of the documents in the buffer. The 'Reject' button on the ribbon of the Buffer is activated.
	Clear Buffer After Processing	Check mark to clear the buffer after processing the operational tables: EDI Documents are processed in the buffer and transport files, WMS orders, items are created.
	Check Differences	Check mark to activate the Fields to Check on Changes button on the ribbon and to enable the Compare Type field (see below).
	Compare Type	Select what is compared when updates of files are imported. Options are: <ul style="list-style-type: none"> - Buffer: compare previous buffer information with current buffer information. (In Fields to Check on Changes on the ribbon, you have to select a Table No. of 'Buffer' type, for example 'EDI File Tpt Buffer'). - Operational: compare existing operational data with converted EDI data. (In Fields to Check on Changes on the ribbon, you have to select a Table No. of 'Import' type, for example 'EDI File Import').
Transport	Department	Specifies the default department if the file does not contain a department.
	Subdepartment	Specifies the default subdepartment if the file does not contain a subdepartment.
	Plan department	Specifies the default plan department if the file does not contain a plan department.
	Plan subdepartment	Specifies the default plan subdepartment if the file does not contain a plan subdepartment.
	Transport type	Specifies the default transport type if the file does not contain a transport type.
	Inco-Term	Specifies the default Inco-Term if the file does not contain an Inco-Term.
	Transport modus	Specifies the default transport modus if the file does not contain a transport modus.
	Express shipment	Specifies that it is an express shipment if the file does not contain information about express shipment.
	Take over ADR Good information to parcel	Check mark if ADR information in the XML file has to overrule ADR information in NaviTrans.
	Allow Update Goods When Planned	Check mark if goods information can be updated after the file has been planned.
	New import items	Specifies what has to happen with the imported items information.

		<ul style="list-style-type: none"> - If the option is 'Manual', then the item is copied in NaviTrans. Then NaviTrans looks for an item with the same description. If the description is found, then the linked item code is used for further processing. <p>If the description is not found, then NaviTrans continues with the next steps.</p> <ul style="list-style-type: none"> - If the option is 'Create', then a new item is created. - If the option is 'Convert', then the item has to be converted and conversion errors can occur. <p>See also description of 'New Import ADR'.</p>
	New import addresses	<p>Initial checks are done:</p> <ul style="list-style-type: none"> - Does the country code exist: 'Yes': OK, 'No': conversion error. - Does the postal code exist: 'Yes': OK, 'No': conversion error. <p>Depending on the selection you make, this is what happens with the imported address information: Selection:</p> <ul style="list-style-type: none"> - Manual (the address is created as free or one-time address without conversion). - Create (the address is created in NaviTrans). - Convert (the address is converted or if the conversion does not yet exist, you receive a conversion error).
	New import ADR	<p>Specifies what has to happen with the imported ADR information.</p> <p>This parameter works partly together with the 'New Import Item' parameter, see description earlier.</p> <p>If New Import Item is set to 'Create', then the ADR information is added to the newly created item. In all other cases, NaviTrans checks if an item can be found. If yes, the ADR information is compared to the item in NaviTrans. If the ADR information is different, an alert is generated to warn you to check the ADR information in NaviTrans.</p>
	User ID	Specifies the user ID for EDI data: in operational tables you can distinguish EDI data from other data.
	Linked Export Code	Specifies the export code to be used to export confirmations/statuses (used for Transwide and Transporeon).
WMS <i>Note: FastTab is visible if you select a WMS Message Type</i>	Import Orders	
	New import addresses	See description earlier.
	Import doc. with existing ref.	<p>Specifies what happens if a document (order or status change) is imported with a reference that already exists in NaviTrans. Options are:</p> <ul style="list-style-type: none"> - Error - Overwrite - Duplicate

		- Ask
	Receipt Check	Specifies the receipt check, if the file does not contain a receipt check.
	Release Imported Orders	Check mark to release imported orders automatically.
	Import items	
	Change existing item	Check mark if an existing item has to be changed with the information in the file.
	Default picking logic	Specifies the default picking logic, if the file does not contain a picking logic.
	Default unit of measure	Specifies the default unit of measure, if the file does not contain a unit of measure.
E-NaviTrans	See document about E-NaviTrans.	
XML	Schema Location	Specifies the folder location of the XML Schema (= XSD).
	NameSpace 1, 2,3	Defines the meaning of elements in an XML file. This field is normally left empty because the information is part of the XML. If you do fill in this field, note that this information overrules the information in the XML file.
	XML Schema 1,2,3	Specifies the file name of the XML Schema. If the file does not comply with the XML Schema, you receive a technical error after import. In general, only 1 XML schema is filled in.
Intra	For a description, see document about Intra.	

Additional Functions on the Ribbon

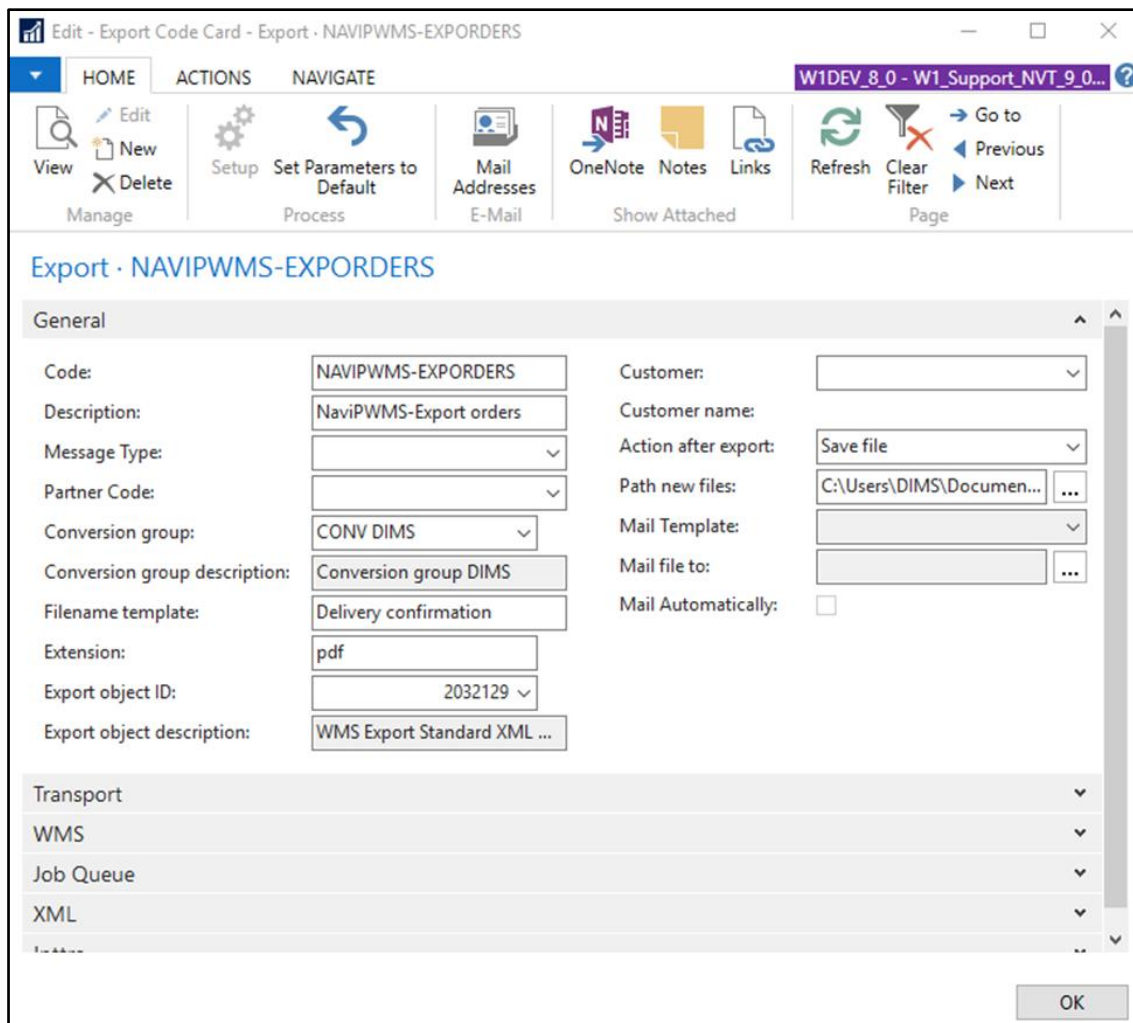
Button	Description
Setup	Click to open the setup page (available if a setup page is linked to a message type, see description Message Type Parameters later).
Fields to Check on Changes	Click to select the fields that have to be checked in case of changes, if not all fields have to be checked. Available Table objects are of 'Import' type or 'Buffer' type, see description earlier 'Compare Type' on the Buffer FastTab.
Set Parameters to Default	Click to fill in the Import to buffer object ID and Import/Export object ID automatically for the specified Message Type.

2.8 Export Codes

Purpose

Export codes are created to define the file types that are exported from NaviTrans, for example 'TMS File'. For each Message Type and/or Customer an export code can be created.

Example



Description

Path: NaviTrans Warehousing, Communication Mgt., Setup, Export codes or
NaviTrans Transport & Forwarding, Communication Mgt., Setup, Export codes

General FastTab

FastTab	Field	Description
General	Code & Description	Specifies the Code and Description.
	Message Type	Specifies the type of the outgoing EDI message. Options are: <ul style="list-style-type: none"> - TMS File - Transporeon - Transwide Slot Notification - Truck Appointment - WMS Item - WMS Order - WMS Status Change You can define a number of parameters for message types, see description later for Message Type Parameters.
	Partner Code	Specifies the partner.

		If the partner code is not included in the EDI message, you can define in this field a default partner code for this export code. The partner code is also used for conversions.
	Conversion group	Specifies the conversion group, see description later.
	Filename template	<p>Specifies the filename of the created file. If this field is blank, the filename is 'code+date+time'. However you can choose a different name using placeholders. Options are:</p> <ul style="list-style-type: none"> - %R (or %r) is replaced with the reference of the order: <ul style="list-style-type: none"> o Export of Intra Booking 2 Request and Shipping Instructions o Export of Transwide Statusses: the EDI Reference of the Buffer file is sent o Export WMS Orders o Export WMS Status Change - %D (or %d) is replaced with the date - %T (or %t) is replaced with the time <p>For example: '%R_%D-%T' is replaced by for example 'Reference_20160616-152318.txt'.</p>
	Extension	Specifies the extension of the file to create, for example XML, TXT, CSV...
	Export object ID	<p>Specifies the object ID that exports files.</p> <p>Standard codeunits are:</p> <ul style="list-style-type: none"> - WMS Item: 2032131 WMS Export Standard XML Stock - WMS Order: 2032129 WMS Export Standard XML Order - WMS Status Change: 2032140 WMS Exp Std XML Status Change
	Customer	Specifies the customer for whom the export is done.
	Action after export	<p>Specifies what happens with the export file after it is created. Options are:</p> <ul style="list-style-type: none"> - Save file: the file is saved in 'Path new files', see below. - Mail file: the file is mailed to the specified e-mail address 'in mail file to', see below. A Mail Template has to be specified in this case. - Save + mail file: combination of both. <p>Note: this parameter is only applied if no setting is found on other levels. like transport address or customer, see description in the next paragraph.</p>
	Path new files	Specifies the path for new files to export.
	Mail Template	<p>Specifies the mail template used to mail the export file. The mail addresses are defined as follows:</p> <ul style="list-style-type: none"> - If an address is defined, <ul style="list-style-type: none"> o For inbound: the load address o For outbound: the unload address - If a customer is defined, the addresses linked to the customer. - Or finally if an address is linked to the export code.
	Mail file to	Specifies the mail address to which the mail is sent.

	Mail Automatically	Check mark to mail the export file automatically via batch. An entry is created in the Mail Journal. This entry is processed via Job Queue or you can process the entry in the Mail Journal with the Process function. If this field is not check marked, you receive a dialog box with attachment to mail the export file manually.
Transport <i>Note: this is only used for Transporeon and Transwide.</i>	Send Confirmation	Check mark to enable the export of confirmation for imported transport files that are imported with an import code to which this export code is linked. Check mark if an update has to be sent to Transporeon/Transwide when you accept or reject a file, an update of a file or a cancellation of a file.
	Send Start Loading	Check mark to enable export of statuses for imported transport files that are imported with an import code to which this export code is linked. Check mark if a document has to be sent to Transporeon/Transwide when the actual start loading date and time is filled in or received from OBC.
	Send End Loading	Check mark to enable export of statuses for imported transport files that are imported with an import code that is linked to this export code. Check mark if a document has to be sent to Transporeon/Transwide when the actual end loading date and time is filled in or received from OBC.
	Send Start Unloading	Check mark if a document has to be sent to Transporeon/Transwide when the actual start unloading date and time is filled in or received from OBC.
	Send End Unloading	Check mark if a document has to be sent to Transporeon/Transwide when the actual end unloading date and time is filled in or received from OBC.
WMS	Decimal sign	Specifies the decimal sign in the EDI file. Options are: - Point - Comma
	Export processing type	Specifies the object type used to run for exporting files. Options are: - Report - XMLport
	Export processing object ID	Specifies the object ID to be run for export. This is used for WMS Orders and WMS Status Changes.
Job Queue	Job Queue Entry Description	Specifies the Job Queue Entry for the export code.
	Job Queue Entry Status	Specifies the Job Queue Entry Status for the export code.
	Earliest Start Date/Time	Specifies the Earliest Start Date/Time of the Job Queue for the export code.
XML	Path temp files	Specifies the path for temp files for the export code.
	NameSpace 1, 2,3	Defines the meaning of elements in an XML file. This field is normally left empty because the information is part of the XML. If you do fill in this field, note that this information overrules the information in the XML file.

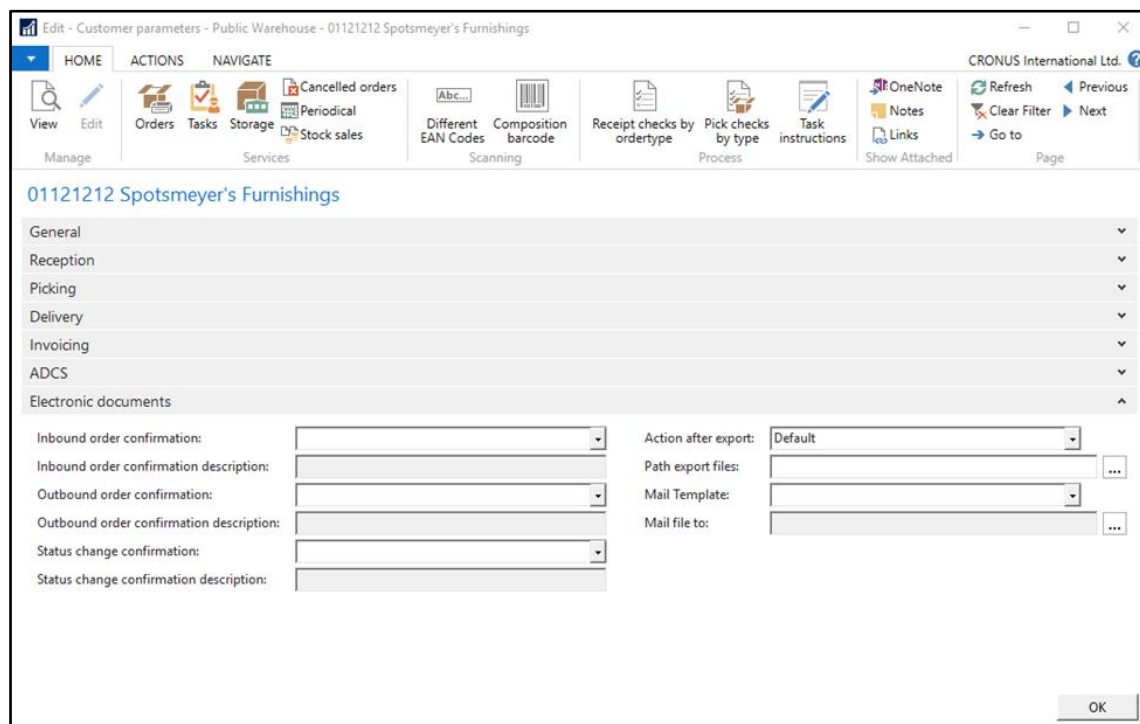
	XML Schema 1,2,3	Specifies the file name of the XML Schema (= XSD). If the file does not comply with the XML Schema, you receive a technical error during export. In general, only 1 XML schema is filled in.
	Add Schema Location	Check mark to add a Schema Location.
	Schema Location	Specifies the folder location of the XML Schema.
Intra	See separate document for a description.	

2.9 Customer WMS Outgoing File Parameters

Purpose

On the **Customer card**, under **Setup Public Warehouse**, on the **Electronic Documents** FastTab, you can define parameters for outgoing files.

Example



Description

Field	Description
Inbound order confirmation	Specifies the export code for the inbound order confirmation.
Outbound order confirmation	Specifies the export code for the outbound order confirmation.
Status change confirmation	Specifies the export code for the status change confirmation.
Action after export	Specifies what happens with the export file after it is created. Options are: <ul style="list-style-type: none"> - Default: settings of the export code is used. - Save file - Mail file

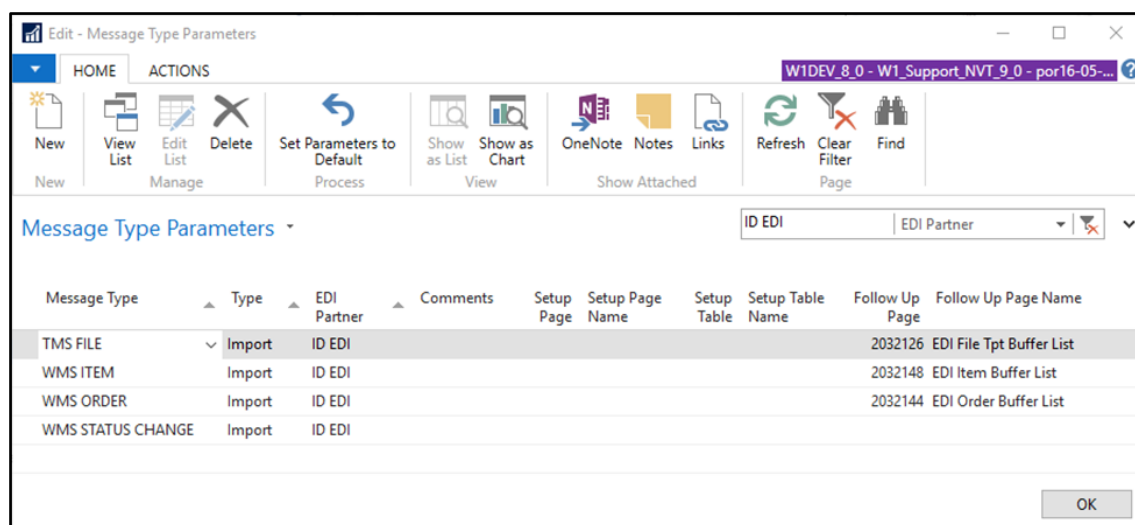
	<ul style="list-style-type: none"> - Save + mail file <p>Note: this parameter can be defined on several levels. The levels are checked in the following order:</p> <ul style="list-style-type: none"> - Transport address - For inbound order, setting on loading transport address. - For outbound orders, setting on unloading transport address. - If no transport address is found, the setting on the customer of the order. - Setting on the export code.
Path export files	Specifies the path for the new files to export.
Mail Template	Specifies the mail template used to mail the export file.
Mail file to	Specifies the mail address to which the mail is sent.

2.10 Message Type Parameters

Purpose

On the Message Type Parameters page, you can define the Setup page on the Import and Export code page and the Follow Up page on the Document list page.

Example



Description

- Go via the Navigation pane to **Message Type Parameters** (Path: NaviTrans Transport & Forwarding or NaviTrans Warehousing, Communication Mgt., Setup, Message Type Parameters).
- On the **Message Type Parameters** page, select a **Message Type**. Options are:
 - TMS FILE
 - WMS ITEM
 - WMS ORDER
 - WMS STATUS CHANGE
 - ...
- Select **Type** 'Import' or 'Export'.

4. Select the **EDI Partner**.
***Note:** message types can have different parameters depending on the EDI Partner.*
5. Select a **Setup Page**.
***Note:** the Setup page can be opened from the EDI Import/Export Code card.*
6. Select a **Setup Table**.
7. Select a **Follow Up Page**:
 - 2032126 EDI File Tpt Buffer List
 - 2032148 EDI Item Buffer List
 - 2032144 EDI Order Buffer List
 - For WMS Status Change, no Follow Up Page is available.

Or on the ribbon, on the **Home** tab, click **Set Parameters to Default** to fill in the Follow Up Page automatically.

***Note:** the EDI Partner is not mandatory. However if you do fill it in, it has to correspond with the EDI Partner on the Import Code page and the Export Code page.*

3 EDI Mapping/XML Structure

See separate document about Standard XML structure.

A document is available for the XML structure of TMS files and another document for the XML structure of WMS files (Order, Items, Status Changes).

4 Processing Incoming Files in NaviTrans

See introduction for 'Import Flow'.

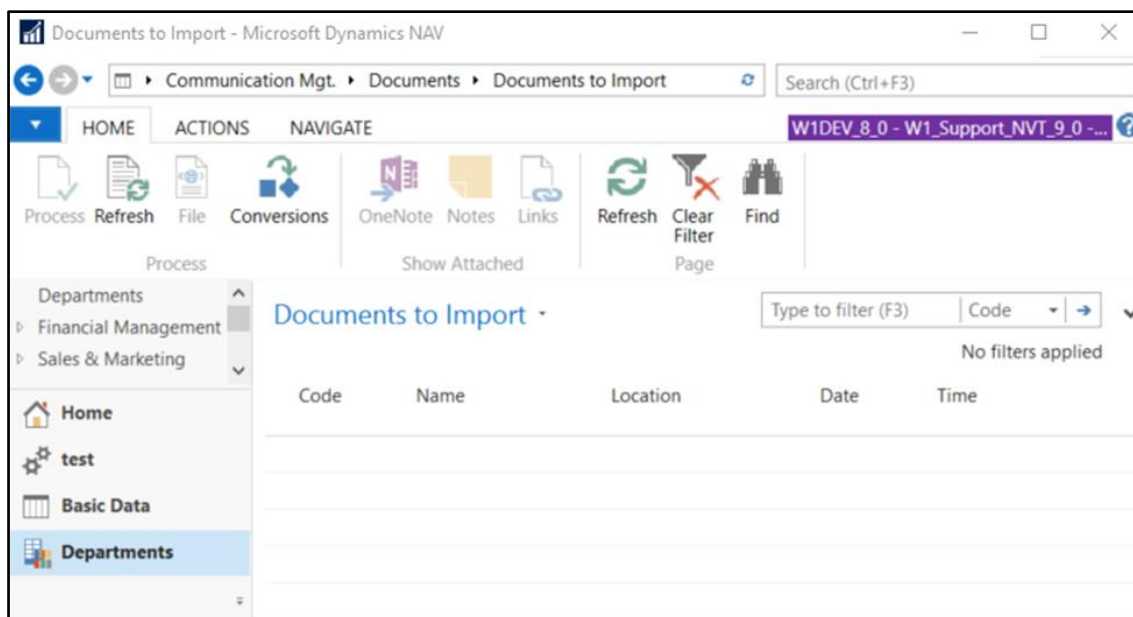
4.1 Documents to Import

Purpose

The Documents to Import page gives an overview of files that are ready to be imported manually.

Files that are imported automatically via NAS/Job Queue, but not yet processed, are also temporarily listed in this overview. Once the files are processed to EDI documents, they are listed in the Documents list page, see next paragraph.

Example



Description

Path: NaviTrans Transport & Forwarding, Communication Mgt., Documents to Import or
NaviTrans Warehousing, Communication Mgt., Documents to Import

Button	Description
Process	Click to process the file.
Refresh	Click to refresh the Documents to Import list page.
File	Click to open the file.
Conversions	Click to open the conversions overview. When you receive a conversion error after clicking process, you can solve the error.

4.2 Documents

The Documents page gives an overview of the EDI Documents that are created based on the imported files with their file location, status, processing time.

An EDI Document can be compared to an envelope that you receive and that contains different letters. 1 letter is for example 1 Transport File.

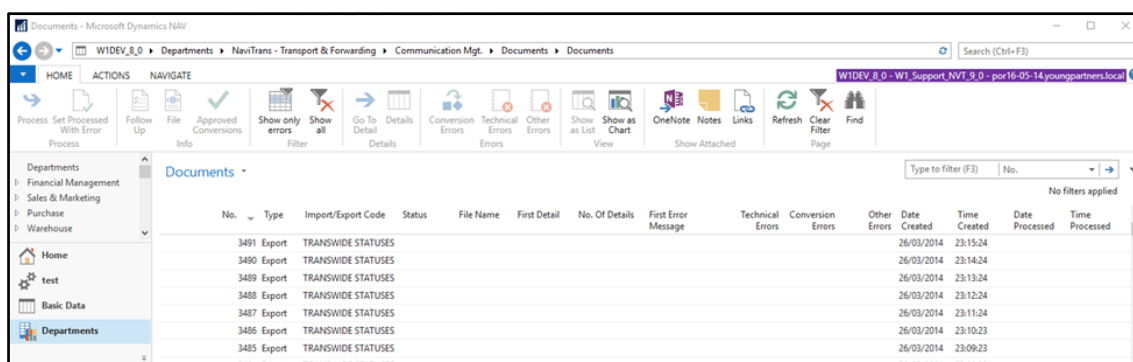
From the Documents page, you can go via the 'Follow Up' button to the Buffer Files where you can see the Transport files, WMS orders ... corresponding to the EDI Document.

Note: the Follow Up button is only enabled if a Message Type is linked to the Import Code, see description earlier.

Also from the Documents page, you can go via the 'File' button to the original format that you have received from the EDI Partner.

If the EDI Document contains errors, you can do conversions, solve errors and process the Documents again.

Example



Description

Path: NaviTrans Transport & Forwarding, Communication Mgt., Documents or
NaviTrans Warehousing, Communication Mgt., Documents

Below we describe a number of columns.

Column	Description
No.	Specifies the internal NaviTrans number of the EDI document.
Type	Specifies the Type. Options are: <ul style="list-style-type: none"> - Import - Export
Import/Export Code	Specifies the Import or Export Code.
Status	Options are: <ul style="list-style-type: none"> - Read: the document is read in NaviTrans. - Processed: the document has been fully processed, no errors occurred. - Error: an error occurred during processing of the document. - Processed with Error: status after you have used the 'Process with Error' function. - Retry: temporary status that can occur when in EDI Setup, 'No. of Retries' is filled in.
File Name	Specifies the file name.
First Detail	Specifies the first result of the processed documents. For the list of all processed documents, you can click the Detail function on the ribbon.
No. of Details	Specifies the number of results of the processed document. Click the field to go to the result, for example a list of transport files, warehouse orders... If an error occurred during processing, this field is empty.
First Error Message	Specifies the message of the first document with error. Click the field for a list of errors related to this document.
Technical Errors	Specifies the technical errors for this document. Technical errors prevent the information from being read correctly, for example the XML document is not valid according to the XSD, no access rights to move the file, error in development code... Click the field for an overview of a list of technical errors. As soon as 1 error occurs with the document, it receives 'Error' status and if the document contains multiple details, none is processed.
Conversion Errors	Specifies the conversion errors for this document, for example the address has to be converted.

	Click the field for an overview of a list of conversion errors. As soon as 1 error occurs with the document, it receives 'Error' status and if the document contains multiple details, it is possible that details without error are created or modified.
Other Errors	Specifies other errors for this document that occur via the NAV/NaviTrans code, for example not allowed to update, the EDI reference already exists... Click the field for an overview of a list of other errors. As soon as 1 error occurs with the document, it receives 'Error' status and if the document contains multiple details, it is possible that details without error are created or modified, for example an XML that results in 5 shipments of which 4 shipments can be created and the 5 th shipment contains an error.

Additional Functions on the ribbon

Button	Description
Process	Click to process the EDI document.
Set Processed with Error	If you do not want a document with errors to be displayed with errors, because for example the document does not have to be processed, you can set the document as processed with error.
Follow Up	Click to open the Buffer that contains EDI Document details, status and information. See description of the Buffer in the next paragraph.
File	Click to open the file received from the EDI Partner (XML, CSV, TXT...).
Conversion Errors	Click for an overview of the conversion errors for the selected EDI Document.
Technical Errors	Click for an overview of the technical errors for the selected EDI Document.
Other Errors	Click for an overview of other errors for the selected EDI Document.
Approved conversions	Click for an overview of the conversions that have been solved for this document.
Show only errors	Click to show the EDI Documents with errors only.
Show all	Click to show all EDI Documents.
Go To Detail	Click to go to the first created detail, for example a transport file, contact.
Details	Click for an overview of the created details, for example transport files, contacts.

4.3 Buffer

For TMS Files, WMS orders and WMS items, NaviTrans foresees a buffer where imported files pass to be processed manually.

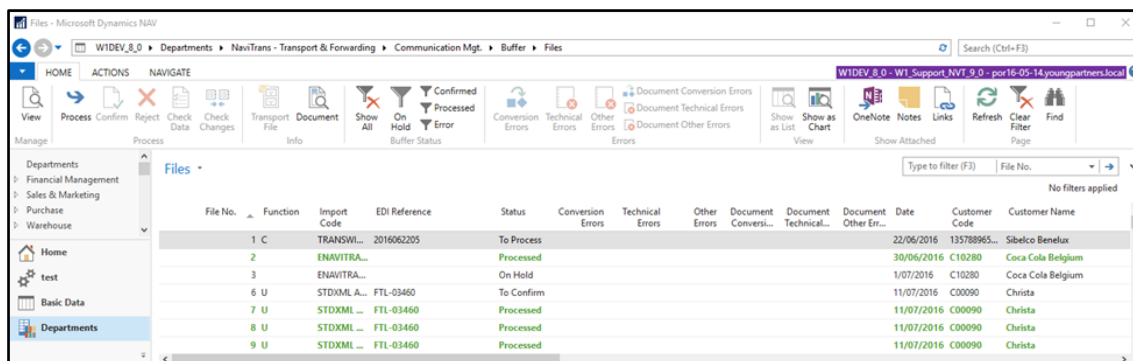
Colors

- Error: red italic
- Processed: green
- Processed with error: orange
- Retry: blue

4.3.1 Files

Path: NaviTrans Transport & Forwarding, Communication Mgt., Buffer, Files

Example



File No.	Function	Import Code	EDI Reference	Status	Conversion Errors	Technical Errors	Other Errors	Document Conversion Errors	Document Technical Errors	Document Other Errors	Date	Customer Code	Customer Name
1	C	TRANSMI...	2016062205	To Process							22/06/2016	135789865...	Sibelco Benelux
2		ENAVITRA...		Processed							30/06/2016	C10280	Coca Cola Belgium
3		ENAVITRA...		On Hold							1/07/2016	C10280	Coca Cola Belgium
6	U	STDXML A...	FTL-03460	To Confirm							11/07/2016	C00090	Christa
7	U	STDXML ...	FTL-03460	Processed							11/07/2016	C00090	Christa
8	U	STDXML ...	FTL-03460	Processed							11/07/2016	C00090	Christa
9	U	STDXML ...	FTL-03460	Processed							11/07/2016	C00090	Christa

Description

Below, we describe a number of columns.

Column	Description
File No.	Specifies the internal number of the File in the buffer table.
Function	Specifies how the buffer record has to be processed. Options are: <ul style="list-style-type: none"> - C = Create - U = Update - D = Delete (Cancel)
Import Code	Specifies the import code.
EDI Reference	Specifies the Reference of the file or shipment. <ul style="list-style-type: none"> - The EDI reference is a unique number for the Sending Party. - The EDI reference is used to Update or Cancel the correct File/Shipment. - In general, the reference is provided by the customer.
Status	Specifies the status of the buffer record. Options are: <ul style="list-style-type: none"> - On Hold: a file that a web user creates in E-NaviTrans. - To Process: if no confirmation is required. - In Process: a NAS or a user is processing the file. - To Confirm: if a confirmation is required. - Processed: the buffer record has been processed without errors. - Error: the buffer record cannot be processed due to errors. - Processed with Error: Status after you have used the 'Process with Error' function. - Rejected: Status after you have rejected the document. - Retry: specifies that NaviTrans tries to import the document again. - Skipped: the file is skipped because a newer update is processed instead.
Technical Errors	Specifies the number of technical errors for this document, for example the XML document is not valid according to the XSD, no access rights to move the file... Click the field for an overview of a list of technical errors.

Conversion Errors	Specifies the conversion errors for this document, for example not allowed to update, the EDI reference already exists. Click the field for an overview of a list of conversion errors.
Other Errors	Specifies other errors for this document, for example Not allowed to update, the EDI Reference already exists... Click the field for an overview of a list of other errors.
Operational File No.	Specifies the file number if the Buffer record has been processed. Click the field for an overview of the created files/shipments. If the status of the buffer record is 'Error', this field is empty because no file/shipment is created.
Other columns	Other columns show more information about the Buffer File/Shipment, for example Service Level, Customer No., (Plan) Department...

Additional Functions on the ribbon

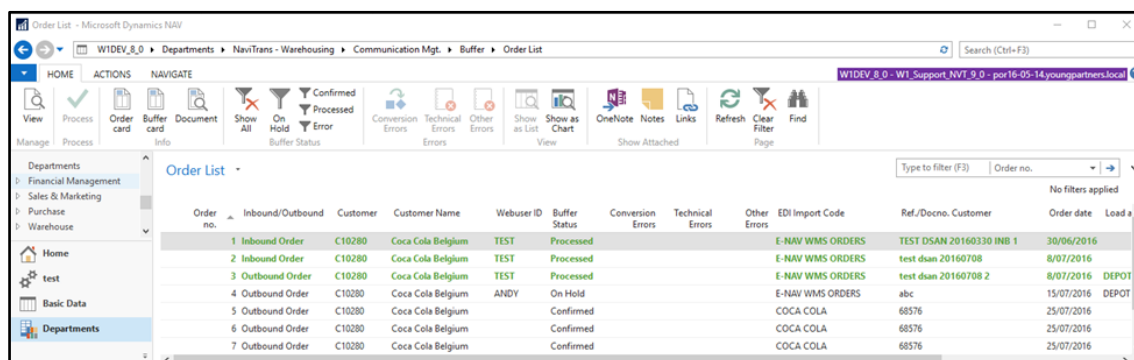
Button	Description
View	Click to open the File/Shipment buffer record. The card shows all information as provided by the customer. You cannot edit this information.
Process	If the buffer record has Error status, you can solve the errors and then click Process to process the record manually.
Confirm	Click to confirm the incoming EDI Document. This function only works for import of files and shipments, not for WMS Orders and WMS Items.
Reject	Click to reject the incoming EDI Document.
Transport File	Click to open the created Transport file.
Document	Click to go to information about the EDI Document (file name, date/time, processing).
Conversion Errors	Click for an overview of conversion errors for the selected buffer transport file.
Technical Errors	Click for an overview of the technical error for the selected buffer transport file. Technical errors are the errors that prevent the information from being read correctly.
Other Errors	Click for an overview of the other errors for the selected buffer transport file. Other errors are errors that occur via the NAV/NaviTrans code.
Document Conversion Errors	Same as above but on EDI Document level.
Document Technical Errors	Same as above but on EDI Document level.
Document Other Errors	Same as above but on EDI Document level.
Check Changes	Click to check for changes. Depending on the 'Compare type' on the import code, the current buffer is compared with the previous buffer or current converted import data are compared with the operational data of the already created transport file.
Check Data	Click to check if all information is available. This is used for Transwide/Transporeon.
Show All	Click to show all buffer transport files.
On Hold	Click to show the buffer transport files that are on hold. This is used for E-NaviTrans: files that are being created in NaviTrans but not yet finished are on hold.

Confirmed	Click for an overview of buffer transport files confirmed by a user.
Processed	Click for an overview of processed buffer transport files.
Error	Click for an overview of buffer transport files with errors.

4.3.2 Order List

Path: NaviTrans Warehousing, Communication Mgt., Buffer, Order List

For a detailed description of the columns and buttons on this page, we refer to 'Files', see earlier paragraph.

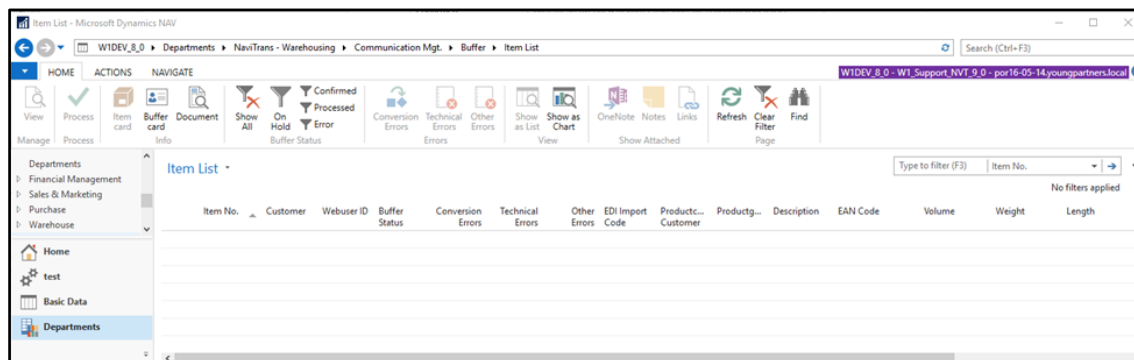


The screenshot shows the 'Order List' page in Microsoft Dynamics NAV. The left sidebar contains navigation options like 'Departments', 'Home', 'test', 'Basic Data', and 'Departments'. The main area displays a table with columns: Order no., Inbound/Outbound, Customer, Customer Name, Webuser ID, Buffer Status, Conversion Errors, Technical Errors, Other Errors, EDI Import Code, Ref./Docno. Customer, Order date, and Load. The table contains 7 rows of data, including 'Inbound Order' and 'Outbound Order' for 'Coca Cola Belgium'.

4.3.3 Item List

Path: NaviTrans Warehousing, Communication Mgt., Buffer, Item List

For a detailed description of the columns and buttons on this page, we refer to 'Files', see earlier paragraph.



The screenshot shows the 'Item List' page in Microsoft Dynamics NAV. The left sidebar contains navigation options like 'Departments', 'Home', 'test', 'Basic Data', and 'Departments'. The main area displays a table with columns: Item No., Customer, Webuser ID, Buffer Status, Conversion Errors, Technical Errors, Other Errors, EDI Import Code, Product Customer, Product Description, EAN Code, Volume, Weight, and Length. The table is currently empty.

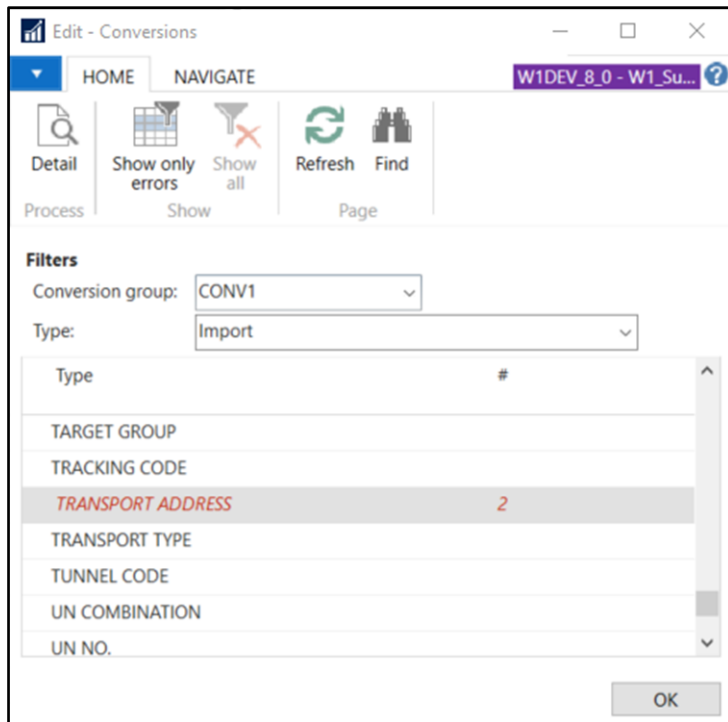
4.4 Conversions

Purpose

Conversions are used to translate the code of the customer to a code known in NaviTrans, for example the customer uses 'PIECE' as unit of measure, in NaviTrans the code for this unit of measure is 'PCE'.

If a document is imported with a conversion error, then you can solve the error on the Conversion page.

Example

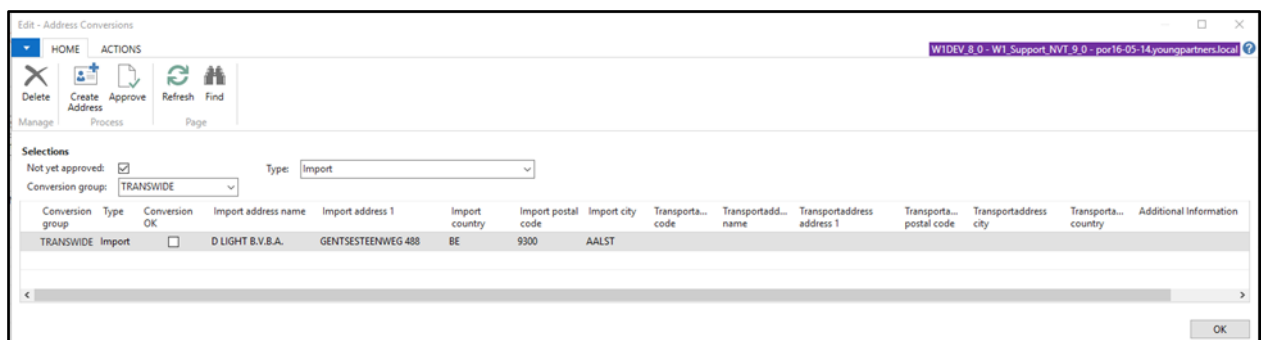


Description

The available Conversion Types are listed on the conversions page in NaviTrans.

Depending on the information, for example Address, different columns are offered on the Conversion page.

Example



Steps

1. On the **Conversions** page, fill in a **Conversion group** and **Type**.
The Type of information for which a conversion error exists is displayed in red italic.
2. Double click the **#** flow field.
3. On the detail **Conversions** page, in the **Selections** part, **Not yet approved** is check marked by default.
4. Fill in filters for **Conversion group** and/or **Type**.
The **Import Code** is filled in.
5. Select the corresponding **NaviTrans Code**.
6. For a transport address, item or post code that does not yet exist in NaviTrans, you can create the information directly from the **Conversions** page. On the ribbon, on the **Home** Tab, click **Create Address**, **Create Master Item** or **Create Post Code**.

7. On the ribbon, on the **Home** Tab, click **Approve**.

Note: NaviTrans does the following checks regarding conversions:

- NaviTrans checks if a conversion exists. If it does, the conversion is taken.
- If no conversion exists, NaviTrans checks if the code exists in the database.
- If the code does not exist, a conversion is created and an error is given.

Conversion Flow

When an EDI document is imported, the conversion flow below is followed:

1. The conversion table is checked (it is possible to pre-define conversions before import) and a check is done if the converted entity is blocked in NaviTrans.
2. If nothing is found, the actual NaviTrans table is checked.
3. If still nothing is found, a conversion error is thrown.

5 Processing Outgoing Files from NaviTrans

5.1 Export Flow

See introduction for 'Export Flow'.

5.2 Trigger of Export Files

- For WMS, a number of statuses automatically trigger the creation of an outgoing file:
 - o The inbound or outbound order is confirmed.
 - o The status change is confirmed.
- For TMS files, the creation of outgoing files is not triggered automatically.

For demo and training purposes, Young & Partners consultants use the 'Export to XML' function on the ribbon of the Transport file. If you click 'Export to XML', a selection page opens where you can select the required export code.

5.3 Documents

Path: NaviTrans Transport & Forwarding, Communication Mgt., Documents or
NaviTrans Warehousing, Communication Mgt., Documents

The Documents list page contains an overview of outgoing files.

For more information, we refer to the description earlier in the part about 'Processing Incoming Files in NaviTrans'.

5.4 Conversions

Description

For conversions for outgoing files, you can use the 'Export' Conversion type.

For more information, see the description earlier in the part about 'Processing Incoming Files in NaviTrans'.

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