

New VAT return of Norway with direct submission to Altinn in Dynamics 365 Finance

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Agenda

-
- Overview of the new VAT return format
 - Overview of the process of direct submission of VAT return to Altinn
 - What must be done before preparing your Finance to interoperate with Altinn
 - General concept of the implementation
 - How to prepare your Finance for new VAT return with direct submission to Altinn
 - How to authorize your Finance in Altinn
 - VAT return generation and submission to Altinn
 - Q & A

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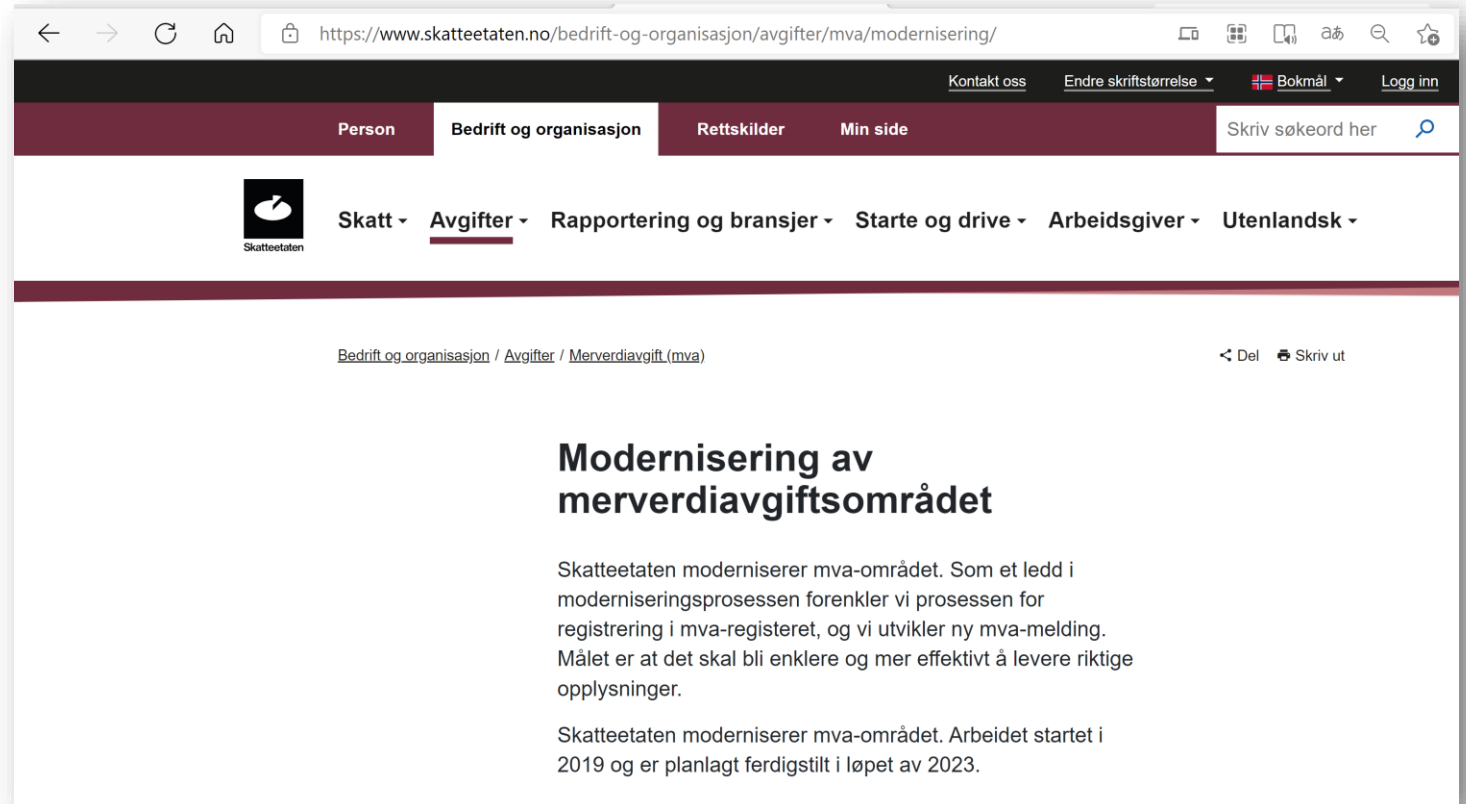
Overview of the new VAT return format (1/3)

As a part of the Norwegian Tax Administration's MEMO-project, new VAT return is introduced from the 1st of January 2022.

New VAT return is:

- based on standard SAF-T codes
- to be submitted directly from the accounting system

[Modernization of the sales tax area - The Norwegian Tax Administration \(skatteetaten.no\)](https://www.skatteetaten.no)

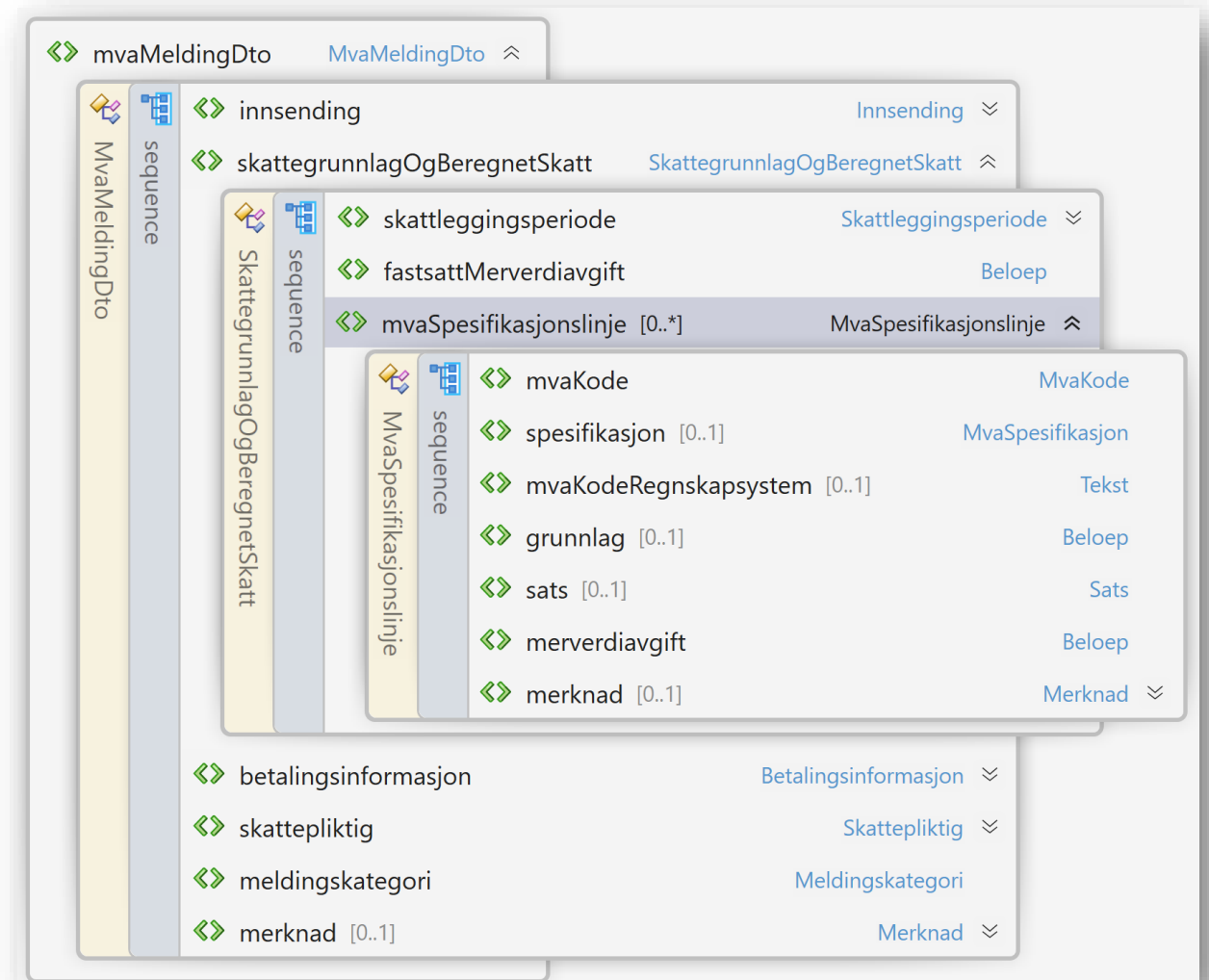


Overview of the new VAT return format (2/3)

New VAT return is a file in XML (eXtensible Markup Language) format. Version 1.0 of the XSD for the VAT return – is the currently required version of the schema.

Detailed schema description:

[Mva-meldingen](https://skatteetaten.github.io/Mva-meldingen)
(skatteetaten.github.io)



Overview of the new VAT return format (3/3)

Group And Code	Description Of Code, Deductions And Specification
Sales of goods and services in Norway	
3	Sales and withdrawals of goods and services (standard rate)
Specification line for code 3	withdrawal
31	Sales and withdrawals of goods and services (middle rate)
Specification line for code 31	withdrawal
33	Sales and withdrawals of goods and services (low rate)
Specification line for code 33	withdrawal
5	Sales of goods and services exempt from value added tax
Specification line for code 5	withdrawal
6	Sales of goods and services outside the scope of the Value Added Tax Act
Sales of goods and services to other countries (exports)	
52	Sales of goods and services exempt from value added tax to other countries
Purchases of goods and services in Norway (Deductions)	
1	Purchases of goods and services (standard rate)
Specification line for code 1	losses on outstanding claims and cancellations
Specification line for code 1	adjustment of input VAT on capital goods
Specification line for code 1	reversal of input VAT on passenger vehicles or Sale etc of real property before completion
11	Purchases of goods and services (middle rate)
Specification line for code 11	losses on outstanding claims and cancellations
13	Purchases of goods and services (low rate)
Specification line for code 13	losses on outstanding claims and cancellations
Purchases of goods from abroad (import)	
81	Purchases of goods from abroad with deductions (standard rate)

VAT accounting of the companies must allow mapping of the VAT transactions to:

- ✓ Standard SAF-T codes (mvaKode)
- ✓ Specifications (spesifikasjon)
- ✓ Note (merkand)

Description of Standard VAT codes and Specifications:

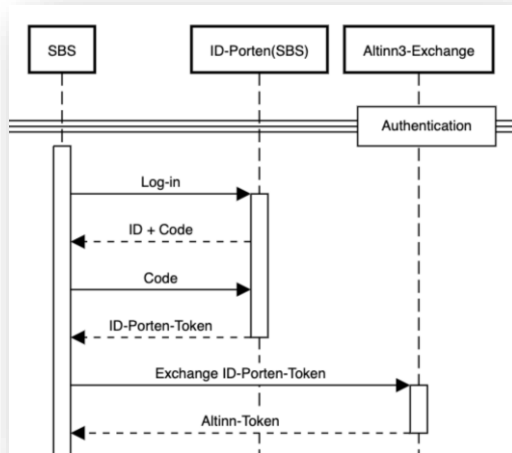
<https://skatteetaten.github.io/mva-meldingen/english/informasjonsmodell/#encoding>



Agenda

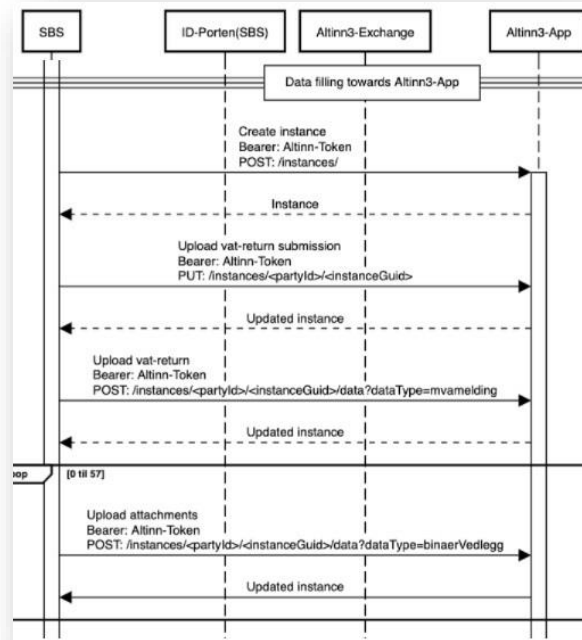
-
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Process of direct submission of VAT return to Altinn



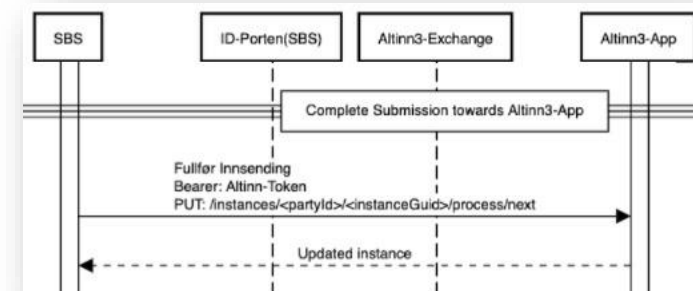
Authorization

1



Data filling

3

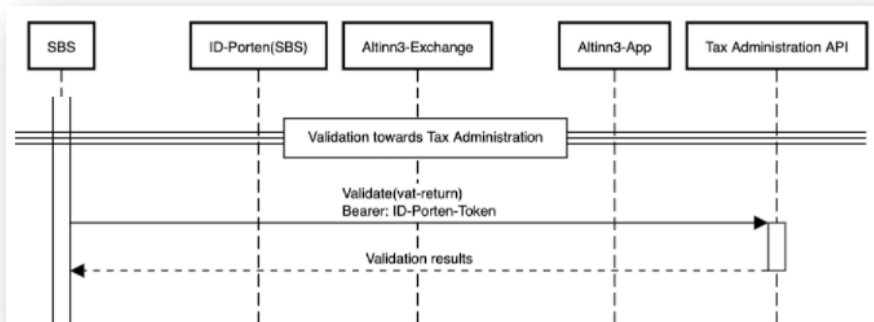


Complete submission

5

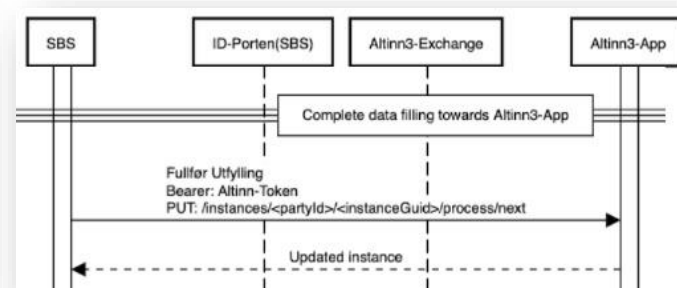
Complete data filling

4



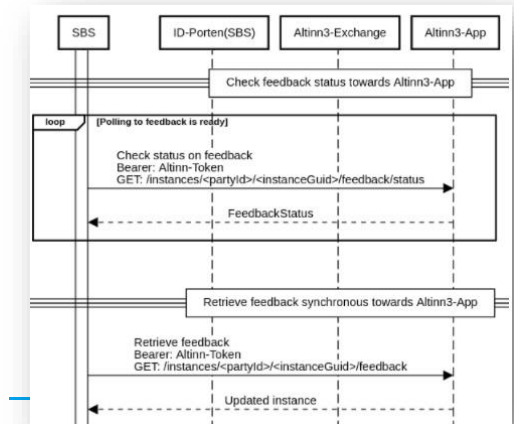
Validation

2



Retrieve feedback

6



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Prerequisites

Before you start, check the following:

- ✓ Company is registered for VAT in Norway
- ✓ An ID-porten account must be created for the company
- ✓ ID-porten integration point must be created and properly setup (details follow on the next slide)
- ✓ User who will authorize Finance against Altinn and submit VAT return must have Norwegian social security number that is granted with a special role in altinn.no to submit VAT.
- ✓ Sales tax codes which must be included for VAT return are in NOK and their structure is enough to accommodate all the SAF-T codes and specifications applicable for the company's business.

Prerequisites: ID-porten integration point must be created and properly setup

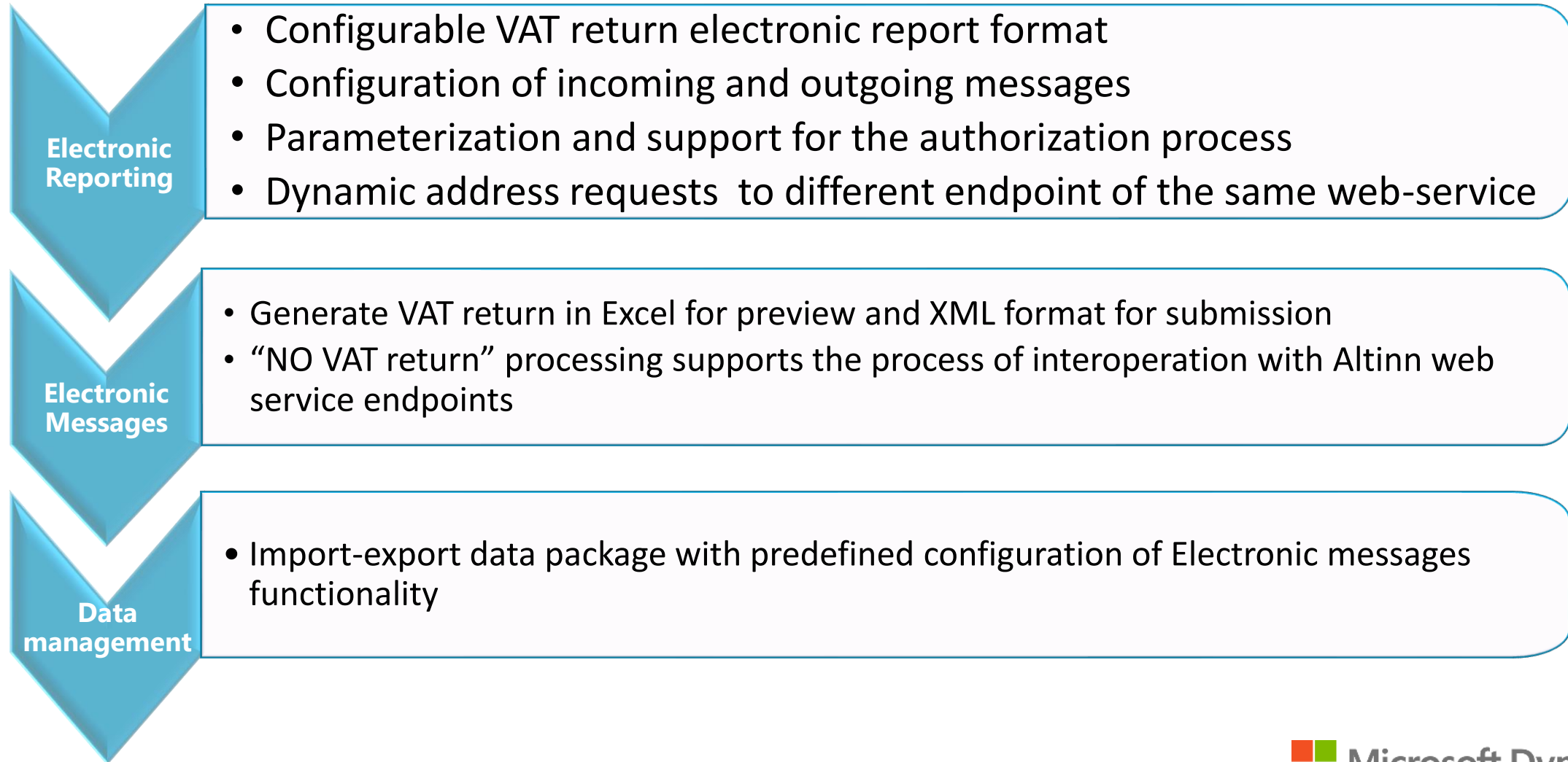
The screenshot shows the 'Digitaliseringsdirektoratet Samarbeidsportalen' interface. The left sidebar contains a menu with items like 'Virksomhetens kalender', 'Virksomhetens bruksvilkår', 'Virksomhetens saker', 'Virksomhetens tjenester', 'Administrasjon av tjenester', 'Virksomhetens kunder', 'Virksomhetens statistikker', and 'Min profil'. The main content area is titled 'Om Samarbeidsportalen' and 'Min profil | Logg ut'. Below this, there's a navigation bar with 'Bruksvilkår', 'Fellesløsninger', 'Aktuelt', 'Rapporter og statistikk', and 'Driftsmeldinger'. The main content area is divided into two columns. The left column contains fields for 'Diff-tjeneste*', 'API-klient', 'Scopes', 'Kundens org.nr.*', 'Integrasjonens identifikator', 'Navn på integrasjonen*', 'Beskrivelse*', 'Tillatte grant types*', and 'Klientautentiseringsmetode*'. The right column contains fields for 'Applikasjonstype*', 'Gyldig(e) redirect uri-er*', 'Gyldig(e) post logout redirect uri-er*', 'Frontchannel logout url', 'Frontchannel logout krever sesjons-id', 'Tilbake-uri*', 'Authorization levetid (sekunder)', 'Access token levetid (sekunder)', 'Refresh token levetid (sekunder)', 'Refresh token type*', and 'Nøkler'. The 'Nøkler' section at the bottom has buttons for 'Virksomhetens sertifikat', 'Egne public nøkler', 'Slett nøkler', and 'Registrer jwks til utslippstaxa'. The 'Nøkler' section also has a table with columns 'kid', 'alg', 'kty', and 'use'.

- ID-porten documentation: <https://samarbeid.digdir.no/id-porten/ta-i-bruk-id-porten/94>
- OpenID connection documentation: https://docs.digdir.no/oidc_index.html
- Details of the proper setup of your integration point in the ID-porten are described in the feature documentation: [Register an integration point in the ID-porten web portal - Finance | Dynamics 365 | Microsoft Docs](#)

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General concept of the implementation



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Review and analyze the processes of the company

Tax master data and financial reasons defined in your Finance must be reviewed and the following changes must be applied if needed:

- ✓ Create enough [Financial reasons](#) to be sure that all the necessary scenarios where <markand> (note) on the level of <mvaSpesifikasjonslinje> node will be reported properly.
- ✓ Create enough Sales tax codes / Sales tax groups / Item sales tax groups to be sure that all the necessary scenarios where <mvaKode> (standard tax code) and <spesifikasjon> (specification) on the level of <mvaSpesifikasjonslinje> node will be reported properly.

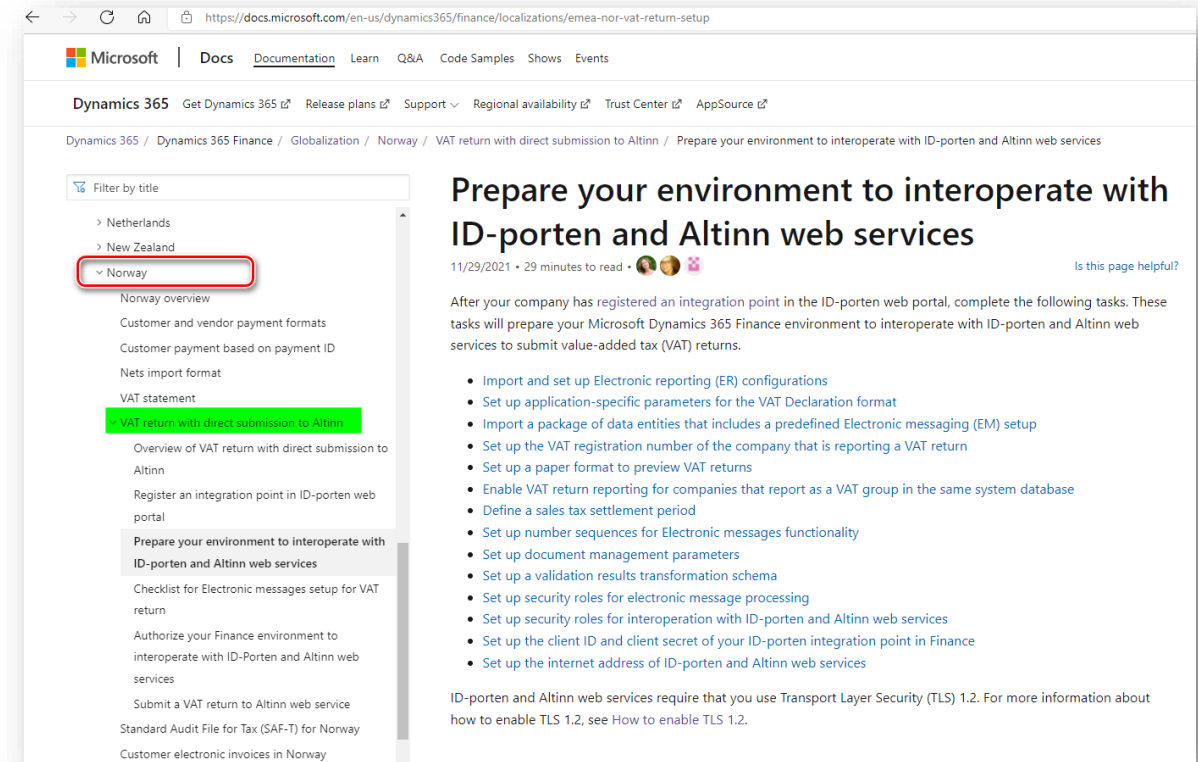


Feature setup steps

Setup guidance:

[Prepare your environment to interoperate with ID-porten and Altinn web services - Finance | Dynamics 365 | Microsoft Docs](https://docs.microsoft.com/en-us/dynamics365/finance/localizations/emea-nor-vat-return-setup)

- ✓ Enable features in Feature management
- ✓ Import ER configurations from Global repository
- ✓ Set up application-specific parameters
- ✓ Number sequences for Electronic messages functionality
- ✓ Paper format to preview VAT return
- ✓ Document management parameters
- ✓ Import a package of data entities that includes a predefined Electronic messaging (EM) setup
- ✓ VAT registration number of the company that is reporting VAT return
- ✓ Define a sales tax settlement period
- ✓ XSLT schema of validation results transformation
- ✓ Security roles for electronic message processing and to interoperate with ID-porten and Altinn web services
- ✓ Client ID and client secret of your ID-porten integration point in Finance
- ✓ Internet address of ID-porten and Altinn web services



Enable features in Feature management

- ✓ Use application specific parameters from previous versions of ER formats (starting from 10.0.23)
- ✓ Align ER application specific parameters while importing (starting from 10.0.24)
- ✓ **Enable extended support of Financial reason code**
- ✓ **VAT statement format reports**
- ✓ Cross-company queries for the populate records actions (for VAT group reporting only)

To use VAT return for Norway with direct submission to Altinn feature in legal entities with multiple VAT registration, read the following topic: [Multiple VAT registration numbers - Finance | Dynamics 365 | Microsoft Docs](#)

Import and set up ER configurations

The screenshot displays the 'Finance and Operations Preview' interface. On the left, a navigation pane lists various models, with 'Tax declaration model mapping' highlighted under the 'Tax declaration model' category. The main area shows the configuration details for 'Tax declaration model mapping'. The 'Default for model mapping' toggle is set to 'Yes'. The 'State' dropdown is set to 'Completed'. The 'Lookups' section shows three lookups: 'NoteForTaxCode_Lookup', 'VATSpecification_Lookup', and 'StandardTaxCodes_Lookup'. The 'Conditions' section shows a table with columns: 'Lookup result', 'Label', 'Description', 'Line', 'Tax code (Code)', and 'Transaction Classifier (Trans...)'. The table contains 11 rows of data, including 'Deductible domestic input VAT, 25%', 'Deductible domestic input VAT, 15%', 'Deductible domestic input VAT, 11.11%', 'Deductible domestic input VAT, 12%', 'Outgoing VAT, 25%', and 'Outgoing VAT, 15%'.

Configurations | My view

Name: Tax declaration model mapping | Description: Generic model mapping for V... | Country/region codes: | Configuration provider: Microsoft | Default for model mapping: ☒ Yes

Versions

ISO Country/region codes

Configuration comparison | VAT DECLARATION XML (NO) : MICROSOFT | Standard view

State: Completed

Prerequisites

Tags

Discontinuation details

Lookups

Name	Label	Description	Cross com...
NoteForTaxCode_Lookup	Note on the tax code	Code list to show the con...	✓
VATSpecification_Lookup	VAT specification	Code list for further specif...	✓
StandardTaxCodes_Lookup	Standard tax codes	VAT code provided by the...	✓

Conditions

Columns: + Add Delete Move up Move down

Lookup result	Label	Description	Line	Tax code (Code)	Transaction Classifier (Trans...)
1	Deductible domestic input VAT, 25%	Deductible d...	1	25%	Purchase
1	Deductible domestic input VAT, 25%	Deductible d...	2	25%	PurchaseCreditNote
11	Deductible domestic input VAT, 15%	Deductible d...	3	15%	Purchase
11	Deductible domestic input VAT, 15%	Deductible d...	4	15%	PurchaseCreditNote
12	Deductible domestic input VAT, 11.11%	Deductible d...	5	11.11%	Purchase
12	Deductible domestic input VAT, 11.11%	Deductible d...	6	11.11%	PurchaseCreditNote
13	Deductible domestic input VAT, 12%	Deductible d...	7	12%	Purchase
13	Deductible domestic input VAT, 12%	Deductible d...	8	12%	PurchaseCreditNote
3	Outgoing VAT, 25%	Outgoing VA...	9	25%	Sales
3	Outgoing VAT, 25%	Outgoing VA...	10	25%	SalesCreditNote
31	Outgoing VAT, 15%	Outgoing VA...	11	15%	Sales

❑ Import ER configurations from Global repository and mark **Default for model mapping**:

- ✓ Tax declaration model mapping
- ✓ Altinn VAT model mapping

❑ Set up and **complete** application-specific parameters for:

- ✓ VAT Declaration XML (NO)
- ✓ VAT Declaration Excel (NO)

Set up General ledger Document management parameters

☐ In General ledger parameters set up:

- ✓ Number sequences for Electronic messages functionality
- ✓ Paper format to preview VAT return

☐ In Document management parameters check set up of the following file type:

- ✓ XML - eXtensible Markup Language
- ✓ XLS, XLSX – Microsoft Excel worksheet, Microsoft Office Excel 2007 worksheet
- ✓ XSLT - eXtensible Stylesheet Language Transformations
- ✓ JSON - JavaScript Object Notation

Set up Electronic messages

Import a package of data entities that includes a predefined Electronic messaging (EM) setup and then define:

- ✓ VAT registration number of the company that is reporting VAT return
- ✓ Sales tax settlement period
- ✓ XSLT schema of validation results transformation
- ✓ Security roles for electronic message processing and to interoperate with ID-porten and Altinn web services
- ✓ Client ID and client secret of your ID-porten integration point in Finance
- ✓ Internet address of ID-porten and Altinn web services

Demo 1:

Prepare your Finance for VAT return of Norway with direct submission to Altinn

Get started

Issue search

Learn
Use our documentation to get up and running quickly.

Blog
Learn about scheduled maintenance and new feature releases from Lifecycle Services engineering team.

Downloadable tools
Resources for repeatable and predictable implementations.

Recent projects All projects Implementation



REGULATORY ALERTS - WORLDWIDE Microsoft	 Microsoft
 Microsoft	 Microsoft
 Microsoft	 Microsoft
 Microsoft	 Microsoft

Announcements

Legacy Microsoft Edge/Internet Explorer browser end of support August 17, 2021
Support for legacy Microsoft Edge/Internet Explorer browsers will be removed after August 17, 2021. If you are currently using one of these, update to the latest version for better browsing experience in Dynamics Lifecycle Services. Please click here for more information.

Changes coming soon to your LCS environments
Lifecycle Services is simplifying package deployment by mandating an All-in-one Deployable Package (ADP) for production and sandbox environments in the coming months. Development and Test environments are not impacted.

- Manage methodologies
- Preview feature management
- Organization users
- Manage incidents
- Globalization portal
- Shared asset library
- Translation service
- Solution management

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How to authorize your Finance in Altinn

Finance and Operations Preview

Tax > Setup > Electronic messages > Web applications

Save + New Delete Get authorization code Obtain access token Refresh access token Options

Access token was successfully obtained.

Web applications | Standard view

Application name: NO ID-Porten Description: Web application to interoperate...

General

REQUEST PARAMETERS

Base URL: https://oidc-ver2.difi.no/idporte... Authorization URL path: /authorize Token URL path: /token Redirect URL: https://...

WARNING: Third party services or other services that you configure here do not require certification and they might not meet Microsoft privacy standards. You should review each service's privacy documentation and work with each service provider to learn more about each service's provided level of compliance. You are responsible for ensuring that these services meet your security, privacy and legal standards. You bear the risk of using it. Microsoft gives no express warranties, guarantees or conditions. It is strongly recommended that you use only services that provide secure and authorized connections (https://).

AUTHORIZATION PARAMETERS

Client ID: ***** Client secret: ***** Server token:

ACCESS TOKEN DETAILS

Granted scope: openid Access token will expire in: 0 days, 1 hour

ELECTRONIC REPORTING PARAMETERS

Authorization format mapping: Altinn VAT authorization form...

WEB REQUEST PARAMETERS

Accept: Content type: application/json

1. Authorize first in ID-porten:
 - ✓ Get authorization code
 - ✓ Obtain access token - **this must be done immediately after the authorization code is received (!)**

Note: The authorization of your Finance environment in your integration point in ID-porten is *user-specific*.

Finance and Operations Preview

Tax > Setup > Electronic messages > Web applications

Edit + New Delete Get authorization code Obtain access token Refresh access token Options

Access token was successfully obtained.

Web applications | Standard view

Application name: NO Altinn Description: Web application to interoperate...

General

REQUEST PARAMETERS

Base URL: https://platform.tt02.altinn.no/a... Authorization URL path: Token URL path: Redirect URL:

WARNING: Third party services or other services that you configure here do not require certification and they might not meet Microsoft privacy standards. You should review each service's privacy documentation and work with each service provider to learn more about each service's provided level of compliance. You are responsible for ensuring that these services meet your security, privacy and legal standards. You bear the risk of using it. Microsoft gives no express warranties, guarantees or conditions. It is strongly recommended that you use only services that provide secure and authorized connections (https://).

AUTHORIZATION PARAMETERS

Client ID: Client secret: Server token:

ACCESS TOKEN DETAILS

Granted scope: Access token will expire in: 0 days, 1 hour, 1 minutes

ELECTRONIC REPORTING PARAMETERS

Authorization format mapping: Altinn VAT authorization format... Import token model mapping: Altinn VAT im... Altinn VAT Alt...

WEB REQUEST PARAMETERS

Accept: Content type: application/json

2. Authorize in Altinn:
 - ✓ Obtain access token

Demo 2: Authorize your Finance in ID-porten and Altinn for VAT return



Contoso Entertainment System Germany

< November 2021 >

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Work items assigned to me ^

Cash advance request : Record ret...

Expense reports : Record returned

Catalog : catalog approval

Expense reports : Expense report a...

Cash advance request : Cash advan...

Approve travel requisition

Catalog : catalog approval



Bank management



Customer invoicing



Master planning



Released product maintenance



Benefits



Customer payments



My business processes



Reservation management



Budget planning



Data management



Optimization advisor



Resource lifecycle management



Business document management



Data validation checklist



Outbound work monitoring



Retail and Commerce IT



Business processes for human resources



Distributed order management



Outbound work planning



Revenue management



Business processes for payroll



Electronic reporting



Payroll management



Sales order processing and inquiry



Cash overview - all



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VAT return generation for preview

When:

- ✓ **VAT statement format reports** feature is enabled in Feature management
- ✓ **VAT Declaration Excel (NO)** is set up in GL parameter in **VAT statement format mapping** field
- ✓ **Report layout** is set to **Default** for the **Sales tax authority**

You can generate VAT return in Excel format for preview from the following menu items:

- ✓ **Tax > Declarations > Sales tax > Report sales tax for settlement**
- ✓ **Tax > Inquiries and reports > Sales tax inquiries > Sales tax payments** and using **Print report** on the Action pane

Or you can use Electronic messages during preparing your VAT return for submission.

VAT return generation and submission to Altinn

The process of VAT return generation and submission is organized by using [Electronic messages](#) functionality. The step-by-step process is described in the documentation: [Submit a VAT return to the Altinn web service - Finance | Dynamics 365 | Microsoft Docs](#)

1. Create message
2. Collect sales tax payments
3. Mark message as ready to generate VAT return
4. Preview VAT return in Excel
5. Generate VAT return
6. Validate VAT return in Tax Administration web service
7. Submit VAT return
8. Download attachments

Demo 3.1

Generation and submission of VAT return Happy-path

Dashboard -- Finance and Oper...

https://usnconeboxax1aos.cloud.onebox.dynamics.com/?cmp=demf&mi=DefaultDashboard

Search for a page

DEMF

AD

Home

Star

Calendar

Calendar

Calendar

Contoso Entertainment System Germany

< November 2021 >

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Work items assigned to me

Cash advance request : Record ret...

Expense reports : Record returned

Catalog : catalog approval

Expense reports : Expense report a...

Cash advance request : Cash advan...

Approve travel requisition

Catalog : catalog approval

Bank management

Customer invoicing

Master planning

Released product maintenance

Benefits

Customer payments

My business processes

Reservation management

Budget planning

Data management

Optimization advisor

Resource lifecycle management

Business document management

Data validation checklist

Outbound work monitoring

Retail and Commerce IT

Business processes for human resources

Distributed order management

Outbound work planning

Revenue management

Business processes for payroll

Electronic reporting

Payroll management

Sales order processing and inquiry

Cash overview - all

Demo 3.2

How to deal with validation errors in VAT return

Electronic messages -- Finance --

https://usnconeboxax1aos.cloud.onebox.dynamics.com/?cmp=demf&mi=ElectronicMessages

Sign in

Finance and Operations Preview

Search for a page

DEMF

SaveRun processingOptions

Filter

NO VAT return
Momsoppgave med direkte innsend...

Electronic messages | Standard view

Messages

+ NewDeleteCollect dataGenerate reportSend reportImport responseUpdate statusMessage items

Message	Description	Message status	From date	To date
DEMF-000023	VAT return Sep-Oct 2021	NO VAT SUCCESSFUL VAT return su...	9/1/2021	10/31/2021

Action log

Action	Status from	Status to	Created by	Created date and time	Response cor
NO VAT Download validation result	NO VAT Return received by T...	NO VAT Successful download of fina...	Admin	11/26/2021 8:08:50 PM	
NO VAT Import final validation result	NO VAT Successful downloa...	NO VAT SUCCESSFUL VAT return su...	Admin	11/26/2021 8:08:52 PM	
NO VAT Download payment informa...	NO VAT SUCCESSFUL VAT re...	NO VAT Successful file download	Admin	11/26/2021 8:09:36 PM	
NO VAT Download receipt	NO VAT Successful file down...	NO VAT Successful file download	Admin	11/26/2021 8:10:23 PM	
NO VAT Download validation result	NO VAT Successful file down...	NO VAT Successful download of fina...	Admin	11/26/2021 8:11:03 PM	
NO VAT Import final validation result	NO VAT Successful downloa...	NO VAT SUCCESSFUL VAT return su...	Admin	11/26/2021 8:11:05 PM	

Message additional fields

Field value
n kan velge mellom en predefinert liste av merknader eller fylle ut fritekst

VAT return for Norway - release

Enable extended support of Financial reason code feature is available in **Feature management** starting from the following versions of Finance:

Finance version	Build
10.0.24	10.0.1052.0
10.0.23	10.0.1037.36
10.0.22	10.0.995.75
10.0.21	10.0.960.114

ER configurations to generate VAT return in Excel and XML are supported starting from the following versions of Finance:

Finance version	Build
10.0.24	10.0.1052.0
10.0.23	10.0.1037.57
10.0.22	10.0.995.98
10.0.21	10.0.960.134



Q & A

Q & A (1 / 3)

Q	A
Where can I find the base URL for Norwegian VAT return integration?	Production URLs can be found by this link provided by the tax authority representatives: https://oidc.difi.no/idporten-oidc-provider/.well-known/openid-configuration and https://docs.digdir.no/oidc_func_wellknown.html. Related documentation: https://docs.microsoft.com/en-us/dynamics365/finance/localizations/emea-nor-vat-return-setup#internet-address
If we have 500+ legal entities in Finance, is there an easier way to automate the process?	If there are 500+ legal entities in Finance and VAT return of each of them must be reported separately. You can set up and use one single integration point in ID-porten, but each VAT return for each separate VAT registration number must be reported separately. In case 500+ legal entities are registered as a VAT group and their VAT return can be reported as one, see "Enable VAT return reporting for companies that report as a VAT group in the same system database" section of our documentation.

Q & A (2 / 3)

Q	A
Is there a payment-ID in the receipt, for where to pay tax the tax, and where is it saved?	In the EM processing there should be one more additional field visible and editable (together with the Merkand). In this field user should be able to define the KID that must be reported in <kundidentifikasjonsnummer> tag of the XML file. This additional field was introduced in scope of the following hotfix: Details for issue 640964 (dynamics.com)
Do we need to request a new request token for each submission? I saw that the timeout was very short.	It depends on the integration point setup. There are recommendations in the documentation on how to set up expiration parameters: Register an integration point in the ID-porten web portal - Finance Dynamics 365 Microsoft Docs. In case of following these recommendation, there won't be a necessity to get a new request token for each submission. It will be refreshed automatically before each transmission in case it is expired. For Authorization code it is short, and it cannot be changed. So, after getting the Authorization code, it should be exchanged to ID-Porten token quite fast. It should be done only once during authorization.

Q & A (3 / 3)

Q	A
Will direct submission to Altinn be available from 01.01.2022? Or is it only the new form that will be ready from this date?	The full feature for VAT return with direct submission to Altinn is available and must be used for the periods starting from January 1, 2022.
Do we execute the process with the same credentials (client ID and secret) for both Sandbox and Production environments by only checking the link/endpoint?	No, each integration point has its own credentials. So, together with changing endpoint address between Sandbox/Production its credentials must be changed.
For which version will this feature be released? 10.0.24, or will it be backported to other versions?	The feature is down-ported and its full scope is available starting from the following builds: 10.0.23 – 10.0.1037.57 10.0.22 – 10.0.995.98 10.0.21 – 10.0.960.134

VAT return of Norway - Useful links

- [Microsoft Dynamics Lifecycle Services](#)
- [Electronic reporting \(ER\) overview - Finance & Operations | Dynamics 365 | Microsoft Docs](#)
- [Electronic messaging - Finance | Dynamics 365 | Microsoft Docs](#)
- [Yammer : Finance and Operations Insider Program : Private: TAX REPORTING](#)
- [Yammer : Finance and Operations Insider Program : Private: Project TARS - Tax Audit and Reporting Service](#)
- [Data management overview - Finance & Operations | Dynamics 365 | Microsoft Docs](#)
- [Mva-meldingen \(skatteetaten.github.io\)](#)
- [Ta i bruk ID-porten | Samarbeidsportalen \(digdir.no\)](#)
- [OpenID Connect i ID-porten | ID-porten \(digdir.no\)](#)



Thank you!