

NAV Integration - Product Definition

This Mediusflow NAV Integration Product Definition is written for the web service based integration (WS) of NAV 2009 R2 or later. This product definition was last updated March 1st, 2016.

1 Overview

The NAV integration consists of 3 parts:

- Part 1 read master data from NAV database and import to Mediusflow via Medius Integration Gateway (MIG, a Windows service developed by Medius)
- Part 2 a set of Medius developed NAV objects imported in NAV to handle message exchange and invoice posting in NAV
- Part 3 invoice posting messages sent from MediusFlow via MIG and used to call NAV web service, the webservice call reresults in a response message (voucher or error) back to Mediusflow

If the NAV version does not have support for web service, we strongly recommend the customer to install it because an alternative and not as good solution would be to use Medius created integration tables for message exchange in the NAV database (**Note:** requires extra cost because it is not supported in standard integration package)

1.1 Version dependencies

Since NAV have some differences between versions the following matrix tells you what NAV version goes with which integration release package:

NAV Version	Integration Package Version	XI Version	Comment
5.x or earlier	N/A	N/A	No package planned
2009 SE not using web service	N/A	N/A	No package planned
2009 W1 (International) not using web service	N/A	N/A	No package planned
2009 SE using web service	2.0 HF1	R13HF1 / R14 or later	
2009 W1 (International) using web service	2.0 HF1	R13HF1 / R14 or later	
2013 SE using web service	2.0 HF1	R13HF1 / R14 or later	
2013 W1 (International) using web service	2.0 HF1	R13HF1 / R14 or later	
2009 SE using web service	4.0 & 4.3	R13HF5 / R17 or later	
2009 W1 (International) using web service	4.0 & 4.3	R13HF5 / R17 or later	

NAV Version	Integration Package Version	XI Version	Comment
2013 SE using web service	4.0 & 4.3	R13HF5 / R17 or later	
2013 W1 (International) using web service	4.0 & 4.3	R13HF5 / R17 or later	
2015 SE using web service	4.0 & 4.3	R13HF5 / R17 or later	
2015 W1 (International) using web service	4.0 & 4.3	R13HF5 / R17 or later	
2009 R2 or later	5.0	R20 or later	

2 Regional support

This matrix describes which countries / areas this package has been verified for.

Country / Area	Supported	Comment
Sweden	SUPPORTED	Preliminary, Cancel, Final posting
Norway	SUPPORTED	Final posting with KID number
Denmark	NOT PERFECT	Final posting with FIK code, only for purchase document, not journal management
International	SUPPORTED	Only Final posting

2.1 Integration Package Content

The package contains a DLL files that is needed to interpret the communication between NAV and XI. The DLL file will normally be handled automatically by the deployment script and placed in the MIG folder.

The package also includes code objects that needs to be imported to the NAV database. In order for us to put these objects in NAV, we need a set of available object number listed in the customer's NAV license. Some of our objects are needed to read the master data in the form of suppliers, payment terms, accounts, dimensions and currencies, etc. Other objects are designed to retrieve messages from MediusFlow for invoice registration and posting in NAV. There is also a set up form/page for the integration configuration.

- 2 Tables
- 2 Code units
- 1 Form/Page (depending on Classic or RTC client)
- 1 Menu suite (Could be one extra if using both Classic and RTC client)

Total number of objects: 6

3 Master Data

The following MediusFlow entities are imported in the master data transfer process:

XI Entity Name	Imported	Remark	Comment
AccrualTemplate	MANUAL	Must be manually created in MediusFlow	
Company	MANUAL	Must be manually created in MediusFlow	
CurrencyCode	SUPPORTED		
CurrencyRate	SUPPORTED		
DimensionValue	SUPPORTED		Requires configuration of dimensions in MediusFlow Setup form/page before master data transfer is run
DimensionValueConfiguration	NO SUPPORT		N/A*
DimensionFixedRestriction	SUPPORTED		
DimensionRequiredRestriction	SUPPORTED		
DimensionForbiddenRestriction	SUPPORTED		
DimensionOptionalListRestriction	NO SUPPORT		N/A*
DimensionRequiredListRestriction	NO SUPPORT		N/A*
ForbiddenListRestriction	SUPPORTED		
TaxCode	SUPPORTED		<p>New configuration: Requires activation of "Two Tax Indicators" in Mediusflow R13 HF3 or later and import VAT Bus. Posting Group (Tax Indicator 1) and VAT Prod. Posting Group (Tax Indicator 2) are imported together with TaxCodes (unique records of combined VAT % and VAT account).</p> <p>Old configuration: Imports tax codes (VAT Prod Posting Codes in NAV) as Dimension12 values, similar to Mediusflow pre-XI to</p>

XI Entity Name	Imported	Remark	Comment
			be able to use tax code on coding line in Mediusflow
Period	NO SUPPORT		Although existing it is hardly never used in Dynamics NAV.
PaymentTerm	SUPPORTED		Requires that the table object MFL_ITG_Payment Terms in NAV is filled (action on Mediusflow Setup form/page) before master data transfer is run. This table will be updated continuously because it is filled every time a posting is performed in the integration.
Supplier	SUPPORTED		
SupplierConfiguration	NO SUPPORT		N/A*
Item	SUPPORTED		
PurchaseOrder	SUPPORTED		Return order is stored in separate tables in NAV, source is included in master data process to transfer to Mediusflow
User	SUPPORTED	Not imported from NAV	Can be imported from Active Directory or similar
UserConfiguration	SUPPORTED	Not imported from NAV	Can be imported from Active Directory or similar

*) Has not been requested

4 Message Exchange

Posting scenarios	Supported in the integration package?	Comment
Expense invoice - preliminary and final posting	YES	See sections below for details: 1. Preliminary Posting, 2. Preliminary response, 3.Final posting, 4. Final Posting response Note: Available for NAV SE versions only or as customization
Expense invoice - only final posting	YES	Note: Available for both NAV SE and INT versions
Expense invoice - invalidation of preliminary posting	YES	Note: Available for NAV SE versions only or as customization

Posting scenarios	Supported in the integration package?	Comment
Expense invoice - accrual accounting	YES	Note: Available for NAV SE versions only or as customization
Invoice match with detailed level connection	YES	Note: No support for "Code as separate line", only "Split proportionally" for deviation management
Invoice match with line level match	YES	Note: No support for "Code as separate line", only "Split proportionally" for deviation management
Invoice match with head match	YES	Note: No support for "Code as separate line", only "Split proportionally" for deviation management
Invoice match without goods receipt lines	NO	Implementation of Dynamics Match will come in package 5.1
Actual payment date response	NO	N/A
Add link to Invoice in MediusFlow in NAV	YES	Link to document in MediusFlow, user have to authenticate.
Adjustment requests with block and release payments	NO	

5 Business process support

This section describes what business process support the integration package includes

5.1 VAT management

The NAV integration package is build to handle different VAT setups in NAV. The VAT Module using Two Tax Indicators is activated in the default setup of Mediusflow and NAV integration.

5.1.1 VAT posted on head level

Scanned/Imported total VAT amount is send on header level to NAV.

In preliminary postng (if used) the VAT code to be used in NAV VAT Posting Setup is defined by the combination of the "VAT Business Posting Group" for the invoice supplier and the "VAT Product Posting Group" taken from the configuration in the MediusFlow setup form/page in NAV. There is a possibility to configure different "VAT Product Posting Group" codes for Only VAT, No VAT and EU VAT to be used in the preliminary posting process.

5.1.2 VAT posted on line level

Users are coding invoices in Mediusflow using two tax indicators; VAT Bus Posting Group and VAT Prod Posting Group, on each coding line. Note: Tax Indicator 1 is always taken from the supplier, only Tax Indicator 2 can be altered on line level.

The VAT module in Mediusflow is calculating the corresponding VAT amounts and coding.

Final posting includes cost coding lines with two tax indicators that the integration code in NAV uses to generate the VAT coding lines as well as calculate the total VAT on the invoice.

5.2 Invoice flows

5.2.1 Preliminary Posting

Note: Available for SE versions only

The preliminary posting message from MediusFlow contains the invoice header information. The integration code first creates the invoice header in NAV and based on that information it creates and posts an inward registration by calling standard functions in NAV. The SweBase (earlier BASE) module (extension of inward registration) is commonly used in SE versions of NAV. If SweBase add-on is specified in the deployment script it will replace parts of the standard inward registration.

The function "Use inward registration" must be activated on MediusFlow Setup form/page.

If the functions "Use invoice date as posting date" and/or "Use next open date as posting date" are activated it affects the posting date of the inward registration.

If the function "Reuse document numbers" is activated and something goes wrong with the posting it will try to reuse the same document again when the invoice is reposted from MediusFlow.

5.2.2 Preliminary Response

Note: Available for SE versions only

The response (voucher or error message) is sent back to Mediusflow in the same call to the web service in NAV. The response holds the preliminary voucher number that was given when the invoice/credit memo was created in NAV.

5.2.3 Cancel Posting

Note: Available for SE versions only

The cancel posting message contains information to let the integration code find the inward registration of the invoice and delete the document. If the invoice is already final posted in NAV it will send an error back to MediusFlow.

Note2: If the option "Reuse document numbers" is activated it will reverse the inward registration and erase the information from the created invoice, but keep the verification number to be reused. Activating this function must be discussed with the customer.

5.2.4 Cancel Response

Note: Available for SE versions only

The response (voucher or error message) is sent back to Mediusflow in the same call to the web service in NAV.

If no document was found (no inward registration was made or some other reason) a voucher of success will be sent back automatically.

5.2.5 Final Posting

The final posting message from MediusFlow contains the invoice header information, the coding information (with accrual accounting information such as accrual template name and start date if the Periodic module exists in NAV (SE localization)) and the purchase order based information (if it is a PO based invoice).

The integration code uses the existing invoice document (if inward registration has been performed) or creates a new invoice document and add invoice lines with coding information and fetches the connected delivery lines (if it is a Po based invoice) and posts the invoice by calling standard functions in NAV

Tax is posted based on the General VAT set up in NAV, two parameters are used to get the VAT percentage on a coding line and NAV calculates the VAT amount per coding line when the invoice lines are created:

1) Business Prod Posting Group of the vendor

2) VAT Prod Posting Group of the G/L Account or Item (or the value of Tax Indicator 2 in MediusFlow which overrides the default value in NAV)

If the functions "Use invoice date as posting date" and/or "Use next open date as posting date" are activated it affects the posting date of the final posting

5.2.6 Final Response

The response (voucher or error message) is sent back to Mediusflow in the same call to the web service in NAV.

5.3 Actual Payment Response

N/A