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| Connectivity Guide |
| Establish connection to AS4 Gateway |

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| Onboarding Toldsystemet September 2021 |
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# Document version

Document version:

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| --- | --- | --- | --- |
| Version nr. | Dato | Created by | Updates |
| 2.0 | 14-09/21 | Bjarke Runz Jensen | Reordered, and added additional info. Added description of AS4 simple client (section 7.6) |

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# Introduction

This document describes the details for accessing the AS4 Gateway for delivering files to the new Import declaration system - Toldsystemet.

The document describes server details, and tests steps to confirm a working connection towards the system. The system accepts messages following the AS4 standard. This document describes the general aspects of AS4, the needed AS4-header, security, and attachment setup. Lastly follows common errors, and their resolution.

# Checklist for establishing connectivity

This section describes specific testcases to do, in order to have a fully passed connectivity test. In order to move successfully to the next test-phase, the described test-cases must be passed successfully.

|  |  |  |  |
| --- | --- | --- | --- |
| Test number | Test description | Section | Passed |
| 1 | Acquire VOCES certificate | Section 4. Acquiring certificates, and setup for usage | ☐ |
| 2 | Acquire B2B password | 4.2.1 I don’t have the password for the certificate portal | ☐ |
| 3 | Acquire server certificate | Unix: Method 1 under Unix in section 7.1  Windows: Method 2 under Windows in section 7.1 Verifying network access | ☐ |
| 4 | Register Client Certificate | 7.3 Registering certificate for S2S usage | ☐ |
| 5 | Setting up Roles for System user | [In the guide here](https://github.com/skat/dms-public/raw/master/dokumenter/VejledningRollerTilTP.docx.) |  |
| 6 | Test network access | 7.1 Verifying network access | ☐ |
| 7 | Verify AS4 header filled correctly | 7.5 AS4 setup | ☐ |
| 8 | Verify AS4 header signing | 7.5 AS4 setup | ☐ |

# How to establish connectivity

The DMS Import and Export system, is accessible through two primary channels. Either through the User Interface (UI), or through the system-to-system interface (S2S).

Either option requires you have filled out, submitted application for, and obtained approval for access to the system. All those can be started by following the process described on <https://skat.dk/skat.aspx?oid=2305068>.

Once above application has been approved, your company, and its NemID administrator have the ability to assign accesses for either you employees (for UI access), or for your system user for S2S access. Details on how those accesses are assigned, can be found here: <https://github.com/skat/dms-public/raw/master/dokumenter/VejledningRollerTilTP.docx>.

## UI Access

TastSelv also features the ability for UI access to the test system (Test For Erhverv - TFE). If given, users can login without further setup on the following addresses:

TEST: <https://tfe.toldsystemet.toldst.dk/swp.trader.customs>

Production: <https://toldsystemet.toldst.dk/swp.trader.customs>

## System to System access

S2S access are for companies with a high volume of declarations. Access requires a valid VOCES certificate issued NETS, and a working AS4 client. This guide has multiple sections on how certificates are obtained and managed, as well as details on how AS4 is setup.

Shortly summarized, UFST/TOLDST or SKAT as a whole does not possess the ability to issue or locate the relevant VOCES certificate. This is entirely relegated to either the NEMID responsible within the company, or to the maintainers of the company’s IT solution.

This guide can therefore not provide details on how to locate the relevant certificate, as it entirely depends on who is NEMID responsible, and in possibly where the certificate has been used before. Most S2S solutions within SKAT require a VOCES, so most likely the correct VOCES can be located within one of the running solutions. The following systems within SKAT are known to require VOCES authentication:

* eKapital
* Offentlig Inddrivelse (PSRM)
* Told Manifest
* Told ICS
* Moms via accounting software: <https://skat.dk/skat.aspx?oid=2234574>

Please refer to the checklist in *Section* *2 Checklist for establishing connectivity*, for an index of detailed description of the steps that is needed to follow in order to establish connectivity.

# Acquiring certificates, and setup for usage

UFST/TOLDST or SKAT as a whole does not possess the ability to issue or locate the relevant VOCES certificate. This is entirely relegated to either the NEMID responsible within the company, or to the maintainers of the company’s IT solution.

This guide can therefore not provide details on how to locate the relevant certificate, as it entirely depends on who is NEMID responsible, and in possibly where the certificate has been used before. If all fails in locating an existing certificate, a new can be issued within NETS: [https://www.medarbejdersignatur.dk/produkter/nemid\_medarbejdersignatur/nemid\_selvbetjening/oevrige\_signaturer/virksomhedssignatur/bestil\_virksomhedssignatur](https://www.medarbejdersignatur.dk/produkter/nemid_medarbejdersignatur/nemid_selvbetjening/oevrige_signaturer/virksomhedssignatur/bestil_virksomhedssignatur/). This should be a last resort, since this will invalidate the existing certificate, and break already functional integrations towards SKAT.

## Setup of certificate for usage towards DMS

To setup certificates for usage towards DMS, the following must be completed:

Register certificate within the gateway solution. See Section 7.3 for details.

Configure your client to use certificate. This entails placing the certificate on a server/filesystem the client has access to, and setting up the software to access the certificate, with a correct password. Details for this depends entirely on the used software, and the software vendor can provide details on how to perform this step.

## Acquire user name and password needed for the AS4 header

Access the Gateway portal on:

|  |  |
| --- | --- |
| Environment | Hostname |
| Test/TFE | <https://secureftpgatewaytest.skat.dk> |
| Prod | <https://secureftpgateway.skat.dk> |

You should be prompted for selecting a certificate:

Graphical user interface, text, application, email

Description automatically generated

Select the one that is a valid VOCES certificate. This is determinable via the Certificate Information Button in Chrome:  
Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, application, Word

Description automatically generated

Certificate Properties in IE.

Login with credentials. See below for default credentials.

Once in, you must copy the password listed under Gateway password:  
Graphical user interface

Description automatically generated

### I don’t have the password for the certificate portal

The default is the username listed upon the login page:

Graphical user interface, text, application

Description automatically generated

In this example, the password is CVR\_30808460\_UID\_25351738.

# System to System - Technical overview

This section provides a brief description of the provided system to system solution.

Diagram

Description automatically generated

Diagram 1 – Overview of services provided by the gateway

All S2S operations are performed through the general SKAT gateway, also used for other S2S operations. Service calls are sent through the AS4 protocol, which is similar in nature to normal SOAP services. AS4 builds upon the technologies within the widespread SOAP landscape, by standardizing the exchanged XML-formats, describing patterns for PUSH/PULL interactivity, and standardizing payload signing and encryption.

Even though AS4 is standardized, some parameters and additional architectural choices have been made, to best support the exchange of Declaration relevant information. See details on AS4 specific choices in Section 7.5.

The general flow for interacting with DMS, is to push a declaration XML towards the system, and continually request updates for all declarations, and update when new information arrives. Details on the flow of data is described in the [onboarding guide](https://github.com/skat/dms-public/blob/master/dokumenter/OnboardingguideToldportalen.docx), and an overview of provided notifications can be seen the [import system guide](https://github.com/skat/dms-public/blob/master/dokumenter/ImportH7SystemGuide.docx).

As shown in Diagram 1, the gateway exposes multiple services, most are in an “asynchronous” flow, where an immediate syntax validation is provided, and deeper validation steps are performed upon the declaration, and delivered via notifications at a later point. All services require a signed payload, where the signing must be performed using a VOCES certificate. See details on signed payloads in Section 7.5.5.

# System to System Server details

|  |  |  |  |
| --- | --- | --- | --- |
| Environment | Hostname | Port | IP |
| Test/TFE | secureftpgatewaytest.skat.dk | 6384 | 195.85.251.58 |
| Prod | secureftpgateway.skat.dk | 6384 | 195.85.251.102 |

The client needs access to this server, on the correct port.

**Important note: SKAT cannot help with opening the correct ports for access. Ensure access to the nonstandard ports, in due time, with your maintenance vendor.**

As far as possible, the client needs to resolve the hostname on suitable nameserver. The IP listed above is the currently active IP at the time of writing. The given IP is suitable for change.

## AS4 End Point

The endpoint used depends on the CVR/EORI and UID of the client certificate, the format is described below.

### VOCES CVR Users:

https://<hostname>:6384/exchange/CVR\_<CVR>\_UID\_<UID>

Example:

<https://secureftpgateway.skat.dk:6384/exchange/CVR_30808460_UID_25351738>

### EORI Users

https://<hostname>:6384/exchange/EORI\_<EORI>\_RID\_<RID>

Example:

<https://secureftpgateway.skat.dk:6384/exchange/EORI_SE4445462718_RID_1391404656315>

# Technical reference guide

The following sections are not a step by step guide, but rather a reference guide, an implementer can use to lookup details, and successfully implement an integrated solution.

## Verifying network access

The following section describes various tools and methods for verifying connectivity from the client towards the DMS B2Bi solution. Availability of tools on the client setup will determine the method for testing.

### Unix

This section describes ways to test the connectivity on Unix-style servers, using common connectivity testing tools.

Method #1 – telnet

telnet <Hostname> 6384

Example:

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Description automatically generated with low confidence

Method #2 – nmap

nmap -p 6384 <Hostname>

Example:

Text

Description automatically generated

Method #3 – openssl

openssl s\_client -connect <Hostname>:443 -showcerts

Example:

Text

Description automatically generated

### Windows

This section describes ways to test the connectivity on Windows-style servers, using common connectivity testing tools.

Method #1 - Test-NetConnection [Requires execution in Powershell]

Test-NetConnection <Hostname>-Port 6384

Text

Description automatically generated

Method #2 – Browser

Requires valid VOCES (or similar trusted client certificate in testing clients truststore).

Installation of client certificate on client PC:

Locate suitable certificate. See details section 4.

Install certificate in truststore – if access allows, double-click the pfx/p12 file, and see this menu: 

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Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Verify installation in Widows Certificate manager:   
Open Certificate Manager:   
Graphical user interface

Description automatically generated

Locate Certificate. Certificate Store and naming of client Certificate depends on client setup:A picture containing text, screenshot, monitor

Description automatically generated

Open <https://secureftpgateway.skat.dk> in favourite browser, that has access to the internet, on a client setup that the internal network is setup as the accessing system:   
Graphical user interface, text, application

Description automatically generated

## Verifying correct certificate

Certificates must be of the VOCES format, which contains a unique UID, as well as the CVR/SE-number of the submitting company.

Importantly the CVR/SE-number given in the certificate is not used for any monetary processes, especially for processes related to VAT, or customs debt. It is a purely technical and identifying CVR, to ensure only trusted companies have access.

The steps to verify correct certificate, is to:

Download KeyStore Explorer

Open certificate, by drag-and-drop in the relevant jks/pfx/p12 file, and verify it is of structure:  
Graphical user interface, text, application, email

Description automatically generated

Verify the bottom node is of the format: SERIALNUMBER=CVR:xxxxx-UID:yyyyy+zzzz

## Registering certificate for S2S usage

The Certificate Portal provides self-service for pre-registration of certificates.

TFE: [https://secureftpgatewaytest.skat.dk](https://secureftpgatewaytest.skat.dk/)

PROD: [https://secureftpgateway.skat.dk](https://secureftpgateway.skat.dk/)

You are required to use the same certificate as you would use for the FTPS Gateway.

Graphical user interface, text, application

Description automatically generated

In above example (from IE) you can select from the certificates, which have been imported to the browser. Here we select a NETS test certificate and enter the logon page of the Certificate Portal. The CVR and UID/RID information is extracted from the certificate and you are identified as user: CVR\_30808460\_UID\_25351738.

**Important:** The first time you logon the default password is your user identification, and you may thus simply copy/paste and proceed with logon.

Graphical user interface

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The first time you login you are requested to change password. You may use the passphrase for your certificate or any other password, which will thus be required for subsequently   
logon.

Graphical user interface, application, website

Description automatically generated

In this example the Selfservice portal has no previous knowledge of this certificate and would reject any logon attempt. This means that you must choose to “Register Certificate”

Graphical user interface, text, application, email

Description automatically generated

The registration process will be initiated and should be completed within a few minutes. Use the “Refresh” to verify when the registration has been completed.

Application

Description automatically generated with low confidence

The certificate is now registered, and you see both your Username and assigned password, which you should record for setup of your AS4 session.

Graphical user interface, application

Description automatically generated

Note: Your email address is extracted from the certificate (if present). Please make sure you have a valid and relevant email address for your certificate as this could be used to contact you later.

Note: It is important that you checkmark the AS4 part in the interface section and click Update interfaces.

Finish by selecting “Log out”.  The FTPS Gateway login will be established within 15 minutes from your pre-registration, and you are then ready to upload to the services you have access to (verified with your DCS roles for certificate).

## Certificate Renewal

Whenever you renew a certificate (keeping the same UID/RID) you can use the Certificate Portal to update the certificate in FTPS Gateway. This is done by login on using your new certificate and the password you assigned during your first logon.

Graphical user interface, text, application, email

Description automatically generated

Use “Register Certificate” to update the certificate in FTPS Gateway.

Note: The procedure is the same as with a new certificate, except the assigned FTPS Gateway password will NOT change.

## AS4 setup

AS4 is a standard describing various fields related to the message transfer – described in a header.

AS4 furthermore standardizes encryption and signing of the payload, using the WS-\* standard. AS4 is closely related to SOAP, in that it utilizes the soap-envelope for defining headers and payload elements. The main difference from AS4 has from soap, is that there is no soap-WSDL describing the service. This means that there is not a single file to help define the complete service schemas and endpoints. These settings require manual setup, to define the following:

AS4 header XSD

Payload XSD (either declaration or notification)

Endpoint

Encryption settings

The setup of the following depends wholly on the client setup – there exist many implementations of AS4-clients, and how these settings are applied, is determined by the client.

A list of existing open source AS4-clients can be found on:

<https://peppol.eu/downloads/peppolimplementations/>

and on:

<https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/eDelivery+AS4+conformant+solutions>

The Holodeck AS4 solution has been used internally at UFST for testing the AS4 delivery-method.

An AS4 message allows sending of a payload only as an attachment to the message, and not in the body. In DMS the main payload – the declaration, or request for notification is set to be delivered in the soap-body. The message structure is shown here below:

Diagram

Description automatically generated

The soap attachments are planned for usage for amendments in a later release – and will not be tested as part of the testcases described here.

### AS4 Header

The AS4 header XSD, can be downloaded from this URL: <https://docs.oasis-open.org/ebxml-msg/ebms/v3.0/core/os/ebms-header-3_0-200704.xsd>

Some clients come with this header preloaded.

This section contains information about what information should be contained in the AS4 header.

The following attributes must be provided, the **bolded values must not be changed**, the rest depends on the client certificate and user:

|  |  |  |
| --- | --- | --- |
| Attribute | Value | Example |
| MessageInfo.Timestamp | YYYY-MM-DDTHH:MI:ss.SSSZ | 2021-01-19T15:24:37.376Z |
| MessageInfo.MessageId | GUID@CVR\_<CVR>\_UID\_<UID> | d4872030-3862-4e7b-9754-17a98523e826@CVR\_30808460\_UID\_25351738 |
| PartyInfo.From.PartyId | CVR\_<CVR>\_UID\_<UID>**\_AS4** | CVR\_30808460\_UID\_25351738**\_AS4** |
| PartyInfo.From.Role | **AS4 Initator Role** | **http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/ns/core/200704/initiator** |
| PartyInfo.To.PartyId | **AS4 receiver** | **SKAT-MFT-AS4** |
| PartyInfo.To.Role | **AS4 Initator Role** | **http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/ns/core/200704/responder** |
| CollaborationInfo. Service | Service prefix | DMS.Import (se AS4 service section for details) |
| CollaborationInfo. Action | Service Postfix (Action) | Declaration.Submit (se AS4 service section for details) |
| CollaborationInfo. ConversationId | GUID | f411f3b5-26ff-4207-baf9-a50526d9063f |
| MessageProperties. Property[lang] | **Language** | **EN** |
| MessageProperties. Property[procedureType] | ProcedureType | H7 (se AS4 service section for details) |
| PayloadInfo.PartInfo. PartProperties.Property[original-file-name] | File name | im\_decl\_01.01.2021\_0001.xml |

A full XML example of the messaging header is shown below:

<eb3:Messaging xmlns:mustUnderstand=**"http://www.w3.org/2003/05/soap-envelope"** xmlns:eb3=**"http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/ns/core/200704/"** xmlns:wsu=**"http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"** mustUnderstand:mustUnderstand=**"true"** wsu:Id=**"id-4b2850335f374e5-f471-4f64-9e3d-e1b845277dd9"**>

<eb3:UserMessage>

<eb3:MessageInfo>

<eb3:Timestamp>**2021-01-19T15:24:37.376Z**</eb3:Timestamp>

<eb3:MessageId>**d4872030-3862-4e7b-9754-17a98523e826@CVR\_30808460\_UID\_25351738**</eb3:MessageId>

</eb3:MessageInfo>

<eb3:PartyInfo>

<eb3:From>

<eb3:PartyId type=**"string"**>**CVR\_30808460\_UID\_25351738\_AS4**</eb3:PartyId>

<eb3:Role>**http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/ns/core/200704/initiator**</eb3:Role>

</eb3:From>

<eb3:To>

<eb3:PartyId type=**"string"**>**SKAT-MFT-AS4**</eb3:PartyId>

<eb3:Role>**http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/ns/core/200704/responder**</eb3:Role>

</eb3:To>

</eb3:PartyInfo>

<eb3:CollaborationInfo>

<eb3:Service type=**"string"**>**DMS.Import**</eb3:Service>

<eb3:Action>**Declaration.Submit**</eb3:Action>

<eb3:ConversationId>**f411f3b5-26ff-4207-baf9-a50526d9063f**</eb3:ConversationId>

</eb3:CollaborationInfo>

<eb3:MessageProperties>

<eb3:Property name=**"lang"**>**EN**</eb3:Property>

<eb3:Property name=**"procedureType"**>**H7**</eb3:Property>

</eb3:MessageProperties>

<eb3:PayloadInfo>

<eb3:PartInfo>

<eb3:PartProperties>

<eb3:Property name=**"original-file-name"**>**im\_decl\_01.01.2021\_0001.xml**</eb3:Property>

</eb3:PartProperties>

</eb3:PartInfo>

</eb3:PayloadInfo>

</eb3:UserMessage>

</eb3:Messaging>

### AS4 Services

The following section describes the available services provided by AS4. The parameters MessageProperties[procedureType] and Service.Action in the AS4 header allows setting of which service the AS4 message is destined for. The parameters given ensures correct and immediate payload XML Schema validation, as well as ensuring the correct internal flow for processing the file is started upon receival.

|  |  |
| --- | --- |
| BusinessService | Internal schema and processing  engine |
| DMS.Import.Declaration.Submit | A create declaration (for now only H7) |
| DMS.Import.Declaration.Amend | An amendment for a declaration |
| DMS.Import.Declaration.Amend.Goodspresented | I2 declaration message (Only for selected clients) |
| DMS.Import.Declaration.Invalidate | Invalidation message |
| DMS.Import.Declaration.InvalidateRemissionRepayment | Invalidation and repayment message |
| DMS.Import.Notification | Retrieve the latest notifications. |

### Submitter

In every call to Axway a submitter needs to be filled out in the payload, or in the AS4 header, for all companies the submitter name will be the numbers in their CVR / EORI number, for example, if a company has the following CVR: CVR\_**30808460** then the submitter name will be **30808460**, and will look like this in the payload:

<ns2:Submitter>

<ns2:Name>**30808460**</ns2:Name>

</ns2:Submitter>

### Security

The following webpage describes detailed the security aspects about AS4: <https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/eDelivery+AS4+-+1.14#eDeliveryAS4-1.14-Security>

In general, the DMS solution expects the following elements being signed:

* Body
* Messaging
* cid:Attachments

The solution has been tested using hash-function/digest-method: xmlenc#sha256 – and signature Algorithm: xmldsig-more#rsa-sha256.

The solution does **not**(!) use encryption for the xml messages.

### Complete AS4 Payload Samples

*This section contains a few examples of properly formatted XML messages, with their AS4 headers, sent to DMS, with the replies received included. Fully signed message, with user-name and password:*



*DoubleClick to open the file*

## Using the Simple AS4 Client made by SKAT

During earlier onboarding we observed **significant** difficulty with creating AS4 communication programming therefore a simple to use package was commissioned.

The goal of this package is to make it faster to onboard new economical operators and those who provides services to economical operators.

A Java based simple AS4 client has been developed which is available here: <https://github.com/skat/simple-as4-client>. This link also contains further references to the documentation, and advice for implementation.

This package aims to make it simple to create a client which can communicate with the AS4 portal and through it the DMS import system, as it handles the following:

* Converting an XML format declaration to an AS4 message
* Handles connectivity to the AS4 gateway
* Encryption and signing of AS4 messages
* Sending AS4 messages to Axway
* Receiving replies from Axway

The package is written in Java, and provided as Java dependency. Therefore integration with .NET based projects will be less simple. For .NET based projects we recommend building a small Java based communication middleman REST API, which utilizes the simple AS4 client, that the existing .NET code can communicate with.

## Synchronous answers example

### Approved message

This set of replies is for an approved message, this reply only contains a simple code (OK) which means that the message is approved and is currently being handled by the system. For further information a notification request should be sent to the gateway which will then respond with processing notifications from the requested service for the accepted message.



### Unapproved message

This set of answers are for an unapproved message, in this case the reply contains information about the semantic mistakes that the gateway detected in the message. The gateway synchronously responds with all detected xml schema validation errors.



## Error resolution

This section contains the most common errors that have been reported by partners or observed internally when setting up a connection to DMS, with the goal of streamlining the setup as much as possible.

## DMS Fails to Authenticate User

Here is a possible list of reasons this could have happened:

* Failure:        EBMS:0004 - Other - Unable to identify Party specified by From PartyId element(s).
* Initiator Party ID is wrong
* Failure:        EBMS:0004 - Other - Error in getting password for user [USERNAME]. User, password or policy is not valid or has expired or has been disabled.
* Username is wrong
* Password is wrong
* Massage failed to send, no Pmode found for message
* Signing Keystore Password is wrong
* Signing KeyReference Method is wrong.
* Keystore Alias is wrong.
* Failure:        EBMS:0004 - Other - Unable to identify Party specified by To PartyId element(s).
* Responder Party ID is wrong
* Message doesn't show up in DMS
* Protocol URL is wrong
* Failure:        "[ROUTING ID]" is an unknown routing id.
* Routing ID is wrong, right now the standard routing ID is: "DMS.Import.Declaration.Submit"
* Service is “DMS.Import”
* Action is “Declaration.Submit"

## Certificate Errors

These errors were obtained while trying to get a certificate from the [test certificate portal](https://secureftpgatewaytest.skat.dk/):

* “The supplied certificate is not a valid certificate” when accessing certificate portal
* The certificate is wrong, make sure you are using the correct VOCES certificate.
* “Login failed - verify that your password is correct”
* Certificate password for VOCES certificate is wrong, make sure you have the correct certificate password.

#Decorative

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