

Attachment nr 2 - Webservice Interface For External Systems	Version: 18.0
ECIP_SEAP_SIP_Attachment_2_SEAP_WebService_Interface_For_External_Systems.docx	Data: 2015-07-02

MINISTRY OF FINANCE

SYSTEM INTEGRATION PLAN

ATTACHMENT NR 2 – SEAP XML SPECIFICATION

WEBSERVICE INTERFACE FOR EXTERNAL SYSTEMS

PROJECT ECIP/SEAP

VERSION <18.0>

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**INNOWACYJNA
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1. Webservice Interface for External Systems

1.1. Objective of the document

The aim of this specification is to define structure and informational content of XML documents (therein after called messages), sent or received by the SEAP System in communication between it and external systems.

1.2. Application of document

Document can be used as source definition in implementation or design of Client application (test or for production use)

The target audience is an analytical-design team on Polish Customs Officers, implementation teams, testers, documentalists on Contractor side or 3rd party companies.

1.3. Content description

Document contains the XSD and WSDL definitions of messages sent to or from SEAP. Also document specifies business operations needed on each sides.

1.4. Source and support documents

- System Integration Plan (only in polish language)
- XSD specification - <http://www.w3.org/XML/Schema>
- WSDL specification - <http://www.w3.org/TR/2002/WD-wsdl12-20020709/>
- SOAP specification - <http://www.w3.org/TR/soap/>
- WS-SecurityPolicy specification - <http://specs.xmlsoap.org/ws/2005/07/securitypolicy/ws-securitypolicy.pdf>

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1.5. Abbreviations and definitions

Termin	Definition
XML	Extensible Markup Language
XSD	XML Schema
WSDL	Web Services Description Language
SOAP	Simple Object Access Protocol
SEAP	Single Entry Access Point (pl. <i>PUESC</i>)
PUESC	SEAP (pl. <i>Portal Usług Elektronicznych Służby Celnej</i>)
ELE	External Legal Entity - company, agency, person understood as actor of Polish Customs System
CRKiD	Central Repository (pl. <i>Centralne Repozytorium Komunikatów i Dokumentów</i>)
URL	Uniform Resource Locator
SZPROT	Legal Entities Management System

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1.6. Specification limits

This specification defines XML structure as a logical carrier for different Customs messages.

It does not define specific message structure for particular messages like IE515 or AKC-N, but it's encapsulating them into higher logical layer.

1.7. Specification parts

Specification consists of one data model and two communication Webservice models:

1. File *WS_CHANNEL.xsd* – data model
2. File *WS_PULL.wsdl* – communication model from External Legal Entity to SEAP
3. File *WS_PUSH.wsdl* – communication model from SEAP to External Legal Entity

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2. Business operation – direction from ELE to SEAP

ELE can perform business operation towards SEAP using *WS_PULL.wsdl* interface on specified URL:

- corresponds to the SEAP platform
https://ws.puesc.gov.pl/seap_wsChannel/DocumentHandlingPort
- corresponds to the testing platform
https://wstest.puesc.gov.pl/seap_wsChannel/DocumentHandlingPort

NOTE.

To be able to perform business operations using electronic services (*WebServices*), the ELE representative must have an account in the SEAP system. The user's credentials (login and password) are the same for SEAP system as well as for *WebServices*, described in this section. The login is user's email address. The login and a SHA1 hash (base64) from the password must both be passed to the *WebService* in accordance to the *WS-Security* policy, *UsernameToken* profile, *PasswordDigest* mode and in accordance to the SEAP system policy **<wsp:Policy wsu:Id="ecipseap_policy">** defined in *WS_PULL.wsdl* file.

ELE has ability to perform two business operations related to sending an XML document to the SEAP system and retrieving an XML document from the SEAP system.

1. Send document to SEAP

It's performed by *WebService* method called **AcceptDocumentRequest** in *WS_PULL.wsdl*.

The logical carrier object called "*document*" is described later in this documentation, it resides in *WS_CHANNEL.xsd*.

After calling **AcceptDocumentRequest** SEAP sends synchronous response in **AcceptDocumentResponse** where logical carries of message is object called "*result*", described later in documentation.

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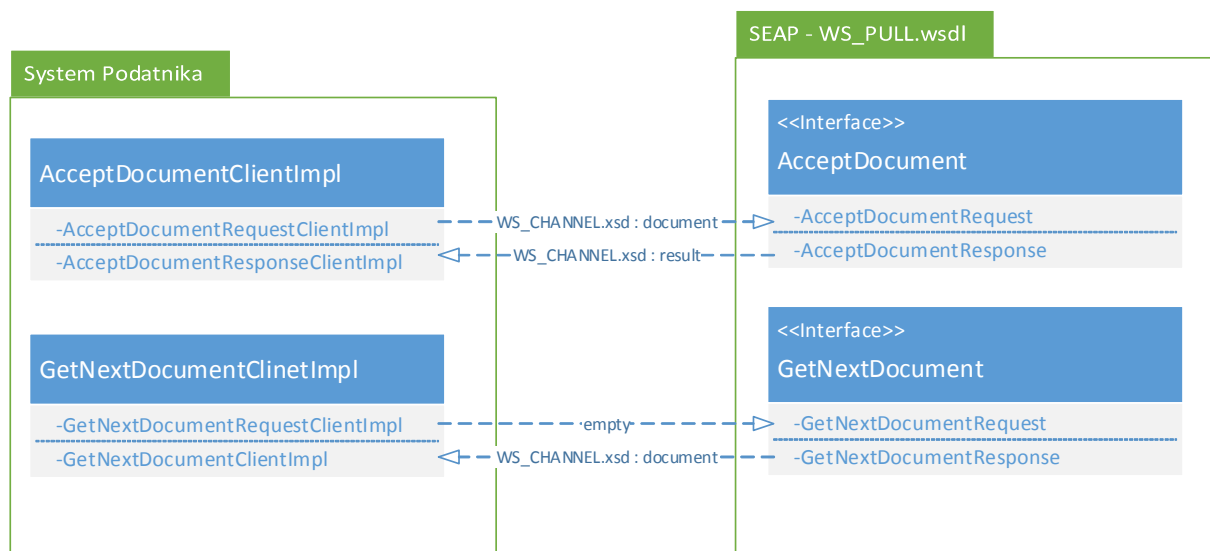
2. Retrieve unread document from SEAP

The operation of retrieving unread document is performed by method called **GetNextDocumentRequest** in *WS_PULL.wsdl*. This is no-argument operation just triggering a response with a "document" object.

It calls synchronous response called **GetNextDocumentResponse** where the "document" object resides

Below picture shows communication between ELE System and SEAP

„System Podatnika” is meant as ELE System.



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3. Data structure – direction from ELE to SEAP

The ELE is using structured defined in *WS_CHANNEL.xsd* in order to communicate with SEAP. Those structures depend on direction of user.

Here ELE System must comply with a “*document*” object and supply it to the **AcceptDocumentRequest** interface method. This “*document*” has number of elements and attributes described below:

Element / Attribute	Repeatability	Type
document	1	documentType
- content	1	contentType
- content/@filename	1	string
- content/@mime	1	contentType
- attachments	0..1	attachmentsType
- targetSystems	0..1	targetSystemsType

Description of elements and attributes:

- */document* - root element
- */document/content* – element containing main file which should be transported to Customs System
- */document/content/<value>* - Base64 binary representation of file
- */document/content/@filename* – file name, max 128 characters
- */document/content/@mime* – MIME type, valid values are: „*application/xml*”, „*application/pdf*”, „*other*”
- */document/attachments/.../content* – the content of additional attachment need with main file
- */document/targetSystems/.../system* – a list of selected Customs Systems where document should be delivered

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In synchronous response **AcceptDocumentResponse** SEAP will return a “result” object:

Element / Attribute	Repeatability	Type
result	1	resultType
- sysRef	1	string

Description of elements and attributes:

- */result* – root element
- */result/sysRef* – unique identifier of supplied document returned to ELE System from SEAP

ELE can query SEAP using **GetNextDocumentRequest** for next not-read document. The method has no arguments and triggers a response. If there is unread document next method will return it in context for *WS-Security* authorized user.

Above will be performed by synchronous response **GetNextDocumentResponse** returning the “document” object.

If there is no unread document (all document are already read) response will contain no object inside.

Moreover there are defined structures of business and technical errors:

1. **businessErrorType**
2. **techErrorType**

Both have the same internal structure:

- */error* – root element
- */error/errorCode* – error code, like E001
- */error/errorDesc* – error description

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In this flow direction SEAP can answer which errors:

1. business errors businessErrorType, code and description:
 - 1.1. *B001 – xml namespace not recognized*
 - 1.2. *B002 – xml namespace not configured*
 - 1.3. *B003- xml namespace not in date range*
 - 1.4. *B004 – namespace not in match with Customs System selection*
 - 1.5. *B005 – namespace not allowed in webservice*
2. technical errors techErrorType, code and description:
 - 2.1. *E001 – malformed base64 content*
 - 2.2. *E002 – mime does not match with content*
 - 2.3. *E003 – other error*

NOTE.

If the ELE does not expect a response from the SEAP system, then it should not use *WS_PULL* interface more than once every 5 minutes. In the case of unjustified use of this interface by ELE application it may be taken steps to restrict access / traffic for that ELE.

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4. Business operation – direction from SEAP to ELE

System SEAP can perform business operation of delivering message from it towards ELE System, calling interface *WS_PUSH.wsdl* which must be implemented on ELE System, for example in such URL: <https://6.6.6.6/wsImpl/DocumentHandlingSvc>

NOTE.

SEAP can do delivery on external Webservice only when below requirements are met”

1. Representative person of ELE registered URL of service, login and password into SZPROT system using corresponding registration form. Those data URL, login and password will be used if ELE needs a delivery on its *Webservice*. Those will be mapped into *WS-Security Username* and *PasswordDigest*.

If ELE registered and SSL certificate fingerprint in SZPROT, this fingerprint will be user to check verify endpoint SSL certificate prior to message delivery.

2. ELE must have globally trusted SSL certificate if https is used on registration SZPROT form. If plain http is used SEAP does not guarantee message encryption during transmission, thought is subject of own ELE risk.
3. URL of ELE system must be globally accessible.

SEAP can perform only one business operation regarding message delivery.

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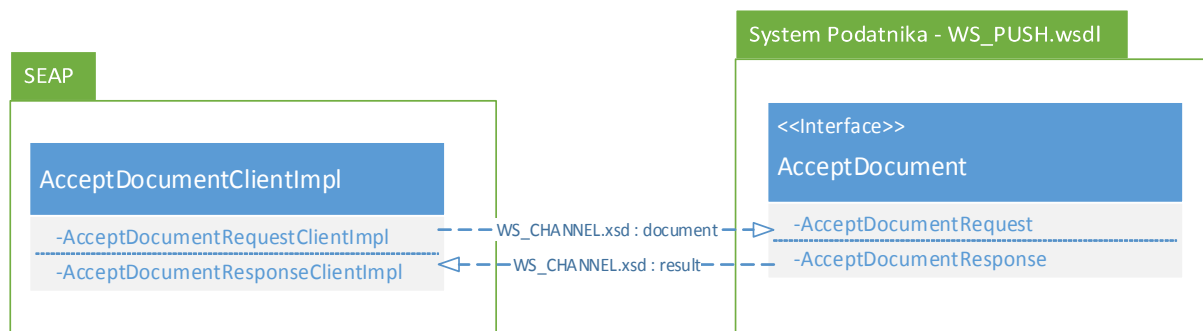
1. Message delivery from SEAP to ELE

Operation is performed by method **AcceptDocumentRequest** of *WS_PUSH.wsdl* interface.

Logical carrier is „*document*” object described precisely in *WS_CHANNEL.xsd* file.

After calling **AcceptDocumentRequest** to ELE, it should respond synchronously with **AcceptDocumentResponse** where carrier object is “*result*”, described in *WS_CHANNEL.xsd*.

Below picture shows communication model triggered in SEAP towards ELE (pl. „System Podatnika”):



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5. Data structure – direction from SEAP to ELE

SEAP performs communication towards ELE in using specific data structures defined in *WS_CHANNEL.xsd*, those depend on flow direction.

Below “*document*” object is described as what is send from SEAP to ELE using **AcceptDocumentRequest** message:

Element / Attribute	Repeatability	Type
document	1	documentType
- content	1	contentType
- content/@filename	1	string
- content/@mime	1	contentType
- dispatchId	1	string
- caseId	0..1	string
- personSISC	1	idSISC
- middleSISC	1	idSISC
- endSISC	1	idSISC
- attachments	0..1	attachmentsType
- targetSystems	0..1	targetSystemsType

Description of elements and attributes:

- */document* - root element
- */document/content* – element containing main file which should be transported to Customs System
- */document/content/<value>* - Base64 binary representation of file
- */document/content/@filename* – file name, max 128 characters
- */document/content/@mime* – MIME type, valid values are: „*application/xml*”, „*application/pdf*”, „*other*”
- */document/dispatchId* – SEAP will fill up this element with dispatching identifiers
- */document/caseId* – optionally SEAP will fill up this element if case identifier
- */document/personSISC* – SEAP will fill up this element with 1st grade id SISC
- */document/middleSISC* – SEAP will fill up this element with 2nd grade id SISC
- */document/endSISC* – SEAP will fill up this element with 3rd grade id SISC

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- */document/attachments/.../content* – the content of additional attachment need with main file
- */document/targetSystems/.../system* – a list of selected Customs Systems where document should be delivered

In synchronous response **AcceptDocumentResponse** ELE system should return “*result*” object:

Element / Attribute	Repeatability	Type
result	1	resultType
- sysRef	1	string

Description of elements and attributes:

- */result* – root element
- */result/sysRef* – unique file identifier after document submission. If non empty SEAP will consider the delivered document as READ and mark it in his repository as READ too.

Moreover there are defined structures of business and technical errors:

1. **businessErrorType**
2. **techErrorType**

Both have the same internal structure:

- */error* – root element
- */error/errorCode* – error code, like E001
- */error/errorDesc* – error description

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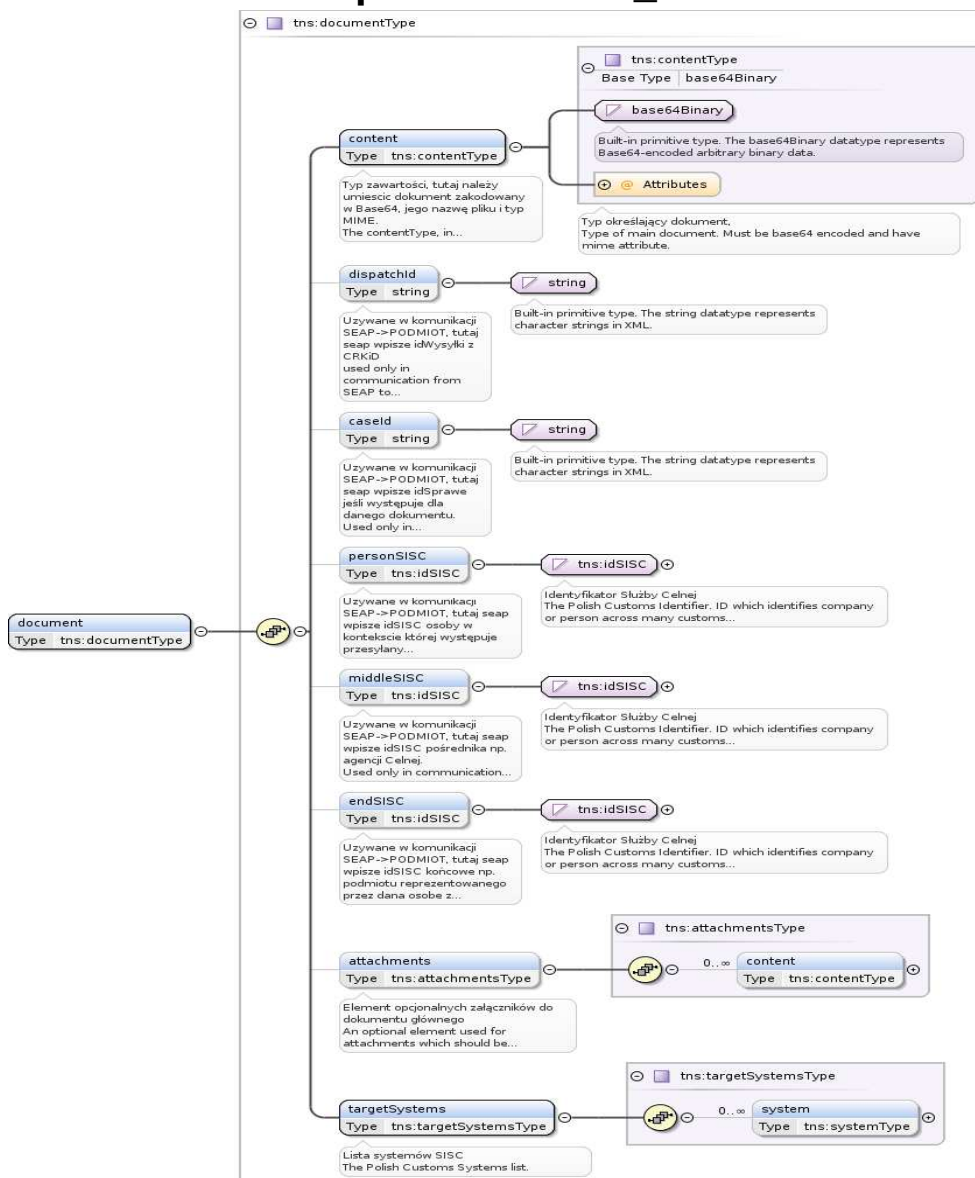
In this flow direction SEAP can answer which errors:

1. business errors returned by **AcceptDocumentResponse** are ignored by SEAP because it's interested only about delivery:
2. technical errors techErrorType, code and description:
 - 2.1. *E001 – malformed base64 content*
 - 2.2. *E002 – mime does not match with content*
 - 2.3. *E003 – other error*

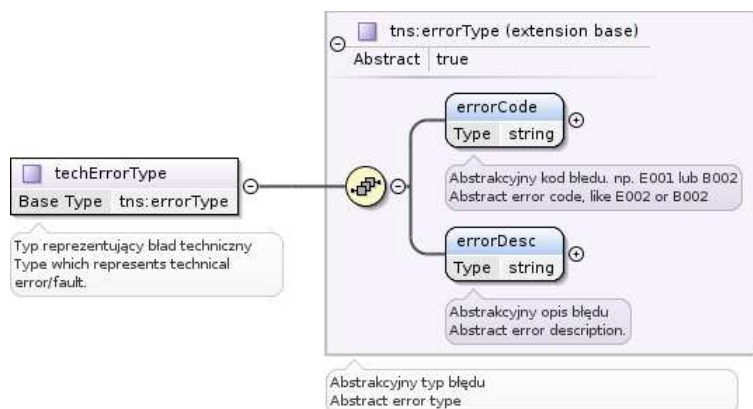
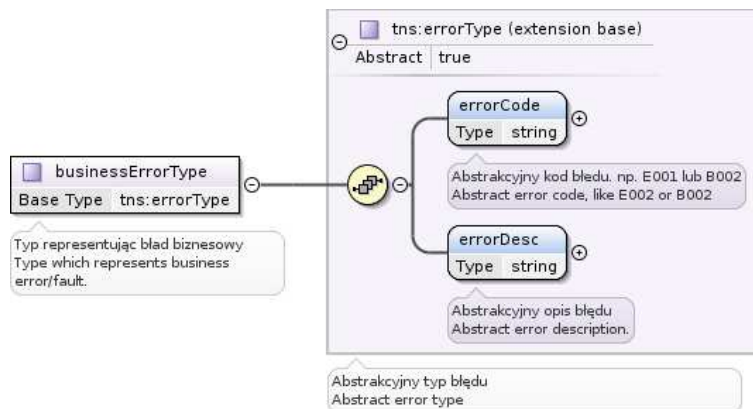
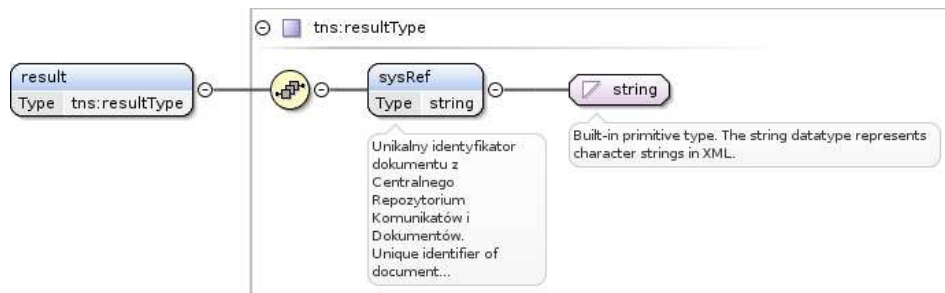
If technical error happen such as *E00X* SEAP will consider original message as *NOT READ*.

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6. Structural picture of **WS_CHANNEL.xsd**



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Examples:

1. Message from ELE to SEAP system

```
<document xmlns="http://www.mf.gov.pl/schematy/SISC/WsChannel/2014/01_v2_0">
  <content filename="filename1.xml" mime="application/xml">ZGVmYXVsdA==</content>
  <targetSystems>
    <system>SZPROT</system>
    <system>OSOZ2</system>
  </targetSystems>
</document>
```

2. Message from SEAP system to ELE

```
<document xmlns="http://www.mf.gov.pl/schematy/SISC/WsChannel/2014/01_v2_0">
  <content filename="filename1.xml" mime="application/xml">ZGVmYXVsdA==</content>
  <dispatchId>9989894ss0</dispatchId>
  <caseId>PL/SPRAWA/1/2014</caseId>
  <targetSystems>
    <system>PODMIOT</system>
  </targetSystems>
</document>
```

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7. Document Workflow – Messages

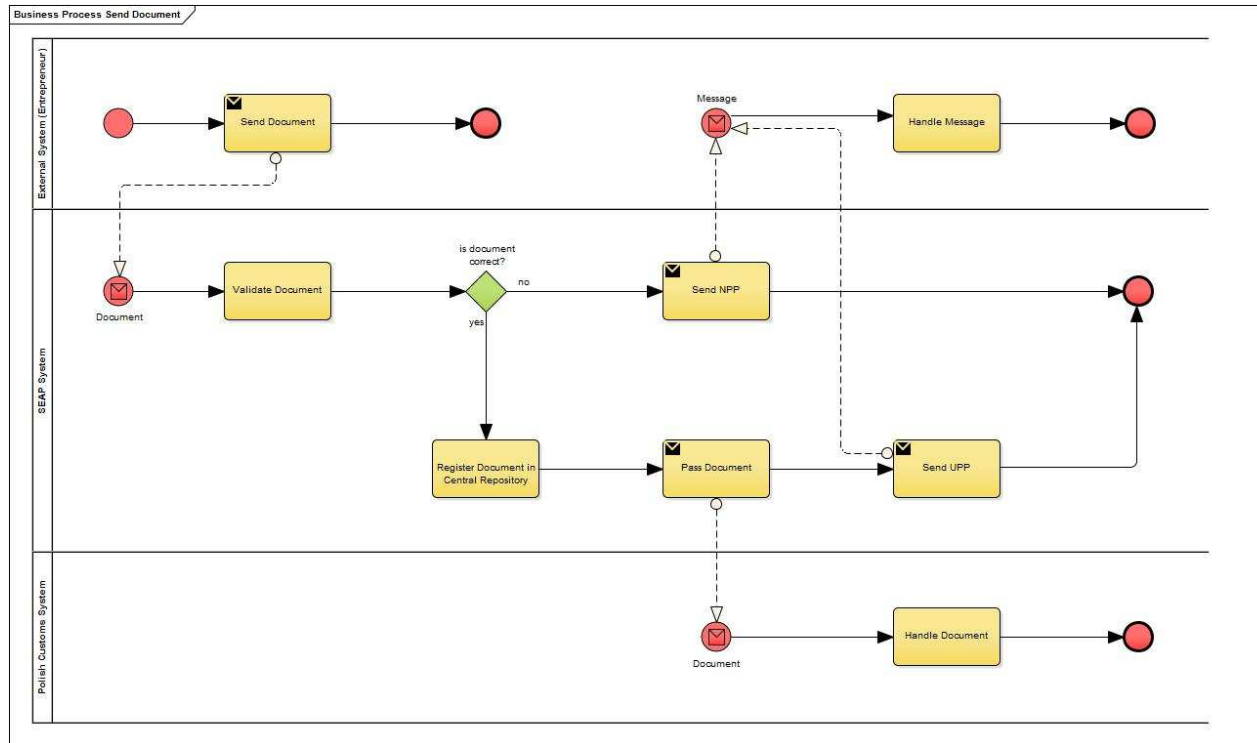
SEAP system sends the messages about the status of receipt or delivery documents during communication between the External System (Entrepreneur) and particular Polish Customs System. These messages are:

1. **UPD – Official Confirmation of Document Delivery** – this message is sent by the SEAP system to the External System (Entrepreneur) as a confirmation of service; the message must be signed by the ELE (using qualified signature or the qualified signature of the Polish Customs) and sent back to the SEAP System,
2. **PND – Confirmation of Undelivered Document** – this message is sent by the SEAP system to the particular Polish Customs System as a confirmation of non-delivery of the document to the ELE; the message is sent in a situation when the ELE did not return signed UPD message to the SEAP system within 14 days of service,
3. **UPP – Official Confirmation of Document Submission** – this message is sent by the SEAP system to the External System (Entrepreneur) as a confirmation of the document submission; optionally the message can also be sent to the particular Polish Customs System,
4. **NPP – Confirmation of Document Submission Failure** – this message sent by the SEAP system to the External System (Entrepreneur) or to the particular Polish Customs System as a statement of failure during document submission; the message is sent in a situation where the document was sent to the SEAP system but during validation document was considered not valid (incompatible with the appropriate XSD schema or unsigned when it is required).

Flows of messages between systems are shown on diagrams below.

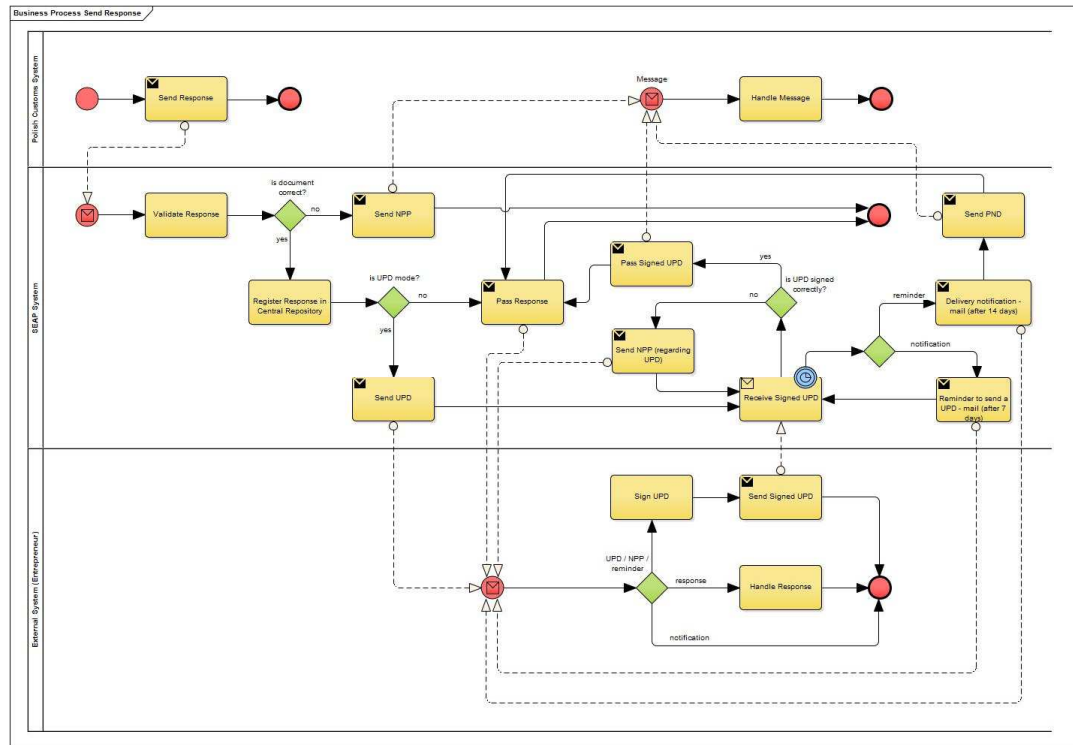
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1. Sending Document: External System (Entrepreneur) – Polish Customs System (particular)



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2. Sending Response: Polish Customs System (particular) – External System (Entrepreneur)



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8. Document Workflow – Messages – Additional XML Elements

The structure of the messages about the status of receipt or delivery of documents must be valid against proper XSD schema (filename *schematUPO.xsd*). The XSD schema defines the basic elements necessary for exchanging information between systems. The XSD schema provides the ability to support passing of additional data (XML elements) by the SEAP system.

To transfer the additional data there is used an XML element *<InformacjaUzupelniajaca>*, along with the attribute *TypInformacjiUzupelniajacej*.

Below there are descriptions of additional data for each message.

UPD message.

All the data is placed in the element *<UPD>*.

Additional data in the XML message (the name for *typInformacjiUzupelniajacej* attribute and the value):

- name = "*typPowiadomienia*" (Confirmation Type), the value is "*Urzędowe Poświadczenie Doręczenia*" (Official Confirmation of Document Delivery)
- name = "*skrotDokumentu*" (Document Hash), the value is an SHA1 hash for the document
- name = "*idDokumentuSEAP*" (SEAP System Document ID), the value is an internal identifier of the document in the SEAP system
- name = "*idDokumentuSystemZewnetrzny*" (External System Document ID), the value is an internal identifier of the document in the external system
- name = "*idSprawySystemZewnetrzny*" (External System Case ID), the value is an internal identifier of the case in the external system
- name = "*idWyslukiDokumentu*" (Document Shipping ID), the value is an internal identifier of shipping for the document in the SEAP system

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Example:

```
<pos:UPD>
  <pos:InformacjaUzupelniajaca typInformacjiUzupelniajacej="typPowiadomienia">
    Urzędowe Poświadczenie Doręczenia
  </pos:InformacjaUzupelniajaca>
</pos:UPD>
```

PND message.

All the data is placed in the element <UPD>.

Additional data in the XML message (the name for *typInformacjiUzupelniajacej* attribute and the value):

- name = "*typPowiadomienia*" (Confirmation Type), the value is "*Poświadczenie Nedoręczenia Dokumentu*" (Confirmation of Undelivered Document)
- name = "*skrotDokumentu*" (Document Hash), the value is an SHA1 hash for the document
- name = "*idDokumentuSEAP*" (SEAP System Document ID), the value is an internal identifier of the document in the SEAP system
- name = "*idDokumentuSystemZewnetrzny*" (External System Document ID), the value is an internal identifier of the document in the external system
- name = "*idSprawySystemZewnetrzny*" (External System Case ID), the value is an internal identifier of the case in the external system
- name = "*idWyslukiDokumentu*" (Document Shipping ID), the value is an internal identifier of shipping for the document in the SEAP system

Example:

```
<pos:UPD>
  <pos:InformacjaUzupelniajaca typInformacjiUzupelniajacej="typPowiadomienia">
    Poświadczenie Nedoręczenia Dokumentu
  </pos:InformacjaUzupelniajaca>
</pos:UPD>
```

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UPP message.

All the data is placed in the element <UPP>.

Additional data in the XML message (the name for *typInformacjiUzupelniajacej* attribute and the value):

- name = "*typPowiadomienia*" (Confirmation Type), the value is "*Urzędowe Poświadczenie Przedłożenia*" (Official Confirmation of Document Submission)
- name = "*skrotDokumentu*" (Document Hash), the value is an SHA1 hash for the document
- name = "*idDokumentuSEAP*" (SEAP System Document ID), the value is an internal identifier of the document in the SEAP system
- name = "*idDokumentuSystemZewnetrzny*" (External System Document ID), the value is an internal identifier of the document in the external system
- name = "*idSprawySystemZewnetrzny*" (External System Case ID), the value is an internal identifier of the case in the external system
- name = "*idWplywuDokumentu*" (Document Submitting ID), the value is an internal identifier of submitting for the document in the SEAP system

Example:

```
<pos:UPP>  
  <pos:InformacjaUzupelniajaca typInformacjiUzupelniajacej="typPowiadomienia">  
    Urzędowe Poświadczenie Przedłożenia  
  </pos:InformacjaUzupelniajaca>  
</pos:UPP>
```

NPP message.

All the data is placed in the element <UPP>.

Additional data in the XML message (the name for *typInformacjiUzupelniajacej* attribute and the value):

- name = "*typPowiadomienia*" (Confirmation Type), the value is "*Poświadczenie Nieprzedłożenia Dokumentu*" (Confirmation of Document Submission Failure)

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- name = "skrotDokumentu" (Document Hash), the value is an SHA1 hash for the document
- name = "idDokumentuSEAP" (SEAP System Document ID), the value is an internal identifier of the document in the SEAP system
- name = "idDokumentuSystemZewnetrzny" (External System Document ID), the value is an internal identifier of the document in the external system
- name = "idSprawySystemZewnetrzny" (External System Case ID), the value is an internal identifier of the case in the external system
- Name = "PrzyczynaBledu" (Error Reason), the value is the description of the cause of an error that occurred during validation of the document

Example:

```
<pos:UPP>  
  <pos:InformacjaUzupelniajaca typInformacjiUzupelniajacej="typPowiadomienia">  
    Poświadczenie Nieprzedłożenia Dokumentu  
  </pos:InformacjaUzupelniajaca>  
</pos:UPP>
```

By using of additional data you can specify the exact type of notification message or link a document to the message which it refers to (for example: by using a document hash).

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9. FAQ – Frequently Asked Questions

7.1 What is *WS-Security* profile used here?

We use *UsernameToken* Profile with *PasswordDigest* method. As well as *WS-Addressing* extensions.

7.2 Can ELE send message to SEAP over non encrypted HTTP?

No. Only *https* please.

7.3 What are 1st, 2nd, 3rd grade *SISC* identifiers?

idSISC is a user identifier as part of the Information System of the Customs Service, in particular:

- *idSiscP* - *idSISC* of ELE (1st grade *SISC*)
- *idSiscROP* - *idSISC* of a legal person, the intermediary (2nd grade *SISC*)
- *idSiscROF* - *idSISC* of a natural person (3rd grade *SISC*)

7.3 What can we do with received *sysRef*?

Can be used for tracking message, statistical reports and so on.

7.4 We do not know username or password for *WS-Security*, how to get them?

Should set up account on SEAP Portal first <https://puesc.gov.pl/en/> then your email and password are same login and password in *WS-Security*.

7.5 What if we change *SSL* certificate on our side *WS_PUSH.wsdl* interface?

Should update SZPROT system form and submit new *SSL* certificate fingerprint there.