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OneGate(CSSR)

Web Services

End User Manual

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Banque Nationale DE BELGIQUE
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Abstract: This document template is to be used for writing the End User Manual for a developed business service or product. It forms part of the System Development Life Cycle (SDLC). There are separate user manuals for operatos/administrators and for developers of the service.

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1. Introduction

This document contains everything you need to automate the data exchange with the application OneGate(CSSR).

This document describes the prerequisites of the usage of the OneGate(CSSR) Web Services, the goal of each one of them, its input, output and possible errors.

Target audience for this document is the external partners who wish to automate the data exchange with the application OneGate(CSSR) using the Web Services.

1.1 Document history

Date	Version	Author	Description of change
19/11/2009	- Draft	PRSM	Initial version
11/02/2010	- Draft	PRSM	Update namespace
05/08/2010	- Draft	PRSM	Correction of some element definition
10/09/2010	2.0	PRSM	New Web Services description

1.2 References

Ref.	Title	Author	Location
[1]	OneGate(CSSR) - End user manual	DQ[1]	French Dutch
[2]	OneGate(CSSR) - End User manual - HTTPS Entrypoints	PRSM[2]	English
[3]	OneGate(CSSR) - XML Protocol	PRSM	[Not available]
[4]	File Exchange Mechanism - S/MIMEv2 Specifications	SYAS[3]	[Not available]
[5]	NBB Certificate policy	DSM[4]	French Dutch
[6]	NBB Certificate Practice Statement for External Counterparties (CPS)	DSM	French Dutch
[7]	Certificate management	DSM	English
[8]	Enrollment procedure v3.2	DSM	[Not available]

[1] DQ:Department General Statistics
[2] PRSM: IT Applications
[3] SYAS: Network & Application Security
[4] DSM: Data Security Management

1.3 Overview of document

This manual is structured as follows:

Section	Title	Main Purpose
1	Introduction	Specifies the document version, lists other, related documents and summarises the contents of this manual
2	Product description and environment	Explains why the product exists, its scope and the scenario analysed
3	Generalities	Describes the generic points about the usage of the Web services.
4	Web services description	Explains how to use the product
5	Error codes	Lists and explains product error codes and associated corrective actions
6	Defininiton of terms and abbreviations	Lists and explains any special terms used in the document.

2. Product features and capabilities

2.1 Product purpose

Today, the need for information grows continuously. Administrative and statistical institutes interview the citizens and companies regularly to collect this information. With the dematerialization, the paper form has given way to electronic form sent via the Internet. The goal of the application One Gate (CSSR) is to become a unique point of data collection and data exchange for the National Bank of Belgium.

The data collection can be done either manually by filling an online form either (semi) automatically by sending a XML file via a manual file upload, a secured email or a web service call. The current document is limited to the description of the fully automated data exchange using the Web Services (drawn in Figure 1 under point 3). You can also fully automated the data exchange using the HTTPS entrypoints instead of the Web Services. The HTTPS entrypoints are described in document [2].

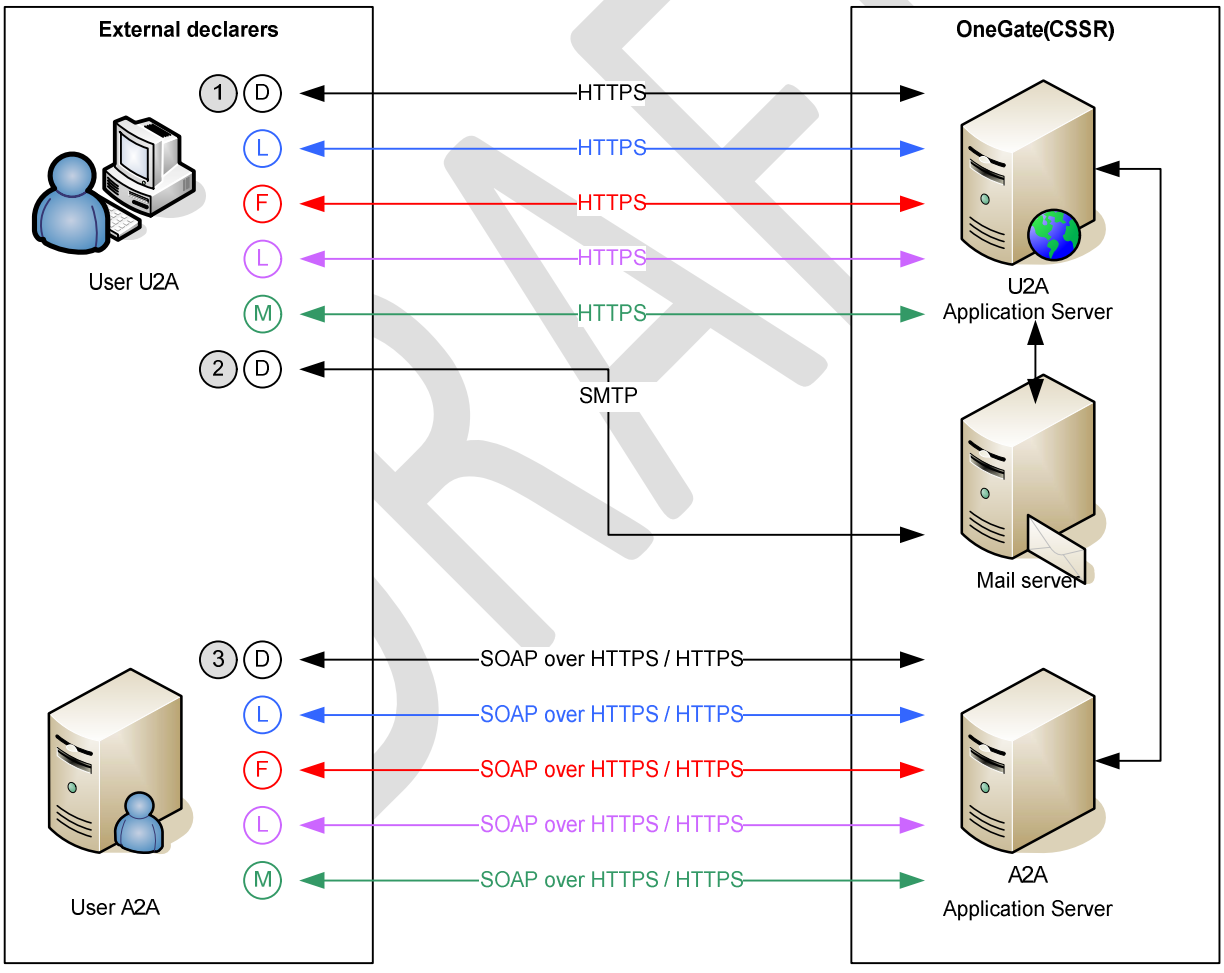


Figure 1 - General overview

2.2 Scope of intended use

OneGate(CSSR) can be used for all business domain where data must be collected via Internet. Only the authorized users can use the OneGate(CSSR) web services.

Once you have done the technical effort to automate the exchange for a certain business domain, you can reuse this implementation for all the other business domain.

2.3 Scenario

For the data collection process, the data exchange with the application OneGate(CSSR) consists of four chronological activities:

- The declarer sends a file containing one declaration report.
- The declarer requests the list of the available feedbacks.
- The declarer requests a specific feedback.
- The declarer submits an HTTPS request with the URL of the different attachments in the specific feedback and the server responds with the content of the attachment.

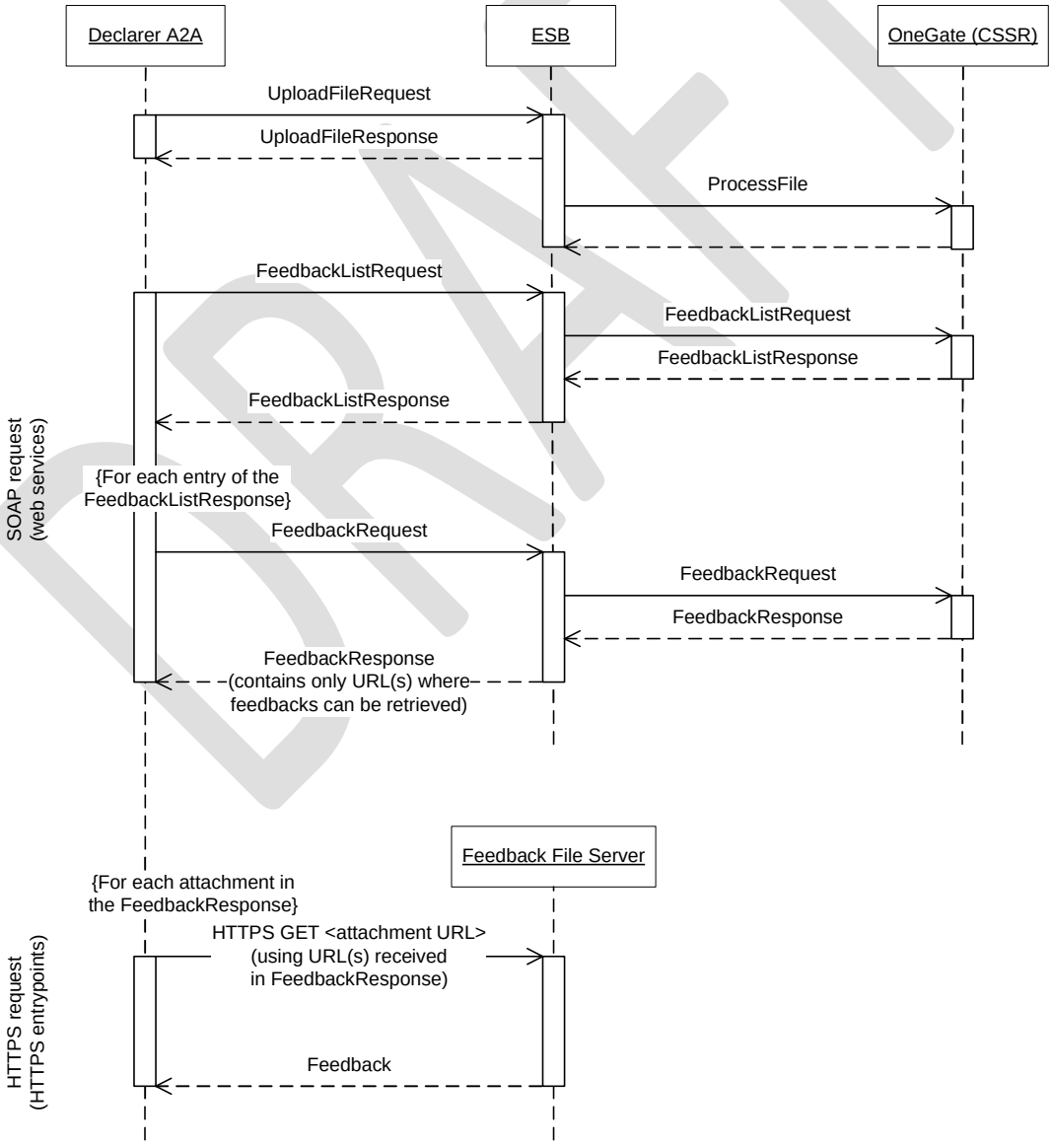


Figure 2 - Scenario of the fully automated data exchange with OneGate(CSSR) for data collection

For the message consultation process, the data exchange with the application OneGate(CSSR) consists of three chronological activities:

- The declarer requests the list of the available messages.
- The declarer requests a specific message.
- The declarer submits an HTTPS request with the URL of the different attachments in the specific message and the server responds with the content of the attachment.

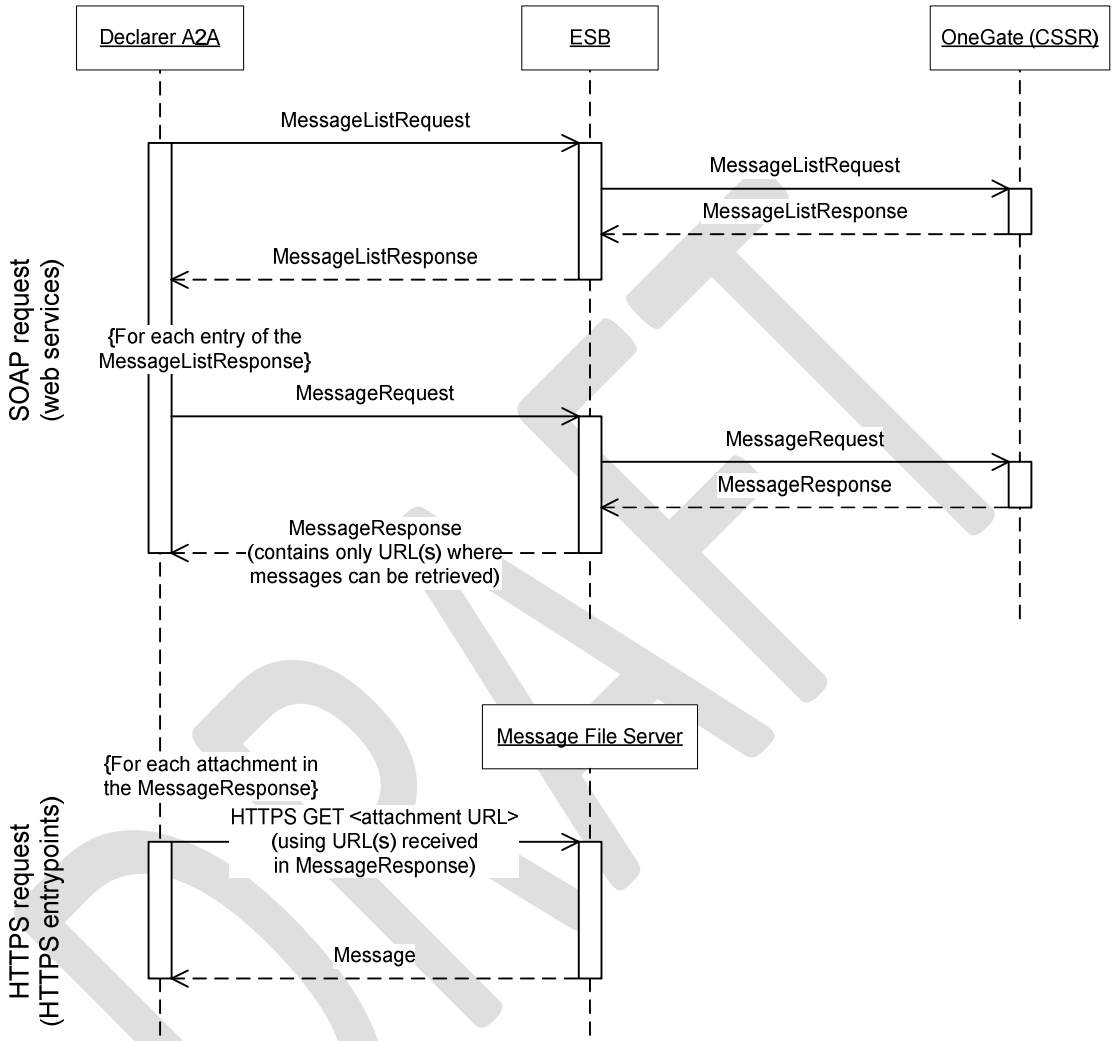


Figure 3 - Scenario of the fully automated data exchange with OneGate(CSSR) for message consultation

The content of the FeedbackResponse/MessageResponse is one (or several) URL(s) where the feedback/message can be retrieved. The feedback/message can be retrieved by using an HTTPS GET request to this URL. This implies that the declarer must work with two different sessions, a SOAP and an HTTPS session, and must authenticate in both sessions.

More detailed information concerning HTTPS request and HTTPS entrypoints can be found in document [2].

3. Generalities

This chapter describes the generalities about the OneGate(CSSR) Web Services: the communication protocol, the authentication, the authorization and the binary data format.

3.1 Interoperability

The W3C defines a Web service as a software system designed to support interoperable machine-to-machine interaction over a network. It has an interface described in a machine-processable format (specifically WSDL). Other systems interact with the Web service in a manner prescribed by its description using SOAP messages, typically conveyed using HTTP with an XML serialization in conjunction with other Web-related standards.[5]

WSDL

The WSDL describing to the Web services is available at the following URL:

URL- WDSL

This WSDL contains the description of the services, their input and output messages as well as the URL where the they are made available.

SOAP

The external systems will interact with the OneGate(CSSR) Web services using SOAP messages over HTTPS (cfr. 3.2 & 3.3). The SOAP message will not contain specific SOAP Header neither in the request nor in the response.

In the SOAP web services world, when a fault occurs due to a client or a server mistake, a SOAP fault is generated. A SOAP fault consists of a fault code, a fault string and optional a detail. The following draws the generic format of the SOAP fault returned in case of a client error and a server error.

Note that in case of authenticate or authorisation error, you will not receive a SOAP fault but an HTTP error code.

Generic format of a client fault

```
<SOAP-ENV:Envelope
 xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xmlns:xsd="http://www.w3.org/2001/XMLSchema">
   <SOAP-ENV:Header/>
   <SOAP-ENV:Body>
      <SOAP-ENV:Fault>
         <faultcode>SOAP-ENV:Client</faultcode>
         <faultstring>Validation error</faultstring>
         <faultactor></faultactor>
         <detail>
            <spring-ws:ValidationError
             xmlns:spring-ws="http://springframework.org/spring-ws">
               cvc-complex-type.2.4.b: The content of element 'tns:FeedbackRequest'
               is not complete. One of '{"http://www.onegate.eu/2010-01-
               01":FeedbackId}' is expected.
            </spring-ws:ValidationError>
         </detail>
```

[5] http://www.w3.org/TR/ws-arch/

```
      </SOAP-ENV:Fault>
   </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Generic format of a server fault

```
<SOAP-ENV:Envelope
 xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xmlns:xsd="http://www.w3.org/2001/XMLSchema">
   <SOAP-ENV:Header/>
   <SOAP-ENV:Body>
      <SOAP-ENV:Fault>
         <faultcode>SOAP-ENV:Server</faultcode>
         <faultstring>
           An internal error occured. Please try again. If problem persist,
           please send the fault detail to the system administrator.
         </faultstring>
         <faultactor></faultactor>
         <detail>No details</detail>
      </SOAP-ENV:Fault>
   </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

3.2 Authentication

The communication protocol used is HTTPS with SSLv3 certificate based authentication. The certificate based authentication means that remote users get authenticated using a X509 certificate.

The application OneGate(CSSR) recognizes the certificate from NBB, Global Sign, Certipost and Isabel. If you never used your certificate to access one of the NBB applications, you need to register your certificate. If you try to consume one of the web services without having registered your certificate before, you will receive an HTTP 401 error code.

You can find more information about the certificate policy and registration in the "OneGate(CSSR) - End user manual" (Ref.[1]) ; and about the NBB certificates in the referred documents [5] to [8].

3.3 Authorization

When your certificate is registered at the NBB, you must request access with this certificate to the application OneGate(CSSR). The authorization process is based on security role. To request the role that will give you access to the application OneGate(CSSR), you need to follow the procedure described in document [1]. Once the authority approved your access request, you will be able to use your certificate to automate the data exchange and have access to the online application.

If you try to consume one of the Web services without having requested access before, you will receive an HTTP 403 error code.

3.4 Secure data

OneGate(CSSR) supports the exchange of secure data. By secure, we means signed data or signed and encrypted data. Depending of the data sensitivity, the business will be required to send the data:

- without additional signing or encryption
- signed: to authenticate the sender and guarantee the data integrity
- signed and encrypted:
    - authenticate the sender and guarantee the data integrity
    - guarantee that only the receiver can read the data

Exchange of signed and/or encrypted files from/to the NBB will occur with files which comply with the S/MIMEv2 standard described in document referenced by [4]. Once the file is signed and/or encrypted, it must be encoded in base 64 to be sent via SOAP.

Certificate

User certificate: read 3.2 Authentication to know which certificate can be used to sign data.
Server certificate: the public key of the server certificate to used to encrypt/sign data is available on the OneGate(CSSR) web site.

3.5 Binary data

The data exchange between the declarer and the application OneGate(CSSR) will be done using different file formats (XML, PDF, Word document, ...) and different levels of security. This regarding, the file will be encoded in base 64 in the SOAP request.

3.6 Volume

The size of the request can not exceed 10 MB. To limit the size of the request, the file can be compressed. If zip is used, the contentType of the attachment will be “application/zip”.

3.7 Useful tools

Before automated the implementation of the Web services, you can easily test it using:

- soapUI (http://www.soapui.org)
  soapUI is a free and open source desktop application for inspecting, invoking, developing Web Services.

- curl (http://curl.haxx.se)
  curl is a command line tool for transferring files with URL syntax, supporting FTP, FTPS, HTTP, HTTPS, SCP, SFTP, TFTP, TELNET, DICT, LDAP, LDAPS and FILE. curl supports SSL certificates, HTTP POST, HTTP PUT, FTP uploading, HTTP form based upload, proxies, cookies, user+password authentication (Basic, Digest, NTLM, Negotiate, kerberos...), file transfer resume, proxy tunneling and a busload of other useful tricks.

4. Web Services description

4.1 Overview

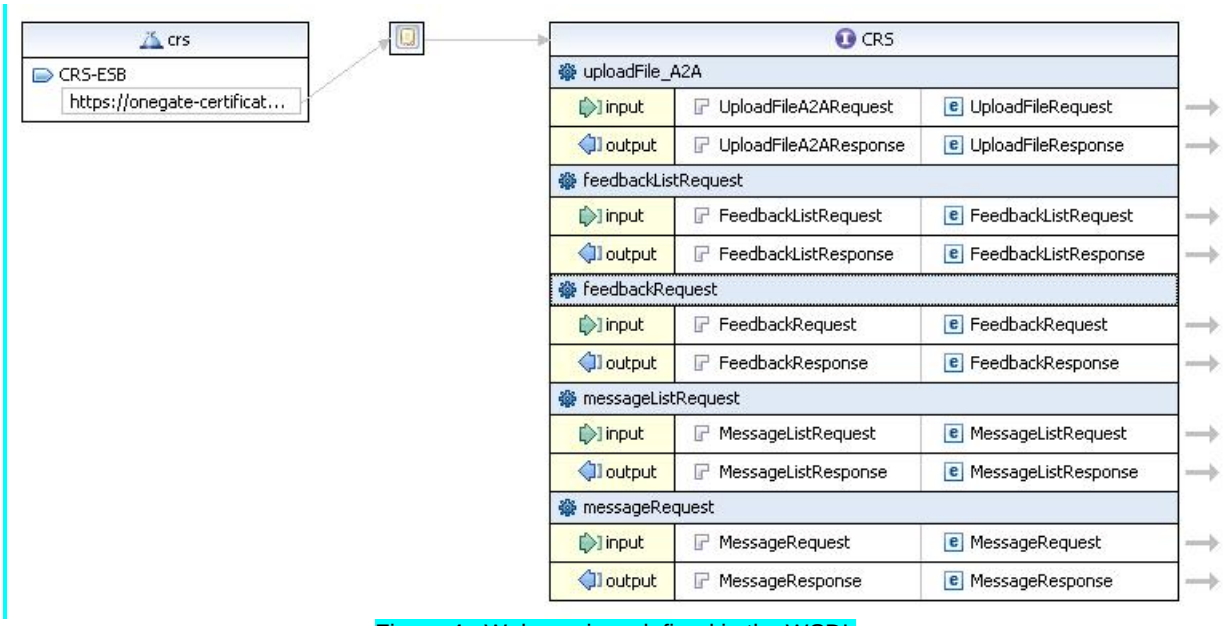


Figure 4 - Web services defined in the WSDL

Figure 4 gives an overview of the web services used by the declarer to fully automate the data exchange with the application OneGate(CSSR). As a reminder, the data exchange consists of sending data and retrieving the associated feedback which contains the result of the validation of the imported data or retrieving the available messages.

4.2 Upload file

4.2.1 Description

The declarer uses the service "Upload file" to send a file with a declaration report to be processed by the application OneGate(CSSR) and receives a ticket in return. This ticket is used as an acknowledgement of the file receipt and will be used to uniquely identify the file transfer. The processing of the file is done asynchronously following the FIFO principle. Due to the asynchronous process, the validation report will not be available immediatly and there is a delay between the file upload and the registration of the file reception in OneGate(CSSR).

Note that the processing of the declaration can be also followed via the online OneGate(CSSR) application using the function "Exchanges > File exchange log".

The sent file contains a declaration report that must follow the data exchange protocol published by the business where the XML schema and the security level will be specified.

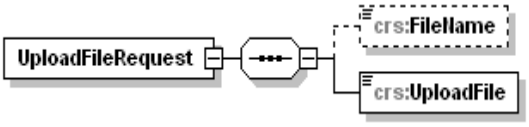
List of the XML protocol supported:

- Declaration Report (cfr. *[3]*) ; all new reporting
- XML protocol of the old CSSR application

Supported security level to apply to the sending file:

- None
- Signed
- Signed and encrypted

4.2.2 Input



UploadFileRequest	
Description	Contains the file with the declaration report to upload to the application OneGate(CSSR)
XML format	ComplexType
Children	FileName UploadFile

FileName	
Description	File name of the upload file
XML format	xs:String whitespace = collapse
Validation	Optional

UploadFile	
Description	File which contains the declaration report
XML format	xs:base64Binary
Validation	Required

More details about the element "UploadFile"

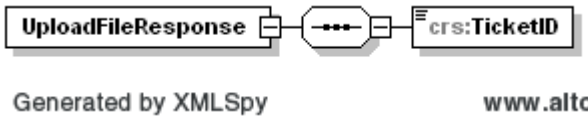
Before being encoded in base 64, the file must fulfil the following requirements:

- The declaration report must be valid against the XML protocol fixed by the business
- Only one file can be uploaded by sending.
- The file can be compressed. In this case, the zip file can contains only one file.
- Following the business requirements, the file must be signed or signed and encrypted.

So to build the value of the element UploadFile, you need to execute the following steps:

- Validate the file against the XML schema ; *optional but recommended*
- Zip file ; *optional but recommended*
- Sign the file with your private key ; *required or not by the business requirement*
- Encrypt the file with the OneGate(CSSR) public key ; *required or not by the business requirement*
- Encode the file in base 64 ; *required*

4.2.3 Output



UploadFileResponse	
Description	Contains the ticket id associated with the file exchange.
XML format	ComplexType
Children	TicketID

TicketID	
Description	Identify the file transfer uniquely. The ticket ID is used as an acknowledgement of the file receipt and will be requested in case of problem by the Service Desk to be able to detect the problem.
XML format	xs:string whiteSpace=collapse
Validation	Required

4.2.4 Error message

Error message	Corrective action
Validation error	The SOAP request is not valid against the message definition. Please consult the validation error details.

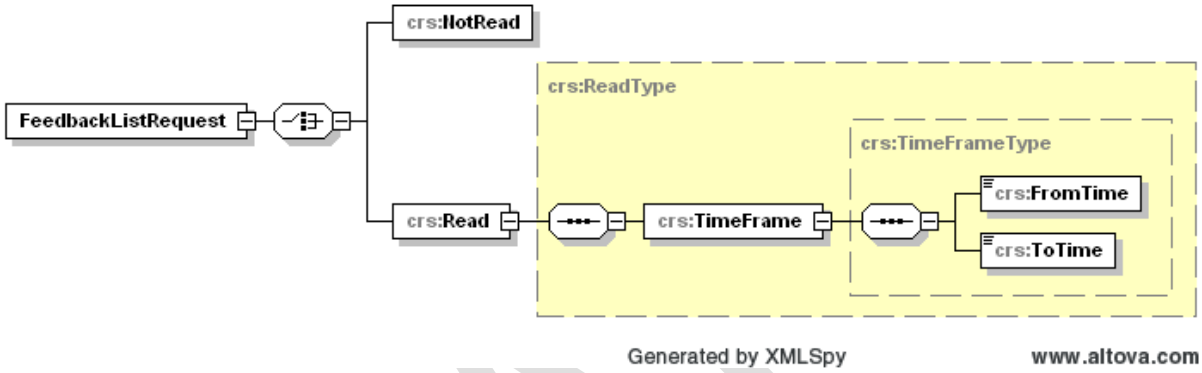
4.3 Request list of available feedback

4.3.1 Description

The service "feedbackListRequest" is used to request the list of feedback identifiers available. Only the identifier of the feedback associated with a file sent with this user will be sent back. The feedback associated with files sent by another user but for a common declarer will not be sent back.

You can choose between requesting a list of either new feedbacks or feedbacks associated to files sent during a specified time frame. The second option offers you the possibility to request feedbacks that have been retrieved earlier.

4.3.2 Input



FeedbackListRequest	
Description	Contains the attributes to request the list of feedback identifier available for the requester.
XML format	ComplexType
Children	NotRead Read

NotRead	
Description	Used to request the identifiers of new feedback.
XML format	ComplexType
Validation	Empty element

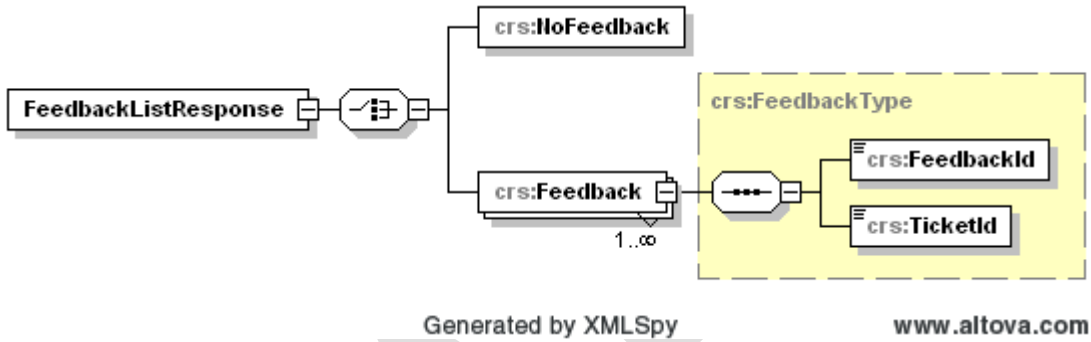
Read	
Description	Used to request the identifiers of feedback requested earlier and associated to files sent during the specified time frame.
XML format	ComplexType
Children	TimeFrame

TimeFrame	
Description	Specified the time frame during which the file has been received by the application OneGate(CSSR).
XML format	ComplexType
Children	FromTime ToTime

FromTime	
Description	Timestamp identifying the start of the time frame.
XML format	xs:dateTime
Validation	Required

ToTime	
Description	Timestamp identifying the end of the time frame.
XML format	xs:dateTime
Validation	Required

4.3.3 Output



FeedbackListResponse	
Description	Contains the list of the available feedback identifiers.
XML format	ComplexType
Children	NoFeedback Feedback

NoFeedback	
Description	No feedback found for the specified search criteria. • Not read: no new feedback • Read: no feedback read during the specified time frame
XML format	ComplexType
Validation	Empty element

Feedback	
Description	Contains the information about the feedback available for download.
XML format	ComplexType Minimum occurence: 1 Maximum occurence: unbounded
Children	FeedbackId TicketId

FeedbackId	
Description	Identifier of the feedback
XML format	xs:nonNegativeInteger. minExclusive: 0
Validation	Required

TicketId	
Description	Identifier of the file transfer to whom the feedback is associated.
XML format	xs:string whiteSpace=collapse, minLength=1, maxLength=20
Validation	Required

4.3.4 Error message

Error message	Corrective action
Validation error	The SOAP request is not valid against the message definition. Please consult the validation error details.
You're not allowed to request this information	You have access to OneGate(CSSR) but not for the requested data. • Check that you use the right URL to access the Web services. • Contact the access manager to request if you have access for the institute NBB and your specific business domain.

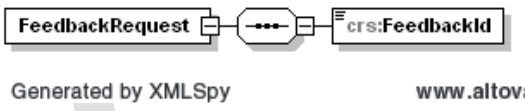
4.4 Request a feedback

4.4.1 Description

The service "feedbackRequest" is used to request a specific feedback by providing its identifier. The format of the feedback must follow the business requirement in terms of format and security level applied.

If the business required that you send your file signed and/or encrypted, the feedback will follow the same requirement and will be signed and/or encrypted.

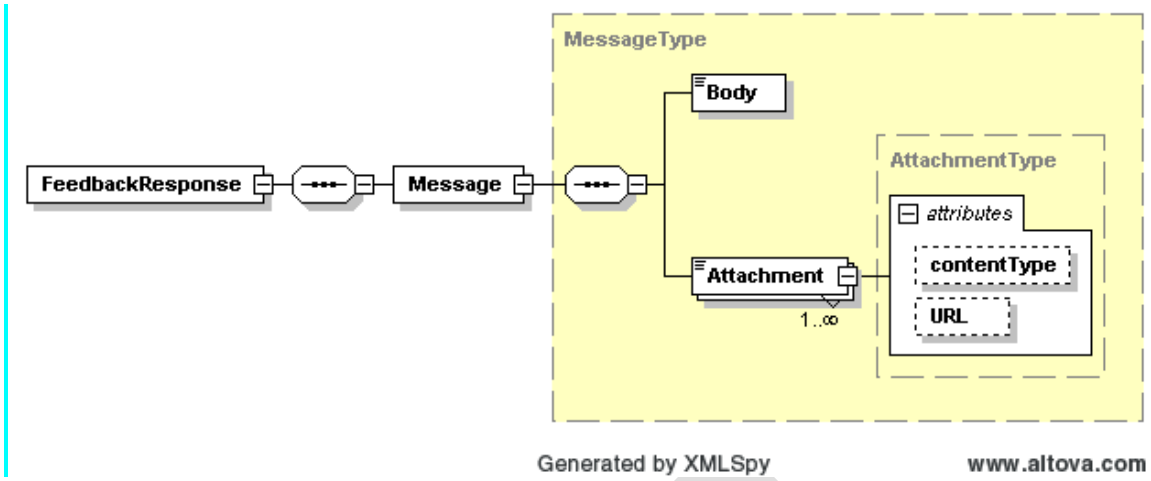
4.4.2 Input



FeedbackRequest	
Description	Contains the information about the requested feedback
XML format	ComplexType
Children	FeedbackId

FeedbackId	
Description	Identifier of the requested feedback
XML format	xs:nonNegativeInteger minExclusive: 0
Validation	Required

4.4.3 Output



FeedbackResponse	
Description	Contains the requested feedback
XML format	ComplexType
Children	Message

Message	
Description	The message is the feedback which contains at least one body or one attachment
XML format	ComplexType
Children	Body Attachment

Body	
Description	Body of the message in plain text. Example: Validation report for ticket number [480]
XML format	xs:string
Validation	Optional

Attachment			
Description	Attachment of the message • @contentType specify the type of the feedback file using the Internet media type. • @URL specify the URL where the feedback can be retrieved using an HTTPS GET request		
XML format	ComplexType		
Attributes	**Name**	**Type**	**Value**
	contentType	xs:string	"text/xml" or "application/zip"
	URL	xs:string	
Validation	Empty element, Optional		

Sample of FeedbackResponse

```
<SOAP-ENV:Envelope
      xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
      xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:esb="http://www.onegate.eu/2010-01-01">
      <SOAP-ENV:Header />
      <SOAP-ENV:Body>
          <esb:FeedbackResponse>
               <esb:Message>
                    <esb:Body>?</esb:Body>
                    <!--1 or more repetitions:-->
                    <esb:Attachment contentType="text/xml"
                    URL="http://someurl.be/dummy=123" />
               </esb:Message>
          </esb:FeedbackResponse>
      </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

4.4.4 Error message

Error message	Corrective action
Validation error	The SOAP request is not valid against the message definition. Please consult the validation error details.
You are not allowed to request this information	You have access to OneGate(CSSR) but not for the requested data. • Check that you use the right URL to access the Web services. • Contact the access manager to request if you have access for the institute NBB and your specific business domain. • The feedback is linked to a file uploaded with another user id.
Message with id <FeedbackId> not found	Check if you have take the element "FeedbackId" from the FeedbackListResponse and not the "TicketId".

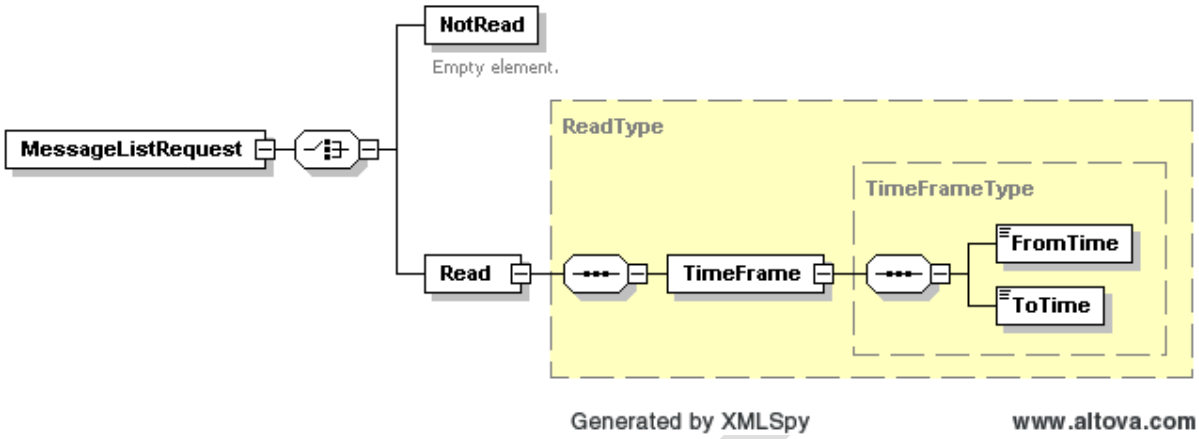
4.5 Request list of available messages

4.5.1 Description

The service "messageListRequest" is used to request the list of message identifiers available. Only the identifier of the message destinated to this user will be sent back. The message associated with the userId of another user but for a common declarer will not be sent back.

You can choose between requesting a list of either new messages or messages already consulted during a specified time frame. The second option offers you the possibility to request messages that have been retrieved earlier.

4.5.2 Input



MessageListRequest	
Description	Contains the attributes to request the list of message identifier available for the requester.
XML format	ComplexType
Children	NotRead Read

NotRead	
Description	Used to request the identifiers of new message.
XML format	ComplexType
Validation	Empty element

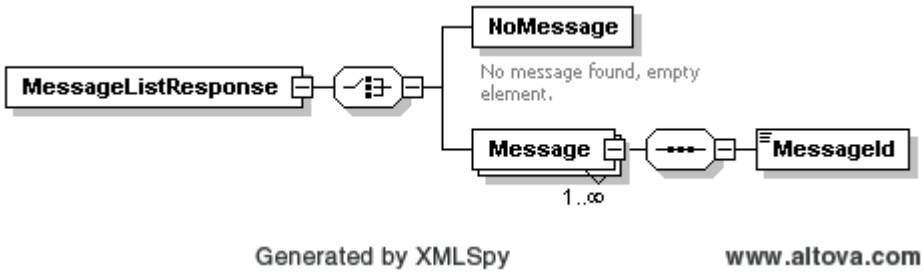
Read	
Description	Used to request the identifiers of message requested earlier during the specified time frame.
XML format	ComplexType
Children	TimeFrame

TimeFrame	
Description	Specified the time frame during which the message has been retrieved the first time.
XML format	ComplexType
Children	FromTime ToTime

FromTime	
Description	Timestamp identifying the start of the time frame.
XML format	xs:dateTime
Validation	Required

ToTime	
Description	Timestamp identifying the end of the time frame.
XML format	xs:dateTime
Validation	Required

4.5.3 Output



MessageListResponse	
Description	Contains the list of the available message identifiers.
XML format	ComplexType
Children	NoMessage Message

NoMessage	
Description	No message found for the specified search criteria. • Not read: no new message • Read: no message read during the specified time frame
XML format	ComplexType
Validation	Empty element

Message	
Description	Contains the information about the message available for download.
XML format	ComplexType Minimum occurence: 1 Maximum occurence: unbounded
Children	MessageId

MessageId	
Description	Identifier of the message
XML format	xs:nonNegativeInteger. minExclusive: 0
Validation	Required

4.5.4 Error message

Error message	Corrective action
Validation error	The SOAP request is not valid against the message definition. Please consult the validation error details.
You're not allowed to request this information	You have access to OneGate(CSSR) but not for the requested data. • Check that you use the right URL to access the Web services. • Contact the access manager to request if you have access for the institute NBB and your specific business domain.

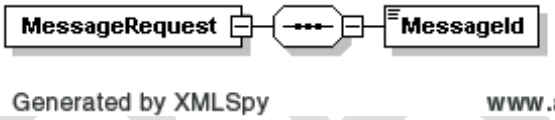
4.6 Request a message

4.6.1 Description

The service "messageRequest" is used to request a specific message by providing its identifier. The format of the message must follow the business requirement in terms of format and security level applied.

If the business required that you send your file signed and/or encrypted, the message will follow the same requirement and will be signed and/or encrypted.

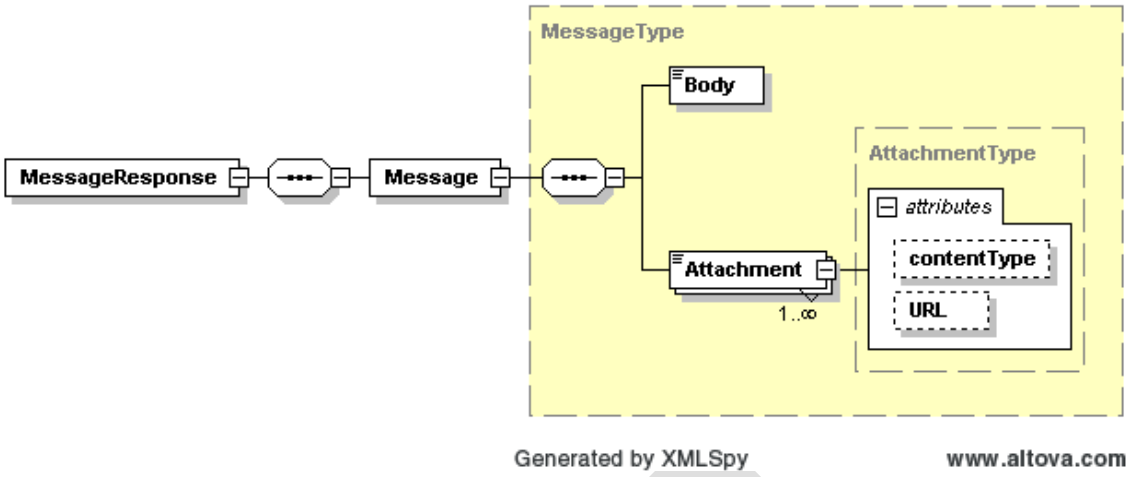
4.6.2 Input



MessageRequest	
Description	Contains the information about the requested message
XML format	ComplexType
Children	MessageId

MessageId	
Description	Identifier of the requested message
XML format	xs:nonNegativeInteger minExclusive: 0
Validation	Required

4.6.3 Output



MessageResponse	
Description	Contains the requested message
XML format	ComplexType
Children	Message

Message	
Description	The message contains at least one body or one attachment
XML format	ComplexType
Children	Body Attachment

Body	
Description	Body of the message in plain text. Example: Message [142].
XML format	xs:string
Validation	Optional

Attachment			
Description	Attachment of the message • @contentType specify the type of the message using the Internet media type. • @URL specify the URL where the message can be retrieved using an HTTPS GET request.		
XML format	ComplexType		
Attributes	**Name**	**Type**	**Values**
	contentType	xs:string	“text/xml”, “application/zip”, “application/pdf”, “application/vnd.ms-excel”, …
	URL	xs:string	
Validation	Empty element, Optional		

4.6.4 Error message

Error message	Corrective action
Validation error	The SOAP request is not valid against the message definition. Please consult the validation error details.
You are not allowed to request this information	You have access to OneGate(CSSR) but not for the requested data. • Check that you use the right URL to access the Web services. • Contact the access manager to request if you have access for the institute NBB and your specific business domain. • The message is linked to another user id.

5. Error codes

5.1 HTTP Error code

For an exhaustive list of the HTTP error codes, please refer to the protocol specifications.

When I send my request, I received an HTTP 403.
Different problems can cause this error code:

1. The user certificate is required
   No certificate found in your request
2. Client certificate untrusted or invalid
   You need to register your certificate or a new one.
3. Client certificate has expired or is not yet valid
   You need to request a new certificate and restart the registration procedure
4. The request exceeds the max allowed content length
   Your request exceeds the max size specified in Volume.

You can find information about the certificate registration here.

5.2 SOAP Fault

5.2.1 Server

If a server error occured, you receive a SOAP Fault where the fault code specifies that a problem occurs on the server. In this case, please retry to send your request and if the problem persists, please contact the NBB IT Servicedesk (+ 32 2 221 40 60 ; servicedesk@nbb.be).

5.2.2 Client

If your request contains an error, you receive a SOAP Fault where the fault code specifies that a problem occured at the client side. In this case, please correct your request before send it again.

Please refer to each section "Error message" in chapter Web Services description where the client error are listed by Web service.

6. Definition of terms and abbreviations

Abbreviation	Description
A2A	Application to Application ; refers to the interaction between two applications.
Acknowledgment of file receipt	This acknowledgment of file receipt indicates that a file was received, that the file transfer is recorded under a identification number (TickeId). This acknowledgment does not contain any information about the validity of the document.
Feedback OneGate(CSSR)	Feedback OneGate is the validation report generated automatically by OneGate(CSSR) when the sending file is processed. The feedback format is fixed (XML following the protocol used for the FeedbackReport).
Feedback Back-Office	The feedback back-officeis a report generated manually or automatically by the specific business application that will exploit the data collected via OneGate(CSSR). This report can contain information related to a second level of validation of the reported data or other types of information such as complementary question or various information. The file format of the business report is free (HTML, xls, doc, PDF,…)
FIFO	First In First Out can be translated as "First-come, First-served". This expression describes the principle of a queue processing where what comes in first is handled first, what comes in next waits until the first is finished before being handled.
Internet Media Type	An Internet Media Type, originally called “MIME type” or “Content-type”, is a two-part identifier for file formats no the Internet. A media type is composed of at least two parts: a type, a subtype and one or more optional parameters (e.g. “image/png”).
HTTPS	Hypertext Transfer Protocol Secure is a combination of the Hypertext Transfer Protocol with the SSL/TLS protocol to provide encryption and secure identification of the server.
NBB	National Bank of Belgium
SOAP	Simple Object Access Protocol SOAP is a lightweight protocol intended for exchanging structured information in a decentralized, distributed environment. It uses XML technologies to define an extensible messaging framework providing a message construct that can be exchanged over a variety of underlying protocols. The framework has been designed to be independent of any particular programming model and other implementation specific semantics. (Definition from http://www.w3.org/TR/soap/)
SSL	Secure Socket Layer are cryptographic protocols that provide security for communications over networks such as the Internet.
U2A	User to Application ; refers to the interaction between an user and an application.
Web Service	A Web service is a software system designed to support interoperable machine-to-machine interaction over a network. It has an interface described in a machine-processable format (specifically WSDL). Other systems interact with the Web service in a manner prescribed by its description using SOAP messages, typically conveyed using HTTP with an XML serialization in conjunction with other Web-related standards. (Definition issue from the W3C)
WSDL	Web Services Definition Language WSDL is an XML-based language for describing Web services and how to access them.