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Service Specification:

Integration and use of the service

EboxMessage
Version 1.9 *(Validated Document)*

into an external application

To the attention of: "IT expert" aiming to integrate this Service

TABLE OF CONTENTS

1. GOAL OF THE SERVICE

Service that allows partners from the Social Security sector to send messages to the e-Box of enterprises, professionals or citizens. It also allows to verify the existence and activity of an e-Box Enterprise.

1.1 E-BOX, FROM THE POINT OF VIEW OF INSTITUTIONS – APPLICATIONS

e-Box allows institutions of **Belgian** Social Security to publish messages of different types for the attention of companies, professionals or citizens. The e-Box system provides a secured Web Service called WS EBoxMessage. This electronic channel is available for the Belgian Social Security Institutions, in order to communicate official documents to companies, professionals or citizens.

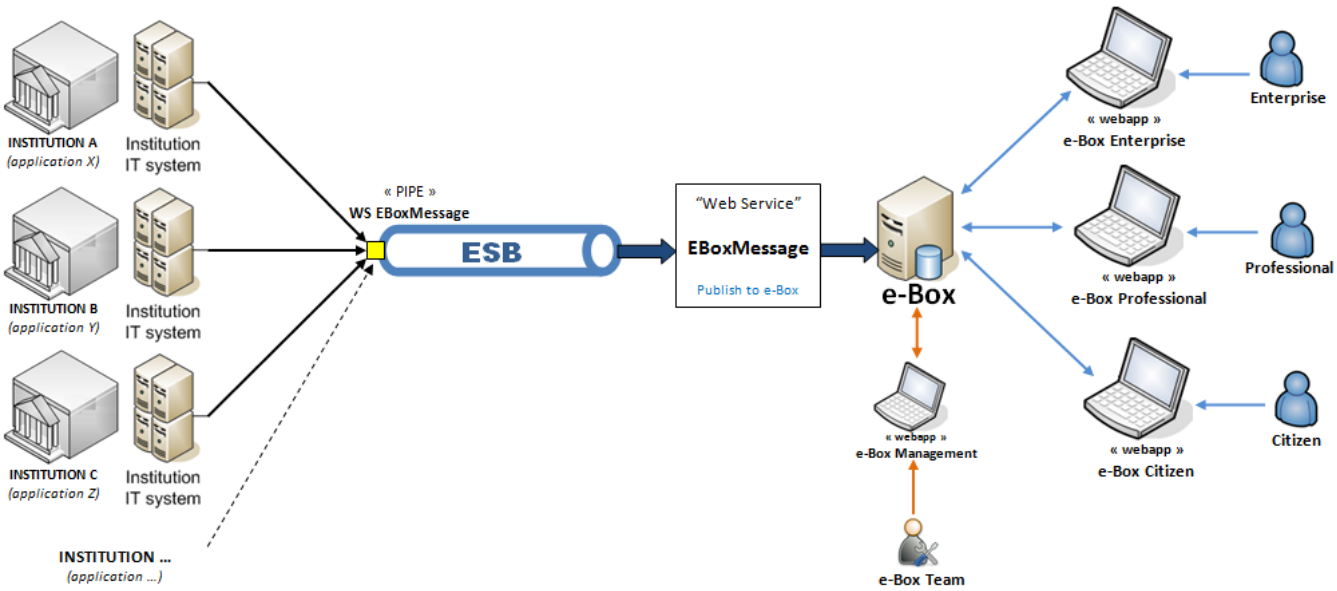


Figure 1 - WS EBoxMessage: overview

1.2 E-BOX FOR ENTERPRISES, PROFESSIONALS, CITIZENS

e-Box is an electronic box, secured and centralized, available as a web application. This protected space is reserved and guaranteed by the Social Security Institutions, for Enterprises, Professionals and Citizens.

- **e-Box Enterprise:** an e-Box is available for each enterprise registered on the Social Security Portal (authentic source = User Management Enterprise, NSSO sector). An e-Box exists for each "quality" [1] defined for the registered enterprises.
- *More info*: https://info.eboxenterprise.be/
- **e-Box Professional "Institution":** an e-Box is available for each institution registered in the authentic source "User Management Professional" (CBSS sector). An e-Box exists for each "quality" [2] defined for the registered institutions. **e-Box Professional "Personal":** each civil servant of Belgian Social Security (each user registered below a professional quality in the "User Management Professional") has access to a personal e-Box.
- *More info:* https://www.socialsecurity.be/site_fr/civilservant/Applics/epp/index.htm

· **eBox Citizen:** an eBox is available for each citizen in Belgium.

More info: https://mycitizenebox.belgium.be/myebox/

[1] A quality is a business characteristic of an organisation. Example of quality for a company: *Employeur ONSS/ Werkgever RSZ; Employeur ONSS-APL / Werkgever RSZPPO; Secrétariat Social Agréé/ erkende sociale secretariaat;Prestataire de service / dienstverrichter; …*

[2] A "professional" quality is a business characteristic of an institution. Example of "professional" quality: *Service Administratif de l'institution../ Administratieve dienst…; Service Sécurité de l'institution… / Veiligheidsdienst…; Administration communale / Gemeente bestuur; Action sociale (CPAS)/ Maatschappelijk Welzijn (OCMW)…*

2. DOCUMENT MANAGEMENT

2.1 DOCUMENT GOAL

This document provides functional and technical information on calling EboxMessage, as provided by the National Social Security Office (NSSO). This information should allow (the IT department of) an organization to integrate and use the service.

In this service specification document, we explain the structure and content aspects of the possible service requests and replies. An example illustrates each of those messages. Also, the list of possible errors is included in this document.

Some technical and legal requirements must be satisfied in order to allow the integration of the services in client applications; this document was written in order to provide you with an overview of requirements which have to be met in order to integrate correctly with the Services offered by National Social Security Office (NSSO).

2.2 DOCUMENT HISTORY

Version	Date	Author	Description of changes / remarks
0.1	27/09/2011	A. Moulart	First version
0.2	21/09/2012	A. Moulart	New operations for broadcast publication
0.3	1/07/2014	A. Moulart	New operation "hasAnEbox"
0.4	18/03/2015	D. Thomas / P. Fustin	First version of this documentation generated based on WSDL/XSD version 1.4
0.5	23/06/2015	V. Adam / A. Clerbaut	Version of this documentation generated based on a new WSDL/XSD version 1.4
0.6	28/07/2015	V. Adam / A. Clerbaut	Version of this documentation generated based on a new WSDL/XSD version 1.5
0.7	9/11/2015	V. Adam / A. Clerbaut	Version of this documentation generated based on a new WSDL/XSD version 1.5
0.8	11/05/2016	V. Adam / A. Moulart	Version of this documentation generated based on a new WSDL/XSD version 1.6
0.9	23/09/2016	V. Adam / A. Moulart	Version of this documentation generated based on a new WSDL/XSD version 1.7
1.0	19/09/2017	V. Adam / A. Moulart	Version of this documentation generated based on a new WSDL/XSD version 1.8

1.1	07/10/2019	V. Adam / C. T. D. Pham	Update with newest version of eBox and remove deprecated links and screens

3. SERVICE HISTORY

This chapter contains the list of changes to the service since the previous publication.

Remark: If only the minor(y) number has changed, the service is backward compatible with the previous version. Existing consumers with no need to use the new functionality do not have to change their implementation.

Previous release date (production): 23/11/2016

Previous version number (production): 1.7

List of changes:

05/07/2012 version 1.0: First version

16/08/2012 version 1.1: support URN as application ID

26/03/2013 version 1.2: support of certificates not dedicated to a single application

12/06/2014 version 1.3:

Add "recipient validation" in operation "publish EboxMessage"

Operation "hasAnEbox" added

24/06/2015 version 1.4:

Operation getMessageStatus added

EntityId modified with a choice (added) and SubentityId addedin this choice

==> - GetEboxInfo Request/Response impacted

- HasAnEbox Request/Response impacted

28/07/2015 version.1.5:

simpleType name="SubentityId" regular expression changed

==> - GetEboxInfoRequest/Response impacted

- GetMessageStatusRequest/Response impacted

- HasAnEboxRequest/Response impacted

Operation healthCheck added

11/05/2016 version 1.6:

name="IsRegistered" added

IsRegistered: to identify if the message is a registered one or not

==> - PublishEboxMessageRequest impacted

9/08/2016 version 1.7:

name="ExclusivelyEbox**"** added

==> HasAnEboxResponse impacted

19/09/2017 version 1.8:

Suppression of qualities for enterprises using e-box for their own use. So far, these enterprises had potentially an e-box *per quality*, so that both "enterprise ID" and "quality" were required to identify an e-box in the mentioned below requests/responses. From now on, these enterprises will have at most one e-box, so that the quality becomes useless to identify an e-box.

The adaptations support the new situation, so that the reference to the quality is not required anymore. In practice, the tag “QualityCode” with one of the qualities "QUAL_EMP_NOSS", "QUAL_EMP_NOSSPLA", "QUAL_COMPANY" might be substituted by the new tag “EboxType” with the value “ENTERPRISE”. Both requests, with and without quality, can be used, with the very same results.

==> - GetEboxInfoRequest/Response impacted

- GetMessageStatusRequest/Response impacted

- HasAnEboxRequest/Response impacted

- LinkEboxMessageRequest/Response impacted

- PublishEboxMessageRequest impacted

09/09/2019 version 1.9:

On SOAP level, there is no new version. New Federated version of eBox to be able to connect all DocProvider, DocSender and DocConsumer.

We have added some business error codes like the contrrol on target audience

4. PREREQUISITES

4.1 BUSINESS PREREQUISITES

Access to the service is granted as defined in the "Unique Dossier". This "Unique Dossier" centralizes all required information to authorize a new online application in accordance with the legal provisions on information security and data protection.

When an institution wants to publish a new kind of message to e-Box, the message type must be defined with e-Box GA/TB (eBoxIntegration@smals.be) by means of an **identification form**.

Here are the steps an institution must follow to publish for the first time to e-Box.

1) Gather information about e-Box, contact the e-Box Team and organize a meeting if necessary (via eBoxIntegration@smals.be

2) Complete the e-Box form.With e-Box Enterprise for Sender Enterprise

https://info.eboxenterprise.be/fr/documents/word/e-Box_Entreprise_FicheDemandeEnvoi_FR.docx

https://info.eboxenterprise.be/nl/documenten/word/e-Box_Enterprise_Aanvraagfiche_NL.docx

With BCSS link for Citizen

https://www.ksz-bcss.fgov.be/sites/default/files/assets/services_et_support/fiche_demande_envoi_ebox_citoyen_fr.doc

https://www.ksz-bcss.fgov.be/sites/default/files/assets/diensten_en_support/fiche_demande_envoi_ebox_citoyen_nl.doc

3) validation of the e-Box form (via eBoxIntegration@smals.be

4) After formal validation, integrate the WS, order the x.509 certificate

5) Test (Integration, Acceptance). Give approval.

6) Publish to e-Box (Production)

Some operations (*getEboxInfo, storeEboxMessage, linkEboxMessage, commitLinkEboxMessage*) appear in the WSDL but are restricted for internal use. These operations are not documented in this Service Specification Guide.

Each e-Box message is coupled to a **message type**.

A message type is associated with some essential pieces of information:

- "Application – institution" couple(s) that is (are) authorized to publish messages of this type.
- Validity period for messages of this type (the message is deleted from e-Box after its validity period has elapsed).
- Metadata linked to this message type (optional or mandatory + their format). Metadata can be used to add structured information about the message (for example: a NSSO number; a quarter date; a request date; etc.). Metadata can be used as search criteria among messages of a same type.
- Additional information about message updates; category…

4.2 TECHNICAL PREREQUISITES

4.2.1 Security

The service has a single endpoint:

* be/socialsecurity/eboxmessage/v1/EboxMessage_v1.wsdl [X.509 Token Profile]

Duplicated WSDL files with explicit policy names

* be/socialsecurity/eboxmessage/v1/EboxMessage-X509_v1.wsdl [X.509 Token Profile]

A SOAP request to the WS EboxMessage must be signed by means of a QuoVadis X.509 certificate. The WS EboxMessage identifies the message sender on the basis of this certificate. This certificate identifies the institution and the application.

X509 **QuoVadis**	**Value**	**Comment**
C	BE	-
O	*Organization name*	*The legal name of your organization.Example:* O = SMALS
OU	**Belgian Federal Government**	-
OU	OU=urn:be:fgov:kbo-bce:organization:cbe-number:${CBE}	*Example for institution with CBE 12345676890 this OU must be* OU=urn:be:fgov:kbo-bce:organization:cbe-number:1234567890
OU	*Environment*	Possibles values {PRD, SIM, ACC, INT, TST, DEV, SIC, LOCAL, OTHER}. *Example:* OU = ACC
CN	*Application identifier*	*Example for application werkkaart/carte de travail (RVA/Onem), CN must be* CN=employment:job-attest:werkkaart
L	*Locality (City)*	*The city where your organization is located. Example:* L = Sint-Gillis
S	*State (County/Region)*	*The state/region where your organization is located. This shouldn't be abbreviated. Example:* S = Brussel-Hoofdstad

Remark:

You need a distinct certificate for each work environment (Acceptance, Production).
• The type of certificate requested must be a non-public trust (applicative) certificate. o Trusted CA: QuoVadis Trust Anchor Issuing CA G2;
• The order for a new certificate must be made via info.be@quovadisglobal.com o The mail must be sent in Dutch or English

5. DESCRIPTION OF THE SERVICE OPERATIONS

The service consists of following operations :

Operations	Description
commitLinkEboxMessage	Commit the link between a message and an e-Box (Internal use only)
getEboxInfo	Get information needed for a notification (Internal use only)
getMessageStatus	Check if a message has been readed or downloaded
hasAnEbox	Verify if an e-Box exist and get the last connection date
healthCheck	Request the service to execute a healthcheck. Three levels of monitoring: PING, DEFAULT and DEEP.
linkEboxMessage	Link a message with an e-Box (Internal use only)
publishEboxMessage	Send a message to an e-Box
storeEboxMessage	Store a message in e-Box (Internal use only)

5.1 OPERATION COMMITLINKEBOXMESSAGE

5.1.1 Request message construction

Request of a CommitLinkEboxMessage: commit all link for the StoredEboxMessageID

sequence

<> [0..1] **SenderID** (SenderID)

<> **StoredEboxMessageID** (string)

5.1.1.1 Example

This paragraph is intentionally left blank.

5.1.2 Reply message interpretation

Response of a CommitLinkEboxMessageRequest

sequence

<> **StoredEboxMessageID** (string)

5.1.2.1 Example

This paragraph is intentionally left blank.

5.1.3 Error codes

This paragraph is intentionally left blank.

5.2 OPERATION GETEBOXINFO

5.2.1 Request message construction

Request of a GetEboxInfo: for an e-Box list of a same quality.

sequence

<> [1..2000] **EboxID** (EntityID)

<> **QualityCode** (QualityCode)

5.2.1.1 Example

This paragraph is intentionally left blank.

5.2.2 Reply message interpretation

Response of a GetEboxInfo: for an e-Box list of a same quality.

sequence

<> [0..2000] **EboxInfo** (EboxInfo)

<> [0..2000] **ErrorCase** (EntityID)

<> **QualityCode** (QualityCode)

5.2.2.1 Example

This paragraph is intentionally left blank.

5.2.3 Error codes

This paragraph is intentionally left blank.

5.3 OPERATION GETMESSAGESTATUS

5.3.1 Request message construction

Request to know if a message has been readed or downloaded

sequence

<> [1..250] **Message** (GetMessageStatusType)

choice

<> [1..1] **QualityCode** (QualityCode)

<> [1..1] **EboxType** (EboxType)

5.3.1.1 Example

Minimal version of a message : 1 document

```
<v1:GetMessageStatusRequest>
        <v11:QualityCode>CITIZEN</v11:QualityCode>
        <!--1 to 250 repetitions:-->
        <v11:Message>
                <v11:EboxID>
                        <v11:INSS>12345678901</v11:INSS>
                </v11:EboxID>
                <v11:MessageID>
                        <v11:Ticket>2015-04-23-003</v11:Ticket>
                        <v11:Sequence>001</v11:Sequence>
                </v11:MessageID>
        </v11:Message>
</v1:GetMessageStatusRequest>
```

5.3.2 Reply message interpretation

Response to know if a message has been readed or downloaded

sequence

<> [0..250] **ErrorCase** (GetMessageStatusErrorType)

<> [0..250] **Message** (GetMessageStatusResponseType)

<> **QualityCode** (QualityCode)

5.3.2.1 Example

```
<ns5:GetMessageStatusResponse xmlns:ns2="http://socialsecurity.be/eboxmessage/types/v1"
xmlns:ns3="http://socialsecurity.be/errors/v1" xmlns:ns4="http://socialsecurity.be/errors/serviceprovider/v1"
xmlns:ns5="http://socialsecurity.be/eboxmessage/v1">
        <ns2:QualityCode>CITIZEN</ns2:QualityCode>
        <ns2:Message>
                <ns2:EboxID>
                        <ns2:INSS>81041430930</ns2:INSS>
                </ns2:EboxID>
                <ns2:MessageID>
                        <ns2:Ticket>welcDocCit20141210</ns2:Ticket>
                        <ns2:Sequence>1</ns2:Sequence>
                </ns2:MessageID>
                <ns2:HasBeenConsulted>false</ns2:HasBeenConsulted>
        </ns2:Message>
</ns5:GetMessageStatusResponse>
```

5.3.3 Error codes

See § 8.2 "Business Error Codes"

5.4 OPERATION HASANEBOX

Check if an e-Box exists (and if the e-Box is already used, get the last connection date, in order to know if this e-Box is really used).

5.4.1 Request message construction

Identification of a (list of) e-Box, for a same quality code. For each e-Box: entity value (ex: CompanyID or INSS).

Request to know if an e-Box exist.

sequence

<> [1..1000] **EboxID** (EntityID)

choice

<> [1..1] **QualityCode** (QualityCode)

<> [1..1] **EboxType** (EboxType)

5.4.1.1 Example

Minimal version of a request

```
<v1:HasAnEboxRequest>
    <v11:QualityCode>QUAL_EMP_NOSS</v11:QualityCode>
    <!--1 to 1000 repetitions:-->
    <v11:EboxID>
        <v11:CompanyID>0207148052</v11:CompanyID>
    </v11:EboxID>
</v1:HasAnEboxRequest>
```

Version with several companies

```
<v1:HasAnEboxRequest>
    <v11:QualityCode>QUAL_EMP_NOSS</v11:QualityCode>
    <!--1 to 1000 repetitions:-->
    <v11:EboxID>
        <v11:CompanyID>9995555999</v11:CompanyID>
    </v11:EboxID>
    <v11:EboxID>
        <v11:CompanyID>9995555998</v11:CompanyID>
    </v11:EboxID>
    <v11:EboxID>
        <v11:CompanyID>9995555997</v11:CompanyID>
    </v11:EboxID>
</v1:HasAnEboxRequest>
```

5.4.2 Reply message interpretation

For each e-Box: available(Y/N)? If e-Box already used, date of last connection*.

*: Only for e-Box Enterprise (since new version of the webapplication in July 2014).

Response to know if an e-Box exist.

sequence

<> [1..1000] **Ebox** (HasAnEboxResponseType)

choice

<> [1..1] **QualityCode** (QualityCode)

<> [1..1] **EboxType** (EboxType)

5.4.2.1 Example

Response for 1 ebox

```
<ns5:HasAnEboxResponse xmlns:ns2="http://socialsecurity.be/eboxmessage/types/v1"
xmlns:ns3="http://socialsecurity.be/errors/v1" xmlns:ns4="http://socialsecurity.be/errors/serviceprovider/v1"
xmlns:ns5="http://socialsecurity.be/eboxmessage/v1">
    <ns2:QualityCode>QUAL_EMP_NOSS</ns2:QualityCode>
    <ns2:Ebox>
        <ns2:Ebox>
            <ns2:CompanyID>0207148052</ns2:CompanyID>
        </ns2:Ebox>
        <ns2:Exists>false</ns2:Exists>
    </ns2:Ebox>
</ns5:HasAnEboxResponse>
```

Response for more than one ebox

```
<ns5:HasAnEboxResponse xmlns:ns2="http://socialsecurity.be/eboxmessage/types/v1"
xmlns:ns3="http://socialsecurity.be/errors/v1" xmlns:ns4="http://socialsecurity.be/errors/serviceprovider/v1"
xmlns:ns5="http://socialsecurity.be/eboxmessage/v1">
    <ns2:QualityCode>QUAL_EMP_NOSS</ns2:QualityCode>
    <ns2:Ebox>
        <ns2:Ebox>
            <ns2:CompanyID>9995555999</ns2:CompanyID>
        </ns2:Ebox>
        <ns2:Exists>true</ns2:Exists>
        <ns2:LastConnectionDate>2015-04-07+02:00</ns2:LastConnectionDate>
        <ns2:ExclusivelyEbox>false</ns2:ExclusivelyEbox>
    </ns2:Ebox>
    <ns2:Ebox>
        <ns2:Ebox>
            <ns2:CompanyID>9995555998</ns2:CompanyID>
        </ns2:Ebox>
        <ns2:Exists>true</ns2:Exists>
        <ns2:LastConnectionDate>2015-04-03+02:00</ns2:LastConnectionDate>
        <ns2:ExclusivelyEbox>true</ns2:ExclusivelyEbox>
    </ns2:Ebox>
    <ns2:Ebox>
        <ns2:Ebox>
            <ns2:CompanyID>9995555997</ns2:CompanyID>
        </ns2:Ebox>
        <ns2:Exists>false</ns2:Exists>
    </ns2:Ebox>
</ns5:HasAnEboxResponse>
```

5.4.3 Error codes

See § 8.2 "Business Error Codes"

5.5 OPERATION HEALTHCHECK

5.5.1 Request message construction

<> **type** (HealthCheckType)

5.5.1.1 Example

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mon="http://services.fgov.be/monitoring/v1">
  <soapenv:Header/>
  <soapenv:Body>
    <mon:HealthCheckRequest type="PING"/>
  </soapenv:Body>
</soapenv:Envelope>
```

5.5.2 Reply message interpretation

sequence

<> **Component** (Component)

<> **Location** (Location)

<> [0..*] **SanityCheck** (SanityCheck)

<> **Status** (Status)

<> **timestamp** (dateTime)

5.5.2.1 Example

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
        <S:Body>
                <ns5:HealthCheckResponse xmlns:ns2="http://socialsecurity.be/eboxmessage/types/v1"
xmlns:ns3="http://socialsecurity.be/errors/serviceprovider/v1" xmlns:ns4="http://socialsecurity.be/errors/v1"
xmlns:ns5="http://services.fgov.be/monitoring/v1" xmlns:ns6="http://socialsecurity.be/eboxmessage/v1">
                        <ns5:Status>
                                <ns5:Level>OK</ns5:Level>
                        </ns5:Status>
                        <ns5:Component>
                                <ns5:Name>eBox message : 8. Web Service</ns5:Name>
                                <ns5:Version>6.3.3</ns5:Version>
                                <ns5:MavenReference artifactId="ebox-message-ws" groupId="be.smals.ebox"/>
                                <ns5:CatalogPart>Application Ebox Message Webservice</ns5:CatalogPart>
                        </ns5:Component>
                        <ns5:Location>
                                <ns5:Environment>ACC</ns5:Environment>
                                <ns5:Host>laextapp209a.extranetdc.be</ns5:Host>
```

<ns5:Port>10110</ns5:Port>
<ns5:URL>http://laextapp209a.extranetdc.be:10110/app009ws/EBoxMessage/v1/EboxMessageService</ns5:URL>
</ns5:Location>
</ns5:HealthCheckResponse>
</S:Body>
</S:Envelope>

5.5.3 Error codes

Not applicable

5.6 OPERATION LINKEBOXMESSAGE

5.6.1 Request message construction

Complex Type defining a LinkEboxMessageRequest

sequence

<> [1..1000] **RecipientID** (RecipientID)

<> [0..1] **SenderID** (SenderID)

<> **StoredEboxMessageID** (string)

5.6.1.1 Example

This paragraph is intentionally left blank.

5.6.2 Reply message interpretation

Complex Type defining a LinkEboxMessageRequest

sequence

<> **MessageID** (string)

<> **NbrOfSuccessfulLinks** ()

<> [0..1000] **RecipientError** (RecipientID)

5.6.2.1 Example

This paragraph is intentionally left blank.

5.6.3 Error codes

This paragraph is intentionally left blank.

5.7 OPERATION PUBLISHEBOXMESSAGE

The publishEboxMessage operation is used to publish a new message to e-Box.

Different types of e-Box exist (cf. 1.1).

In the request, a “Quality Code” must be given in the “Recipient” tag. That will automatically correspond to an e-Box type. See also § 8 Annex for the list of commons quality codes.

The recipient’s validation is now checked for this operation at the ESB level. That means that a publish request with an invalid recipient (example: the Enterprise doesn’t exist) will generate a business error with the code ‘90’ (‘Invalid Recipient’). See also § 7.2 for the complete list of the potential business error codes.

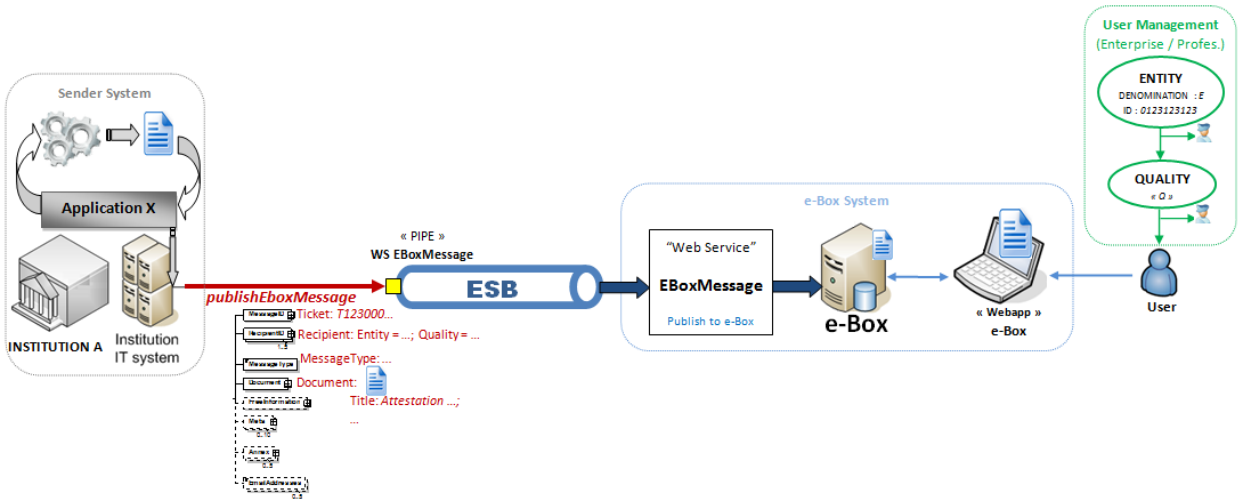


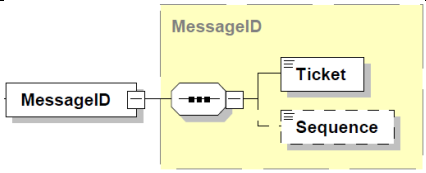
Figure 2 - Operation publishEboxMessage: overview

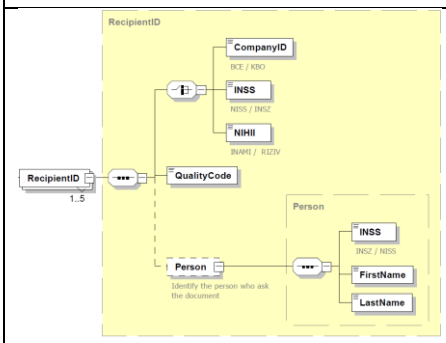
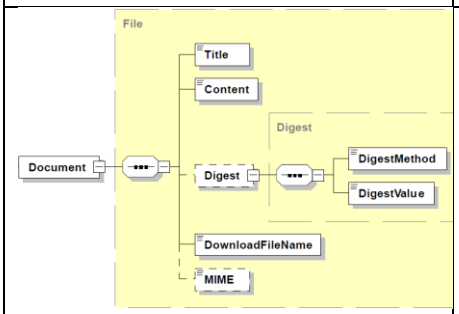
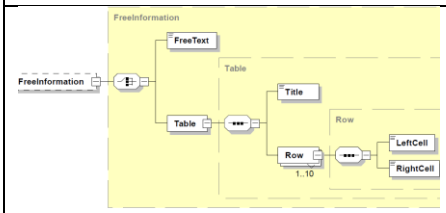
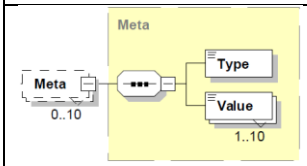
This message contains of course the document that will be published in the recipient’s e-Box, but it is coupled with different pieces of information: *message’s ticket (id), type of message, document’s title, document’s “download file name”, optional free information, metadata or annex…*

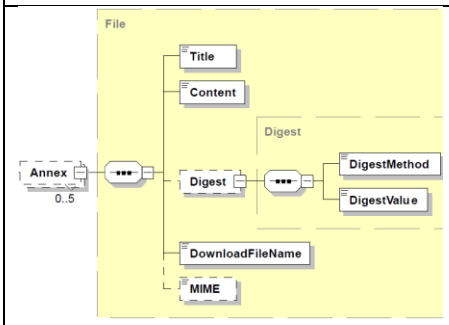
Screenshots of the e-Box web application help the reader to understand how input parameters are used and handled to integrate/show a document in the e-Box. The e-Box’s interfaces are similar between e-Box Enterprise and e-Box Professional. eBox Citizen’s interface looks different, and therefore, some elements that could be provided in a request are not supported with eBox Citizen.

Two request messages (a minimal version and a more detailed one) are explained into details.

5.7.1 Request message construction

PublishEboxMessageRequest	**Explanations:**
	**MessageID (cf. complexType: MessageID)** **Ticket:** functional identifier of the message. Most often, the ticket has a business meaning for the application that sends the message (for example, the reference of a declaration).

	Sequence [optional]: The sequence number is used to publish different versions of a message having the same ticket number. For example, it is possible to have 3 messages with ticket "12345678", and sequence "1"; "2" and "3" for each version of the message. Sending a message with an already used ticket/sequence combo will replace the existing message.
	**RecipientID** [1..5] **(cf. complexType: RecipientID)** A RecipientID defines an "Entity/Quality couple" that identifies the e-Box where the message will be published. **CompanyID** or **INSS** or **NIHII:** entity id of the recipient, according to the entity type, respectively, an organization (enterprise or institution), an individual (for example a Citizen) or a provider of health care. **QualityCode:** quality code linked to the given entity. The quality code depends of the "e-Box type". **Person [***optional; only for "e-Box Enterprise" and "e-Box Professional Institution".***]:** a person who is a target recipient among the different users of the specified e-Box.
	**MessageType:** identifies the type of the message. A message type is defined with eBoxIntegration@smals.be when an institution wants to publish a new sort of message to e-Box (by means of an identification form). Each message type is associated to an institution, a sender application, a validity period, some security checks, and possible metadata.
	**Document (cf. complexType: File)** Document that will be publish in the specified e-Box. A document has a Title, a Content and a DownloadFileName (with its file extension). A Digest and the MIME-type could be provided.
	**FreeInformation:** free information in the form of a free text or a table. On the "details page" of the message, the table or the free text is displayed on the top right side of the page (cf. print-screens just below). ***DEPRECATED*** *(only exploited in e-Box Professional)*
	**Meta (cf. complexType: Meta)** Metadata are used to add more structured information about a message. Metadata are defined for a "message type", and can be optional or mandatory. In e-Box, metadata can be used as search criteria. ***NOT USED IN EBOX CITIZEN***

	**Annex:** it is possible to add 1 to 5 annexes in a message. An annex has the same type that a document. In e-Box, a title is followed by a *paper clip*symbol in order to indicate that some annexes are joined in this message. The “details page” of a message allows a user to consult or download the annexes (cf. print-screen just below). ***NOT USED IN EBOX CITIZEN***
	**EmailAddresses:** Mail addresses that the sender could add (optional) – max. 5 mail addresses. e-Box sends a notification mail to these addresses in order to indicate that there is a new incoming message in the e-Box of the recipient (not used for eBox Citizen). ***NOT USED IN EBOX CITIZEN***
	**isRegistered**: (optional) Boolean used to indicate that the document will be published in the specified e-Box as a registered mail. ***! internal use only !*** This flag can only be used by a MandateSender (as defined in the Dossier Unique of the WS EBoxMessage). Currently reserved for e-Box and ePost (WS RegisteredMail).

Complex Type defining an PublishEboxMessageRequest

sequence

<> [0..5] **Annex** (File)

NOT SUPPORTED FOR EBOX CITIZEN

<> **Document** (File)

<> [0..5] **EmailAddresses** (Email)

DEPRECATED

<> [0..1] **FreeInformation** (FreeInformation)

DEPRECATED - NOT SUPPORTED FOR EBOX CITIZEN

<> [0..1] **IsRegistered** (boolean)

IsRegistered: to identify if the message is a registered one or not (delivered by ePost or not)

<> **MessageID** (MessageID)

<> **MessageType** (MessageType)

<> [0..10] **Meta** (Meta)

NOT SUPPORTED FOR EBOX CITIZEN

<> [1..5] **RecipientID** (RecipientID)

<> [0..1] **SenderID** (SenderID)

5.7.1.1 Example

Minimal version of a message with QualityCode:

```
<PublishEboxMessageRequest
xsi:schemaLocation="http://socialsecurity.be/eboxmessage/v1 EboxMessage_v1.xsd"
xmlns="http://socialsecurity.be/eboxmessage/v1"
xmlns:types="http://socialsecurity.be/eboxmessage/types/v1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
        <types:MessageID>
                <types:Ticket>testWSebox2012</types:Ticket>
        </types:MessageID>
        <types:RecipientID>
                <types:CompanyID>0123456789</types:CompanyID>
                <types:QualityCode>QUAL_EMP_NOSS</types:QualityCode>
        </types:RecipientID>
        <types:MessageType>DIMONA1</types:MessageType>
        <types:Document>
                <types:Title>titre</types:Title>
                <types:Content>cid:534484181045</types:Content>
                <types:DownloadFileName>test.pdf</types:DownloadFileName>
        </types:Document>
</PublishEboxMessageRequest>
```

Minimal version of a message with EboxType (in place of QualityCode):

```
<PublishEboxMessageRequest
xsi:schemaLocation="http://socialsecurity.be/eboxmessage/v1 EboxMessage_v1.xsd"
xmlns="http://socialsecurity.be/eboxmessage/v1"
xmlns:types="http://socialsecurity.be/eboxmessage/types/v1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
        <types:MessageID>
                <types:Ticket>testWSebox2012</types:Ticket>
        </types:MessageID>
        <types:RecipientID>
                <types:CompanyID>0123456789</types:CompanyID>
                <types:EboxType>ENTERPRISE</types:EboxType>
        </types:RecipientID>
        <types:MessageType>DIMONA1</types:MessageType>
        <types:Document>
                <types:Title>titre</types:Title>
                <types:Content>cid:534484181045</types:Content>
                <types:DownloadFileName>test.pdf</types:DownloadFileName>
        </types:Document>
</PublishEboxMessageRequest>
```

Message request with 2 recipients, 2 metas and 3 annexes:

```
<v1:PublishEboxMessageRequest>
        <v11:MessageID>
                <v11:Ticket>12345678</v11:Ticket>
                <v11:Sequence>2</v11:Sequence>
        </v11:MessageID>
        <v11:RecipientID>
                <v11:INSS>999999999999</v11:INSS>
                <v11:QualityCode>PROFESSIONAL</v11:QualityCode>
        </v11:RecipientID>
```

```
        <v11:RecipientID>
                <v11:CompanyID>1234567890</v11:CompanyID>
                <v11:QualityCode>QUAL_EMP_NOSS</v11:QualityCode>
                <v11:Person>
                        <v11:INSS>999999999999</v11:INSS>
                        <v11:FirstName>Francois</v11:FirstName>
                        <v11:LastName>Full</v11:LastName>
                </v11:Person>
        </v11:RecipientID>
        <v11:RecipientID>
                <v11:CompanyID>1234567890</v11:CompanyID>
                <v11:QualityCode>QUAL_SP_LEG</v11:QualityCode>
        </v11:RecipientID>
        <v11:MessageType>DocWIDE</v11:MessageType>
        <v11:Document>
                <v11:Title>document de test pour ebox</v11:Title>
                <v11:Content>cid:534484181045</v11:Content>
                <v11:Digest>
                        <v11:DigestMethod>SHA-256</v11:DigestMethod>
                        <v11:DigestValue>YTONFS1mEb7N01hNH6S3KMsIS5mm4/rf+cgkiuhloys=</v11:DigestValue>
                </v11:Digest>
                <v11:DownloadFileName>document.pdf</v11:DownloadFileName>
                <v11:MIME>application/pdf</v11:MIME>
        </v11:Document>
        <v11:Meta>
                <v11:Type>BENOSS</v11:Type>
                <v11:Value>0987654321</v11:Value>
                <v11:Value>1234567890</v11:Value>
        </v11:Meta>
        <v11:Meta>
                <v11:Type>RequestDate</v11:Type>
                <v11:Value>2012-03-12</v11:Value>
        </v11:Meta>
        <v11:Annex>
                <v11:Title>title first Annex</v11:Title>
                <v11:Content>cid:534484181045</v11:Content>
                <v11:Digest>
                        <v11:DigestMethod>SHA-256</v11:DigestMethod>
                        <v11:DigestValue>YTONFS1mEb7N01hNH6S3KMsIS5mm4/rf+cgkiuhloys=</v11:DigestValue>
                </v11:Digest>
                <v11:DownloadFileName>ANNEXE01.pdf</v11:DownloadFileName>
                <v11:MIME>application/pdf</v11:MIME>
        </v11:Annex>
        <v11:Annex>
                <v11:Title>title annex 2</v11:Title>
                <v11:Content>cid:524157812819</v11:Content>
                <v11:DownloadFileName>annex2.csv</v11:DownloadFileName>
                <v11:MIME>text/csv</v11:MIME>
        </v11:Annex>
        <v11:Annex>
                <v11:Title>Annex 3 Title</v11:Title>
                <v11:Content>cid:524157812819</v11:Content>
                <v11:DownloadFileName>annex3.csv</v11:DownloadFileName>
                <v11:MIME>text/csv</v11:MIME>
        </v11:Annex>
</v1:PublishEboxMessageRequest>
```

5.7.2 Reply message interpretation

Response of a PublishEboxMessageRequest

sequence

<> **ID** (string)

5.7.2.1 Example

```
<PublishEboxMessageResponse>
        <ID>035000373APHZ</ID>
</PublishEboxMessageResponse>
```

Explanation:

This ID is a technical message ID. This message ID can be used to search the message in e-Box, for example in order to check the publication.

This kind of answer means that the message will be treated. If an error occurs at the WS level, an error code is returned (cf. §7 *Common error codes).*

5.7.3 Error codes

See § 8.2 "Business Error Codes"

5.8 OPERATION STOREEBOXMESSAGE

5.8.1 Request message construction

Complex Type defining a StoreEboxMessageRequest

sequence

<> [0..5] **Annex** (File)

<> **Document** (File)

<> [0..1] **FreeInformation** (FreeInformation)

<> **MessageID** (MessageID)

<> **MessageType** (MessageType)

<> [0..10] **Meta** (Meta)

<> [0..1] **SenderID** (SenderID)

5.8.1.1 Example

This paragraph is intentionally left blank.

5.8.2 Reply message interpretation

Response of a StoreEboxMessageResponse

sequence
<> **ID** (string)

5.8.2.1 Example
This paragraph is intentionally left blank.

5.8.3 Error codes

This paragraph is intentionally left blank.

6. COMMON TYPES

6.1 EBOXMESSAGE_TYPES_V1

Namespace: **http://socialsecurity.be/eboxmessage/types/v1**

Version: **1.8**

6.1.1 Application

«XSDsimpleType»

type	string		
facets	**kind**	**value**	**annotation**
	derivation	restriction	
	maxLength	150	
	minLength	1	
annotation	Identify the application that produces the document.		

6.1.2 CBE

«XSDsimpleType»

type	string		
facets	**kind**	**value**	**annotation**
	derivation	restriction	
	pattern	[0-9]{10}	
annotation	BCE - KBO		

6.1.3 CommitLinkEboxMessageRequest

«XSDcomplexType»

Request of a CommitLinkEboxMessage: commit all link for the StoredEboxMessageID

sequence

<> [0..1] **SenderID** (SenderID)

<> **StoredEboxMessageID** (string)

6.1.4 CommitLinkEboxMessageResponse

«XSDcomplexType»

Response of a CommitLinkEboxMessageRequest

sequence

<> **StoredEboxMessageID** (string)

6.1.5 Denomination

«XSDcomplexType»

Denomination in NL, FR, DE

sequence

<> **DenominationDE** (DenominationValue)

<> **DenominationFR** (DenominationValue)

<> **DenominationNL** (DenominationValue)

6.1.6 DenominationValue

«XSDsimpleType»

type	string		
facets	**kind**	**value**	**annotation**
	derivation	restriction	
	maxLength	200	
annotation	Denomination of an Entity or a Subdivision. limited to 200 char		

6.1.7 Digest

«XSDcomplexType»

Binary content of a document

sequence

<> **DigestMethod** (DigestMethod)

<> **DigestValue** (DigestValue)

6.1.8 DigestMethod

«Enumeration»

facets	value	annotation
	SHA-1	SHA-1 will be deprecated as of January 1st, 2018
	SHA-256	
	SHA-512	
annotation	Digest Algorithm (SHA-1 deprecated, SHA-256, SHA-512).	

6.1.9 DigestValue

«XSDsimpleType»

type	base64Binary		
facets	**kind**	**value**	**annotation**
	derivation	restriction	
	maxLength	150	
	minLength	1	
annotation	Value of digest		

6.1.10 EboxEntity

«XSDcomplexType»

Identify the e-Box where the message is published.

sequence

choice

<> [1..1] **QualityCode** (QualityCode)

<> [1..1] **EboxType** (EboxType)

choice

<> [1..1] **INSS** (INSS)

NISS / INSZ

<> [1..1] **NIHII** (NIHII)

INAMI / RIZIV

sequence

<> [1..1] **CompanyID** (CBE)

BCE / KBO

<> [0..1] **SubentityId** (SubentityId)

6.1.11 EboxInfo

«XSDcomplexType»

Info about an e-Box: Entity ID, Entity Name, Email Address, Language

sequence

<> **EmailAddress** (Email)

<> **EntityID** (EntityID)

<> **EntityName** (Denomination)

<> **Language** (Language)

6.1.12 EboxType

«Enumeration»

facets	value	annotation
	ENTERPRISE	
	CITIZEN	
annotation	EboxType. Ex : ENTERPRISE, CITIZEN	

6.1.13 Email

«XSDsimpleType»

type	string		
facets	**kind**	**value**	**annotation**
	derivation	restriction	
	maxLength	80	
	pattern	[A-Za-z0-9._%\-]+@[A-Za-z0-9.\-]+\.[A-Za-z]{2,4}	
annotation	email adress		

6.1.14 EntityID

«XSDcomplexType»

Identify the Entity. An Entity can be an Entreprise, an Institution, a Professional of Social Security, or a Citizen.

sequence

choice

<> [1..1] **INSS** (INSS)

NISS / INSZ

<> [1..1] **NIHII** (NIHII)

INAMI / RIZIV

sequence

<> [1..1] **CompanyID** (CBE)

BCE / KBO

<> [0..1] **SubentityId** (SubentityId)

6.1.15 ErrorStatusCode

«Enumeration»

facets	**value**	**annotation**
	NOT_AUTHORIZED	
	NOT_FOUND	
	MULTIPLE_RESULTS_SPECIFY_SEQUENCE	
annotation	Error Code	

6.1.16 File

«XSDcomplexType»

A file must have a title, a content and a "name" to download file, and save it on disk. Mime is optional

sequence

<> **Content** (swaRef)

<> [0..1] **Digest** (Digest)

<> **DownloadFileName** (FileName)

<> [0..1] **MIME** (MIME)

<> **Title** (Title)

6.1.17 FileName

«XSDsimpleType»

type	string		
facets	**kind**	**value**	**annotation**
	derivation	restriction	
	maxLength	80	
	minLength	1	
annotation	Name to download the file.		

6.1.18 FreeInformation

«XSDcomplexType»

Free additional information.

choice

<> **FreeText** (FreeText)

<> **Table** (Table)

6.1.19 FreeText

«XSDsimpleType»

type	string

facets	kind	value	annotation
	derivation	restriction	
	maxLength	5000	
	minLength	1	
annotation	Free text. Can be html or simple text.		

6.1.20 GetEboxInfoRequest

«XSDcomplexType»

Request of a GetEboxInfo: for an e-Box list of a same quality.

sequence

<> [1..2000] **EboxID** (EntityID)

choice

<> [1..1] **QualityCode** (QualityCode)

<> [1..1] **EboxType** (EboxType)

6.1.21 GetEboxInfoResponse

«XSDcomplexType»

Response of a GetEboxInfo: for an e-Box list of a same quality.

sequence

<> [0..2000] **EboxInfo** (EboxInfo)

<> [0..2000] **ErrorCase** (EntityID)

choice

<> [1..1] **QualityCode** (QualityCode)

<> [1..1] **EboxType** (EboxType)

6.1.22 GetMessageStatusErrorType

«XSDcomplexType»

Request to know if a message has been readed or downloaded

sequence

<> **EboxID** (EntityID)

<> **ErrorCode** (ErrorStatusCode)

<> **MessageID** (MessageID)

6.1.23 GetMessageStatusResponse

«XSDcomplexType»

Response to know if a message has been readed or downloaded

sequence

<> [0..250] **ErrorCase** (GetMessageStatusErrorType)

<> [0..250] **Message** (GetMessageStatusResponseType)

choice

<> [1..1] **QualityCode** (QualityCode)

<> [1..1] **EboxType** (EboxType)

6.1.24 GetMessageStatusResponseType

«XSDcomplexType»

Response to know if a message is readed or downloaded

sequence

<> **EboxID** (EntityID)

<> **HasBeenConsulted** (boolean)

<> **MessageID** (MessageID)

6.1.25 GetMessageStatusType

«XSDcomplexType»

Request to know if a message has been readed or downloaded

sequence

<> **EboxID** (EntityID)

<> **MessageID** (MessageID)

6.1.26 HasAnEboxResponseType

«XSDcomplexType»

Response to know if an e-Box exist.

sequence

<> **Ebox** (EntityID)

<> [0..1] **ExclusivelyEbox** (boolean)

If true, e-Box has been chosen as exclusive channel by the user (Do not send paper copy anymore).

<> **Exists** (boolean)

<> [0..1] **LastConnectionDate** (date)

6.1.27 INSS

«XSDsimpleType»

type	string		
facets	**kind**	**value**	**annotation**
	derivation	restriction	
	pattern	[0-9]{11}	
annotation	NISS - INSZ		

6.1.28 Language

«Enumeration»

facets	value	annotation
	FR	
	NL	
	DE	
	BI	
annotation	Language code	

6.1.29 LeftCell

«XSDsimpleType»

type	string		
facets	kind	value	annotation
	derivation	restriction	
	maxLength	50	
	minLength	1	
annotation	Left cell of a table row		

6.1.30 LinkEboxMessageRequest

«XSDcomplexType»

Complex Type defining a LinkEboxMessageRequest

sequence

<> [1..1000] **RecipientID** (RecipientID)

<> [0..1] **SenderID** (SenderID)

<> **StoredEboxMessageID** (string)

6.1.31 LinkEboxMessageResponse

«XSDcomplexType»

Complex Type defining a LinkEboxMessageRequest

sequence

<> **MessageID** (string)

<> **NbrOfSuccessfulLinks** ()

<> [0..1000] **RecipientError** (RecipientID)

6.1.32 MessageID

«XSDcomplexType»

ID of the message.

sequence

<> [0..1] **Sequence** (Sequence)

<> **Ticket** (Ticket)

6.1.33 MessageType

«XSDsimpleType»

type	string		
facets	**kind**	**value**	**annotation**
	derivation	restriction	
	maxLength	80	
	minLength	6	
annotation	Type of document.		

6.1.34 Meta

«XSDcomplexType»

Meta data.

sequence

<> **Type** (ShortString)

<> [1..10] **Value** (ShortString)

6.1.35 MIME

«Enumeration»

facets	value	annotation
	application/pdf	
	application/zip	
	text/csv	
	text/html	
	text/plain	
	text/xml	
	application/vnd.oasis.opendocument.text	
	application/vnd.oasis.opendocument.spreadsheet	
	application/vnd.oasis.opendocument.presentation	
	application/vnd.oasis.opendocument.graphics	
	application/vnd.ms-excel	
	application/vnd.openxmlformats-officedocument.spreadsheetml.sheet	
	application/vnd.ms-powerpoint	
	application/msword	
	application/vnd.openxmlformats-officedocument.wordprocessingml.document	
annotation	MIME supported by e-Box.	

6.1.36 Name

«XSDsimpleType»

type	string		
facets	**kind**	**value**	**annotation**
	derivation	restriction	
	maxLength	100	
	minLength	1	
annotation	Name limited to 100 char		

6.1.37 NIHII - deprecated

«XSDsimpleType»

type	string		
facets	**kind**	**value**	**annotation**
	derivation	restriction	
	pattern	[0-9]{8}	
annotation	INAMI - RIZIV		

6.1.38 Person

«XSDcomplexType»

Identify a person in an e-Box.

sequence

<> **FirstName** (Name)

<> **INSS** (INSS)

INSZ / NISS

<> **LastName** (Name)

6.1.39 PublishEboxMessageRequest

«XSDcomplexType»

Complex Type defining an PublishEboxMessageRequest

sequence

<> [0..5] **Annex** (File)

NOT SUPPORTED FOR EBOX CITIZEN

<> **Document** (File)

<> [0..5] **EmailAddresses** (Email)

DEPRECATED

<> [0..1] **FreeInformation** (FreeInformation)

DEPRECATED - NOT SUPPORTED FOR EBOX CITIZEN

<> [0..1] **IsRegistered** (boolean)

IsRegistered: to identify if the message is a registered one or not (delivered by ePost or not)

<> **MessageID** (MessageID)

<> **MessageType** (MessageType)

<> [0..10] **Meta** (Meta)

NOT SUPPORTED FOR EBOX CITIZEN

<> [1..5] **RecipientID** (RecipientID)

<> [0..1] **SenderID** (SenderID)

6.1.40 QualityCode

«XSDsimpleType»

type	string		
facets	**kind**	**value**	**annotation**
	derivation	restriction	
	maxLength	125	
	minLength	1	
annotation	Quality code from the userManagement of social security. Ex : QUAL_EMP_NOSS, QUAL_SSC, QUAL_SP_IND, ...		

6.1.41 RecipientID

«XSDcomplexType»

Identify the recipient of the message. The recipient can be an Enterprise, an Institution, a Professional of Social Security or a Citizen.

sequence

<> [0..1] **Person** (Person)

Identify the person who ask the document

choice

<> [1..1] **QualityCode** (QualityCode)

<> [1..1] **EboxType** (EboxType)

choice

<> [1..1] **INSS** (INSS)

NISS / INSZ

<> [1..1] **NIHII** (NIHII)

INAMI / RIZIV

sequence

<> [1..1] **CompanyID** (CBE)

BCE / KBO

<> [0..1] **SubentityId** (SubentityId)

6.1.42 RightCell

«XSDsimpleType»

type	string		
facets	**kind**	**value**	**annotation**
	derivation	restriction	
	maxLength	150	
	minLength	1	
annotation	Righ cell of a table row		

6.1.43 Row

«XSDcomplexType»

Row of a table.

sequence

<> **LeftCell** (LeftCell)

<> **RightCell** (RightCell)

6.1.44 SenderID

«XSDcomplexType»

Identify the application and the institution who send the message.

sequence

<> **Application** (Application)

Identity of application.

<> **Institution** (CBE)

CBE of institution

6.1.45 Sequence

«XSDsimpleType»

type	integer		
facets	**kind**	**value**	**annotation**
	derivation	restriction	
	maxInclusive	99999	
	minInclusive	0	
annotation	Additional Number to publish many different document with the same Ticket.		

6.1.46 ShortString

«XSDsimpleType»

type	string		
facets	**kind**	**value**	**annotation**
	derivation	restriction	
	maxLength	25	
	minLength	1	
annotation	Short string limited to 25 char		

6.1.47 ShortTitle

«XSDsimpleType»

type	string		
facets	**kind**	**value**	**annotation**
	derivation	restriction	
	maxLength	50	
	minLength	1	
annotation	Title of table. Limited to 25 char		

6.1.48 SubentityId

«XSDsimpleType»

type	string		
facets	**kind**	**value**	**annotation**
	derivation	restriction	
	maxLength	50	
	pattern	[A-Za-z0-9]+	
annotation	Sub entity id		

6.1.49 Table

«XSDcomplexType»

Table like html table to display some free value. This table has only 2 column and max 10 row.

sequence

<> [1..10] **Row** (Row)

<> **Title** (ShortTitle)

6.1.50 Ticket

«XSDsimpleType»

type	string		
facets	**kind**	**value**	**annotation**
	derivation	restriction	
	maxLength	25	
	minLength	1	
annotation	Functionnal ID of the document.		

6.1.51 Title

«XSDsimpleType»

type	string		
facets	**kind**	**value**	**annotation**
	derivation	restriction	
	maxLength	400	
	minLength	1	
annotation	Same as subject of mail		

6.2 MONITORING-V1

Namespace: **http://services.fgov.be/monitoring/v1**

Version:

6.2.1 Component

«XSDcomplexType»

Describes the component as created in CMDB

sequence

<> [0..1] **CatalogPart** (string)

<> [0..1] **Extensions** (Extensions)

<> [0..1] **MavenReference** (MavenReference)

<> **Name** (string)

The free-text name of the component, validated as the official name by TTF

<> **Version** (string)

The deployed version. In case of maven artificacts, the version should be in standardized X.Y.Z format.

6.2.2 Environment

«Enumeration»

facets	value	annotation
	PRD	Production
	SIM	Simulation
	ACC	Acceptance
	INT	Integration
	TST	Test
	DEV	Development
	SIC	SIC performance testing
	LOCAL	Local developer pc
	OTHER	Other
annotation	All environments	

6.2.3 Extensions

«XSDcomplexType»

An extension point to allow applications to add additional information

sequence

6.2.4 HealthCheckType

«Enumeration»

facets	value	annotation
	PING	The PING health check does not perform checks on its dependencies, and is used to see if the service is life
	DEFAULT	The DEFAULT health check does perform checks on its local dependencies, eg. database, filesystem, etc
	DEEP	The DEEP health check does perform checks on its local dependencies and external dependencies, eg. remote EJB and web services
annotation	Defines the kind of health check test to execute	

6.2.5 Location

«XSDcomplexType»

Describes the deployment location of the component

sequence

<> **Environment** (Environment)

<> [0..1] **Extensions** (Extensions)

<> **Host** (string)

The hostname of the server

<> [0..1] **Name** (string)

The name

<> [0..1] **Port** (int)

The port the application is listening on

<> [0..1] **URL** (string)

The URL representing the filepath location or address of the componenent

6.2.6 MavenReference

«XSDcomplexType»

Describes the artifact as catagorized by maven.

<> **artifactId** (string)

<> **groupId** (string)

6.2.7 Resource

«XSDcomplexType»

The resource that is checked in a sanity check.

sequence

<> [0..1] **Location** (Location)

<> **name** (string)

<> **reference** (string)

<> **type** (ResourceType)

6.2.8 ResourceType

«Enumeration»

facets	value	annotation
	DB	Database
	LDAP	LDAP directory service
	CACHE	Cache
	SOCKET	TCP Socket
	MAINFRAME	Mainframe
	BATCH	Batch system
	FILESYSTEM	File system
	CLASSPATH	Java Classpath
	CERTIFICATE	X.509 Certificate
	QUEUE	JMS Queue
	EJB	JavaEE Enterprise Java Bean
	WS	SOAP Web service
	MAIL	SMTP Mail
	OTHER	Other
annotation	Types of dependent resources	

6.2.9 SanityCheck

«XSDcomplexType»

A check against a single resource to validate its health.

sequence

<> **description** (string)

<> [0..1] **Extensions** (Extensions)

<> **failSafe** (boolean)

<> **id** (string)

<> **Resource** (Resource)

<> [0..1] **StackTrace** (string)

<> **Status** (Status)

<> **TimeInMillis** (int)

<> **type** (HealthCheckType)

6.2.10 Status

«XSDcomplexType»

The status of the component or a test.

sequence

<> [0..1] **Code** (string)

A status code defined by the component

<> [0..1] **Extensions** (Extensions)

<> **Level** (StatusLevel)

<> [0..1] **Message** (string)

The free-text status message

6.2.11 StatusLevel

«Enumeration»

facets	value	annotation
	OK	
	WARNING	There is an abnormal situation with no impact for the end-user, eg elevated response times, queues filled
	CRITICAL	There is a failure with impact to the end-user on part of the application.
	FATAL	The Critical level is only used for the global health status,

		and should not be used for sanity checks.
annotation	This is the status of the monitor test result.	

6.3 SWAREF

Namespace: http://ws-i.org/profiles/basic/1.1/xsd

Version:

6.3.1 swaRef

«XSDsimpleType»

type	anyURI		
facets	**kind**	**value**	**annotation**
	derivation	Restriction	
annotation			

7. COMMON TYPES SUPPLEMENTARY INFORMATION

7.1 COMPLEXTYPE: *MESSAGEID*

For the e-Box user: ticket / sequence are only displayed in “e-Box Enterprise” and “e-Box Professional”:

- For an e-Box user, the ticket / sequence are displayed on the “details page” of each message. Ticket can be used as search criteria in e-Box Enterprise and e-Box Professional. (Ticket is not displayed in eBox Citizen).
- For the sender and for e-Box Team, the ticket can be used to search the message in the e-Box system (for example, in order to check the message publication). The ticket is also used to inform the sender of the message status [read / unread].

7.2 COMPLEXTYPE: *RECIPIENTID*

A RecipientID defines an “Entity/Quality” couple that identifies the e-Box where the message will be published.

CompanyID or **INSS** or **NIHII:** entity id of the recipient, according to the entity type, respectively, an organization (enterprise or institution), an individual (for example a Citizen) or a provider of health care.

- An organization (enterprise or institution) is identified with a **CompanyID** (*numéro BCE/KBO nummer);*

- A natural person (Citizen / Professional / Curator ; “Service Provider *Natural Person*”….) is identified with its **INSS** (NISS / INSZ);
- A healthcare provider could be identified by its **NIHII** (n° INAMI / RIZIV).

QualityCode: quality code linked to the given entity. The quality code depends of the “Box type”

è See §8 Annex for a non-exhaustive list of quality codes.

Person: cf. complexType: Person

7.3 COMPLEXTYPE: *FILE*

This complex type is used for a Document or an Annex

7.4 COMPLEXTYPE: *FREEINFORMATION*

7.5 COMPLEXTYPE TABLE

7.6 COMPLEXTYPE: *META*

Meta for an e-Box User:

In e-Box, metadata are displayed on the “details page” of a message, into the “Description” section.

Metadata can be used as search criteria among messages of a same type.

8. COMMON ERROR CODES

8.1 SYSTEM ERROR CODES

These error codes indicate a problem in the request sent or a system error.

Code	Description	Cause	Explication
SOA-00001	Service error		This is the default error sent to the consumer in case no more details are known.
SOA-01001	Service call not authenticated	Consumer	From the security information provided, either the consumer could not be identified or the credentials provided are not correct.
SOA-01002	Service call not authorized	Consumer	The consumer is identified and authenticated, but is not allowed to call the given service.
SOA-02001	Service not available. Please contact service desk.	Provider	An unexpected error has occurred. Retries will not work. Service desk may help with root cause analysis.

SOA-02002	Service temporarily not available. Please try later.	Provider	An unexpected error has occurred. Retries should work. If the problem persists service desk may help.
SOA-03001	Malformed message	Consumer	This is the default error for content related errors in case no more details are known.
SOA-03002	Message must be SOAP	Consumer	Message does not respect the SOAP standard.
SOA-03003	Message must contain SOAP body	Consumer	Message respects the SOAP standard, but body is missing.
SOA-03004	WS-I compliance failure	Consumer	Message does not respect the WS-I standard.
SOA-03005	WSDL compliance failure	Consumer	Message is not compliant with WSDL.
SOA-03006	XSD compliance failure	Consumer	Message is not compliant with XSD.
SOA-03007	Message content validation failure	Consumer	From the message content (conform XSD): extended checks on the element format failed or cross-checks between fields failed.

8.2 BUSINESS ERROR CODES

These error codes are defined by the application.

Code	Description	Cause	Explication
10	Hash computed not equal to the providing hash		
15	The SHA-1 digest method cannot be used anymore		
20	The provided institution ID is not authorized to publish for another institution		
22	You are not authenticated as a MandateSender. You are then not authorized to publish a registered message		
30	You are authenticated as MandateSender. A MandateSender must specify a SenderID in SOAP request.		
40	The combo institution/application cannot send this message type		
42	Target audience not respected: the given messageType cannot be sent to this kind of recipient		
50	A given meta data is not authorized for this kind of message		
51	A given meta data is not well formed according the regular expression		
52	A required meta is missing according to the constraints		
90	Invalid Recipient		
620	Update not authorized. A message with the same (Ticket, Sequence, ApplicationID) already exists		

Note

Suppression of SHA-1
Tag: PublishEboxMessageRequest>Document>Digest>DigestMethod
The choices of algorithms of “digest” calculation on the document that is sent are:
SHA-256 et SHA-512 algorithm are allowed. SHA-1 does not guarantee sufficiant security, we have removed the usage in all our services.
In case that the option SHA-1 is used, the specific error returned by the service is : error code ‘15’ and error message ‘The SHA-1 digest method cannot be used anymore’.

9. ANNEX

9.1 WS EBOXMESSAGE ENDPOINT URI

For extranet

Integration:	https://professionalservices-int.socialsecurity.be/EBoxMessage/v1
Acceptation:	https://professionalservices-acpt.socialsecurity.be/EBoxMessage/v1
Production:	https://professionalservices.socialsecurity.be/EBoxMessage/v1

For internet

Acceptation:	https://services-acpt.socialsecurity.be/EBoxMessage/v1
Production:	https://services.socialsecurity.be/EBoxMessage/v1

9.2 COMMON QUALITY CODES

Possibility to publish to e-Box Enterprise without defining the quality code

The existing mechanism of publication is still supported.

It is no more needed to define the quality code for companies that use e-Box in their own name. It means concretely that it applies to companies using the following quality codes QUAL_EMP_NOSS ; QUAL_EMP_NOSSPLA ; QUAL_COMPANY.

In those cases, it is possible to define only « EboxType = ENTERPRISE » in place of the quality code (QualityCode). For example, the recipient of a message in a publication can be defined the 2 follwing ways

Explicit call of the quality name	New call
<RecipientID> <CompanyID>0123456789</CompanyID> <QualityCode>QUAL_EMP_NOSS</QualityCode> </RecipientID>	<RecipientID> <CompanyID>0123456789<CompanyID> <**EboxType**>**ENTERPRISE**<**EboxType**> </RecipientID>

Non-exhaustive list of quality codes:

e-Box Type	Quality Code	FR	NL	Expected entity ID type
e-Box Enterprise	(Same e-Box Type) 'ENTERPRISE'	Entreprise sans personnel	Onderneming zonder personeel	**CompanyID**
	QUAL_SSC	Secrétariat sociale agréé	Erkend sociaal secrétariaat	**CompanyID**
	QUAL_SP_LEG	Prestataire de services (personne morale)	Dienstverlener (rechtspersoon)	**CompanyID**
	QUAL_SP_IND	Prestataire de services (personne physique)	Dienstverlener (natuurlijke persoon)	INSS
	QUAL_FSC	Full Service Center APL	Full Service Center PPO	**CompanyID**
	QUAL_SPPLA_LEG	Prestataire de services ONSSAPL	Dienstverlener ONSSAPL	**CompanyID**
	QUAL_CUR	Curateur	Curator	INSS
e-Box Professionnal (Institution)	QUAL_MUN_ADM	Administration Communale	Gemeente bestuur	**CompanyID**
	QUAL_MUT_SOCSEC	Mutuelle en matière de sécurité sociale	Mutualiteit voor de sociale zekerheid	**CompanyID**
	QUAL_SOC_ACTION	Action Sociale	Maatschappelijk Welzijn	**CompanyID**
	QUAL_COMP_PENSION	Gestionnaire pensions complementaires	Beheerder aanvullende pensioenen	**CompanyID**
e-Box Professional (Personal)	PROFESSIONAL	*Professionnel (fonctionnaire)*	*professioneel (ambtenaar)*	INSS
eBox Citizen	(Same as e-Box Type) 'CITIZEN'	*Citoyen*	Burger	INSS

If you need to publish to an e-Box with another quality type, you can ask to eBoxIntegration@smals.be to get the valid quality code to use.

9.3 USING THE X.509 CERTIFICATE

Each request to the WS EBoxMessage must be signed with a X.509 certificate (cf.5.2.).

9.3.1 Dedicated certificate by sending application

For this use, each application of a same institution has a dedicated certificate. The sender doesn't have to give a "Sender tag" in the request.

CompanyID of the institution and URN of the application are automatically detected in the request signature made by means of the X.509 certificate.

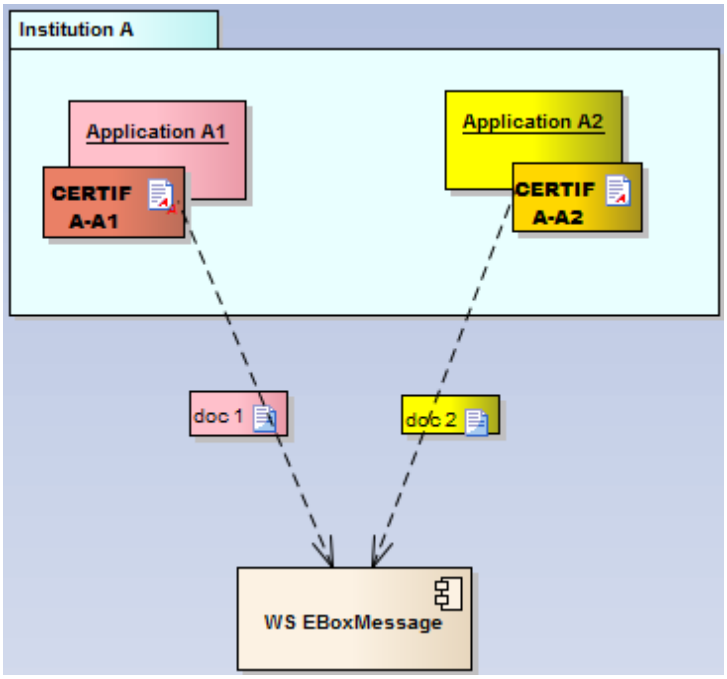
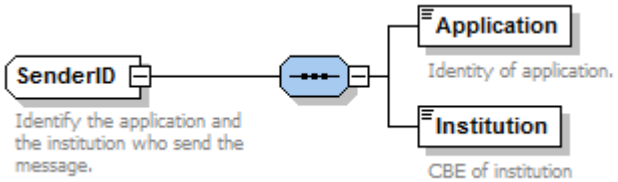


Figure 3 - Dedicated certificate by application

9.3.2 Single certificate shared by several sending applications

For this use, each application of a same institution uses the same certificate. The sender has to give a "Sender tag" in the request, in order to indicate for which application the message will be published.




```
<SenderID>
  <Application>${urn:of:application-to-indicate}</Application>
  <Institution>${0123456789}</Institution>
</SenderID>
```

The value given in the “SenderIDà**Institution**” tag must be the CompanyID of the institution, which is also detected and checked in the request signature made by means of the X.509 certificate.

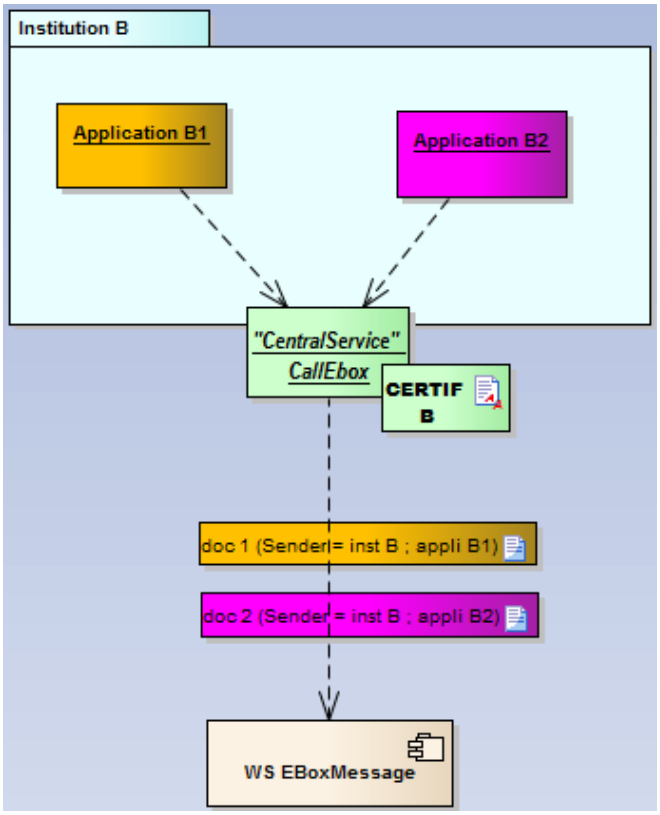


Figure 4 - Single certificate shared by several applications

9.4 CONTACT

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