

eFaktura Submitter Service

User guide

Versjon 1.0

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1. Changelog

Version	Description	Author	Date
0.1	Created document	Lars Lech-Hanssen	28.05.2016
0.2	Adjustements to WSDL	Morten Gjestad	04.11.2016
0.3	Corrections after technical feedback	Morten Gjestad	14.11.2016
0.4	Added appendix I Alias Lookup Guide	Lars Berg	23.03.2017

2. Introduction

2.1. Intent of this document

The eFaktura Submitter Service – documents the online web service that is offered to Submitters in the eFaktura solution. The document describes all function calls and parameters that will necessary to use the eFaktura solution.

This document and the eFaktura Submitter WSDL will be the needed to implement this service.

2.2. Target Audience

Technical staff in companies that is to become a provider in the eFaktura solution.

2.3. Other documentation

WSDL
HTML version of WSDL
Alias Lookup Guide (Appendix I)

2.4. External resources

XML standard : www.w3.org
SOAP : ws.apache.org/soap/

3. Function overview

3.1. Method calls

The following method calls are available in the service.

Functions
getBlackList
getEfakturaIdentifiers
addInvoices
getInvoiceStatus
getConsignmentStatus
cancelConsignment
cancelInvoice

3.2. Common parameters for all functions

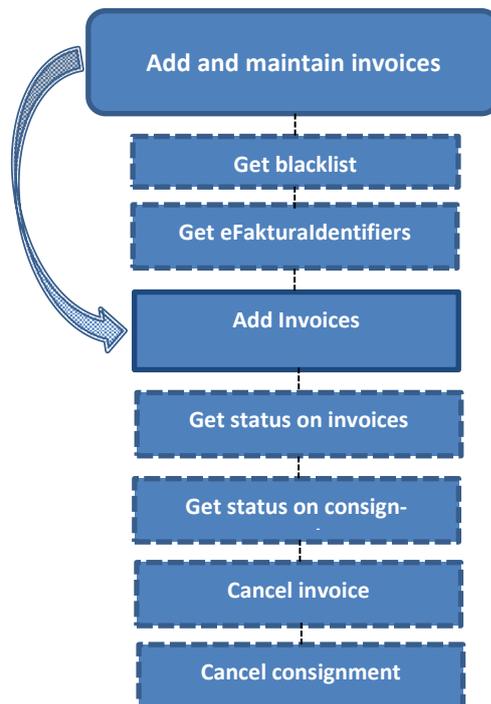
Parameter	Explanation
AuditInformationType	Audit information consists of a MessageIdentifier. This is a string that is used for auditing and logging. It must be between 5 and 50 characters. The provider is free to add the content of the MessageIdentifier, but it is recommended to make it unique for future reference.
UsernameToken	The username token is a part of the WSSE security which is a part of the SOAP header. It must be added for all calls with the username and password that is provided by Nets. If not provided no access will be granted to the service.

3.3. Other errors

If the username and password supplied in the UsernameToken tag in the header is incorrect a ServerFault will be thrown.

4. Implementing the provider service functions

4.1. Scenario description



4.2. *getBlackList*

The submitter is imposed to check whether an Invoice Issuer is blacklisted before adding invoices on behalf of the issuer.

Step	Description	Function call
#1	Return a list of blacklisted invoice issuers.	getBlackList

4.3. *Add invoice on behalf of issuer*

If an issuer is linked to submitter, the submitter may add invoices on behalf of the issuer. Submitter must verify that the consumer accepts invoices and that the issuer is not blacklisted or blocked by the consumer. There are several function calls that can be made to determine this. Based on the information the submitter has about the consumer, the following function calls could be made.

For submitters who has concession to handle SSN (Social security number) and using this to identify the consumer

Step	Description	Function call
#1	Create invoices on behalf of issuer using SSN for identifying the consumer	addInvoices
#2	By providing the consignment id, a status of all the invoices ca be retrieved. Note that if the consignment is not processed the status will be not found.	getConsignmentStatus

For submitters using alias to identify the consumer.

Step	Description	Function call
#1	If the submitter have the consumers alias, lookup the efakturaIdentifier	getEfakturaIdentifiers
#2	Create invoices on behalf of issuer using efakturaIdentifier for identifying the consumer	addInvoices
#3	By providing the consignment id, a status of all the invoices can be retrieved. Note that if the consignment is not processed the status will be not found.	getConsignmentStatus

4.4. *Getting status on a consignment*

When adding invoices a consignment id must be provided. Based on the consignment id and the issuer a status on each invoice may be retrieved.

Step	Description	Function call
#1	Return the status of the consignment and the shipments. Note that if the consignment is not processed the status will be not found.	getConsignmentStatus

4.5. Getting status on an invoice

When adding invoices a consignment id and an invoice id must be provided. Based on these ids and the issuer a status the invoice may be retrieved.

Step	Description	Function call
#1	Return the status of the invoice. Note that if the invoice is not processed the status will not be found.	getInvoiceStatus

4.6. Cancelling a consignment

When cancelling a consignment, a consignment id and invoice ids must be provided. The consignment id can be used to cancel the invoices in a consignment. Note that invoices that have been processed by the consumer cannot be cancelled.

Step	Description	Function call
#1	Sends a request for cancellation of invoices within a consignment	cancelConsignment

4.7. Cancelling an invoice

When cancelling an invoice, a consignment id and invoice id must be provided. These ids can be used to cancel the invoice. Note that invoices processed by the consumer, cannot be cancelled

Step	Description	Function call
#1	Sends a request for cancellation of an invoice	cancelInvoice

Appendix:

Appendix I Alias Lookup Guide

This document is meant to serve as a suggested guideline for developers implementing the eFaktura Service through which they will do lookups in the alias register in order to find specific consumers. The guidelines are based on the regulations enforced by Bits and the service parameters defined by Nets.

1. Alias lookup rules –

The Norwegian banks have, through Bits, agreed on the following basic rules for organizations doing searches in the alias register.

Lookups can be made based on the parameters:

- A) Social Security Number (SSN) or Organizational Number.
- B) eFakturaldentifier.
- C) Name.
- D) Address.
- E) Phone Number.
- F) Email.
- G) “eFaktura-alias”
- H) eFaktura issuer
- I) Birth date.

If a consumer can be identified in the Alias register with:

- Either A) or B).
- I), together with either E) or F).
- With at least two of the variables C) - F).

Then Nets will return the following information:

- Whether the consumer has accepted the eFaktura by default (*JTTA) terms.

If an eFaktura issuer (H) is included among the variables, the additional information will be returned:

- Whether the consumer has blocked the relevant issuer.

2. Service Parameters –

In order to ensure that organizations using the eFaktura Service easily can find the correct consumers, certain search parameters have been implemented by Nets in the alias lookup method.

- 1) It is possible to use a combination of the available variables that might provide duplicates in return (f.x two consumers living on the same address with the same name). Should this occur, the eFaktura Service will return an error message indicating that another variable should be included in the search as no unique consumer could be found.
- 2) When doing an alias lookup, it is possible to use as many as all the variables available. The eFaktura Service however will only provide an error message stating that one or more of the variables are incorrect if there is no match to one or more of these. Which variable is incorrect will not be described and the search will not return any matches.
 - **Therefore, Nets recommends using as few variables as possible as long as no duplicate errors are returned.**

3. Suggested search combinations

Within the rules defined by Bits, any organization doing alias lookups are free to use whatever search criteria they believe to be most effective. Nets suggest the following order of the search combinations as a guideline:

- 1) If available, use SSN, organizational number or “eFaktura-adresse”.
- 2) Phone number+ Email address
- 3) Name + Phone number
- 4) Email + Phone number
- 5) Birth date + Phone number
- 6) Email + Birth date

*JTTA – Ja-Takk-Til-Alle, eFaktura by default.

*JTTB – Ja-Takk-Til-Begrenset, Consumer who has made reservation against spesific issuers.