

SEAP PLUS

Public Technical Specification EN

Version: 5.50

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1 Admission

1.1 Purpose of the document

The purpose of this specification is to describe the defined structure and information content of communication channels intended to handle XML documents (hereinafter also referred to as messages) sent and received by the SEAP System in communication with External Public Entities.

1.2 Use

The document will be used as a source in the design, implementation and creation of test and use documentation of the System and other systems on the part of companies involved in the development of software for business entities.

1.3 Document recipients

The document is addressed to the analytical and design team on the part of the National Tax Administration and teams of designers, programmers, testers and documentalists on the Contractor's side and companies involved in the development of software for business entities. The reader of the document is required to have a basic understanding of the XML, XSD, and WSDL document specifications.

1.4 Document scope

The document contains a description of the XSD specification and XML messages sent to the SEAP/PUESC System as well as messages sent from the SEAP/PUESC System to the systems of External Entities. The specification describes the operation of SEAP channels in terms of transmission of messages between the SEAP System and the systems of Third Parties.

The document describes the specification of communication through communication channels: WebService, E-mail.

1.6 Testimonial

1.6.1 Supporting documents

The following table collects supporting documents.

Table 1 Supporting documents

Lp.	ID	Name	Designation	Version	Date
1.	D02	XSD Specifications: http://www.w3.org/XML/Schema	n/a		
2.	D03	WSDL Specifications: http://www.w3.org/TR/2002/WD-wsdl12-20020709/	n/a		
3.	D04	SOAP Specifications: http://www.w3.org/TR/soap/ https://www.w3.org/TR/2000/NOTE-SOAP-20000508/	n/a		
4.	D05	WS-SecurityPolicy Specification: http://specs.xmlsoap.org/ws/2005/07/securitypolicy/ws-securitypolicy.pdf	n/a		

2 Terminology

2.1 Abbreviations and acronyms

Explanations of the abbreviations and acronyms used are summarized in the table below.

Table 2 Abbreviations and acronyms.

No.	Abbreviation/Acronym	Description
1.	XML	<i>Extensible Markup Language</i> - a universal markup language designed to represent various data in a structured way.
2.	XSD	<i>XML Schema</i> - a standard developed by the W3C for defining the structure of an XML document.
3.	WSDL	<i>Web Services Description Language</i> - an XML-based language for defining web services.
4.	SOAP	<i>Simple Object Access Protocol</i> - a protocol for invoking remote access to objects, using XML to encode calls.
5.	SEAP Plus	<i>Single Electronic Access Point</i>
6.	PUESC	Tax and Customs Electronic Services Platform
7.	CRKiD	Central Repository of Messages and Documents
8.	URL	Uniform Resource Locator
9.	SPRAT Plus	System of integrated registration of Entities and handling of applications - responsible, among others, for handling the e-Decisions and e-Client processes.
10.	SISC	Tax and Customs Information System
11.	FAQ	Frequently Asked Questions (and their answers)
12.	idSiscROF	user (individual) identifier within SISC
13.	idSiscP	user (subject) identifier within SISC
14.	idSiscROP	user (intermediary) identifier within the SISC
15.	ePUAP	Electronic Platform of Public Administration Services, a nationwide ICT platform used for communication between citizens and public administration units in a standardized, standard way
16.	PDR	SISC Reference Data Subsystem

2.3 Definitions

Definitions of the terms used are summarized in the table below.

Table 3 Definitions

Lp.	Definition	Description
1.	System	Unless otherwise indicated, SEAP Plus.
2.	Third Party	A company, agency or individual who wishes to use the non-visual PUESC services described in this document.
3.	Domain system	A system from the KAS domain other than SEAP Plus responsible for receiving and sending messages from and to External Entities, respectively, e.g. AES, NCTS. Communication is carried out using SEAP Plus or directly.
4.	Operating system	See the Domain System, another name used in the National Revenue Administration.

3 Standards, techniques, tools

3.1 Technical standards

Table 4 Technical standards

No.	Standard	Application Description
1.	RFC822	The system supports <i>RFC822 compliant</i> e-mails.
2.	RFC1524	Email attachments supported by the system must comply with the RFC1524 standard

4 Technical Specifications

The public specification describes the communication used to exchange information with external users. In the chapter [4.1 Document flow](#) describes general principles of document flow common to all non-visual channels. The following subsections describe the individual channels.

4.1 Document flow

During the communication between the external system of the Entity and the SISC Domain System, two types of messages are sent via PUESC:

- Business communications – information carriers, contain the content of relevant electronic documents exchanged between the entity and the SISC Domain Systems.
- Technical messages - messages informing about the status of receipt and delivery of documents.

4.1.1 Message roles

During the communication between the external system of the Entity and the SISC Domain System (via the PUESC portal or one of the non-visual channels), messages are sent informing about the status of receipt or delivery of documents. These are:

1. **UPD – Official Confirmation of Delivery** – a message sent by the PUESC system to the external system of the Entity as a confirmation of delivery of a document; this message must be signed by the Entity (with a qualified signature or a non-qualified customs signature) and sent back to the PUESC system;
2. **PND – Certificate of Non-Delivery of a Document** – a message sent by the PUESC system to the SISC domain system as a confirmation of non-delivery of a document to the Entity; the message is sent in a situation where the Entity has not sent back to the PUESC system the signed UPD message within the time allotted for this purpose, which is currently 14 days from the date of delivery;
3. **UPP – Official Confirmation of Submission** – a message sent by the PUESC system to the external system of the Entity as a confirmation of the submission of a document;
4. **NPP – Certificate of Non-Submission of a Document** – a message sent by the PUESC system to the external system of the Entity as a confirmation of non-submission of a document; the message is sent when the Entity has sent to the PUESC system a document that was found to be incorrect during validation (inconsistent with the relevant XSD scheme or unsigned, when required);
5. **UPO – Official Confirmation of Receipt** – a message sent by the SISC domain systems, constituting a confirmation for the Entity about the receipt of the document and informing about the commencement of the case. Used, m.in others, in the ZEFIR2 system to confirm

receipt of tax returns and in the SZPROT system as a confirmation of receipt of applications
- e-Client forms for registration, updating and deactivation of entities.

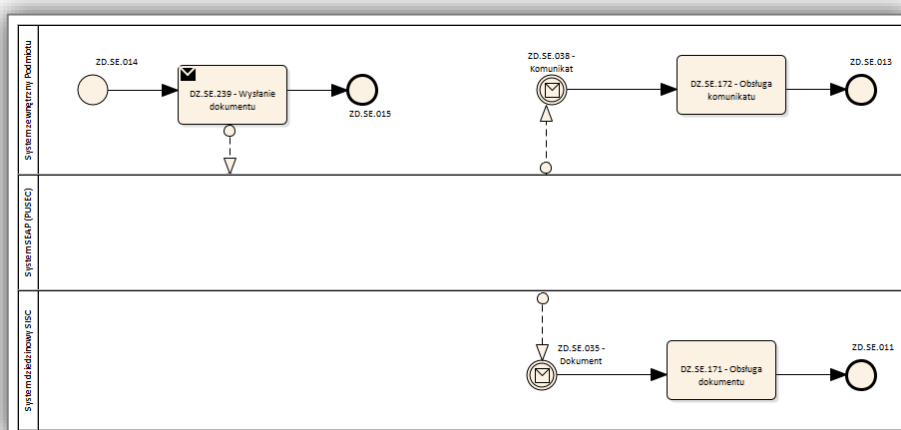
Technical messages returned as a response to the main document, sent by the Entity's external systems, are bound on the basis of the CorrelationSysref attribute. When a document is sent, taking into account all communication channels (Portal, WebService, EmailChannel), the CorrelationSysref attribute is created and then passed as a parameter to bind all documents that are a response to the main document.

In technical messages, it is saved as a section:

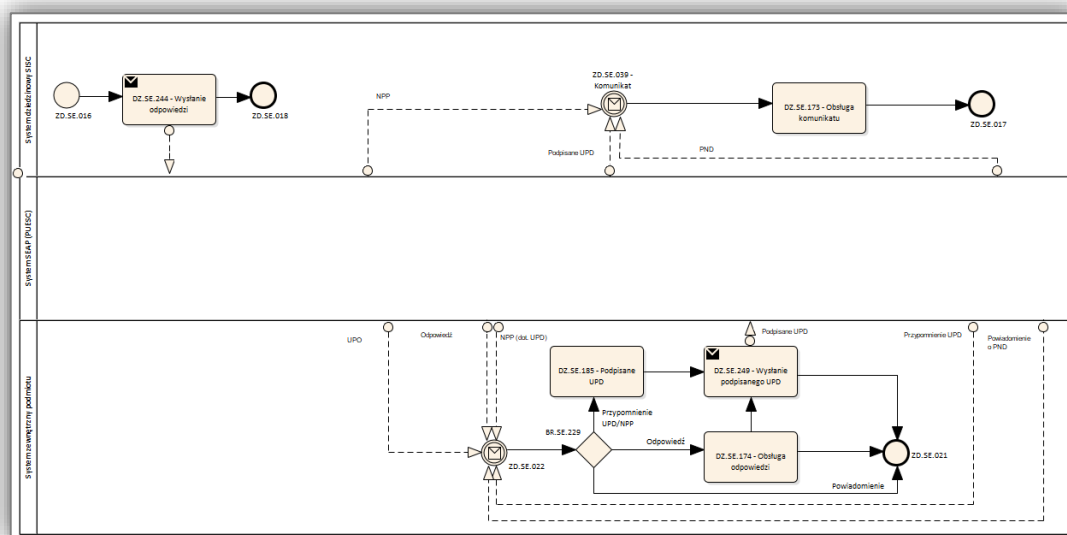
- Type of supplementary information: CorrelationSysref
- Supplementary Information Value: MainDocumentSysrefNumber

Message flows between systems are shown in the diagrams below.

Drawing 1 Sending a document: External system of the Entity – SISC domain system



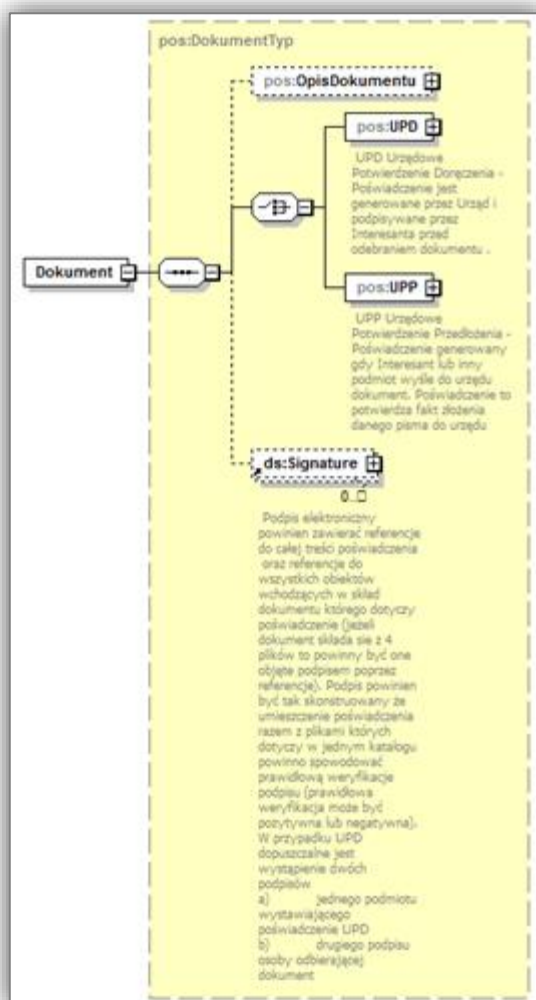
Drawing 2 Sending a reply: SISC domain system – External system of the Entity



4.1.2 Structure and information content of messages

The structure of messages informing about the status of receipt or delivery of documents is consistent with the XSD scheme *schemeUPO.xsd* included in Appendix PUESCKUD_SEAP_XML_PL - załączniki.zip in the "UPO_XSD" catalogue. The XSD scheme is compliant with the ePUAP specification and defines the basic elements necessary for the exchange of information between the systems. The XSD schema provides for the possibility of handling additional data (XML elements) by the PUESC system.

Drawing 3 Document Element Structure

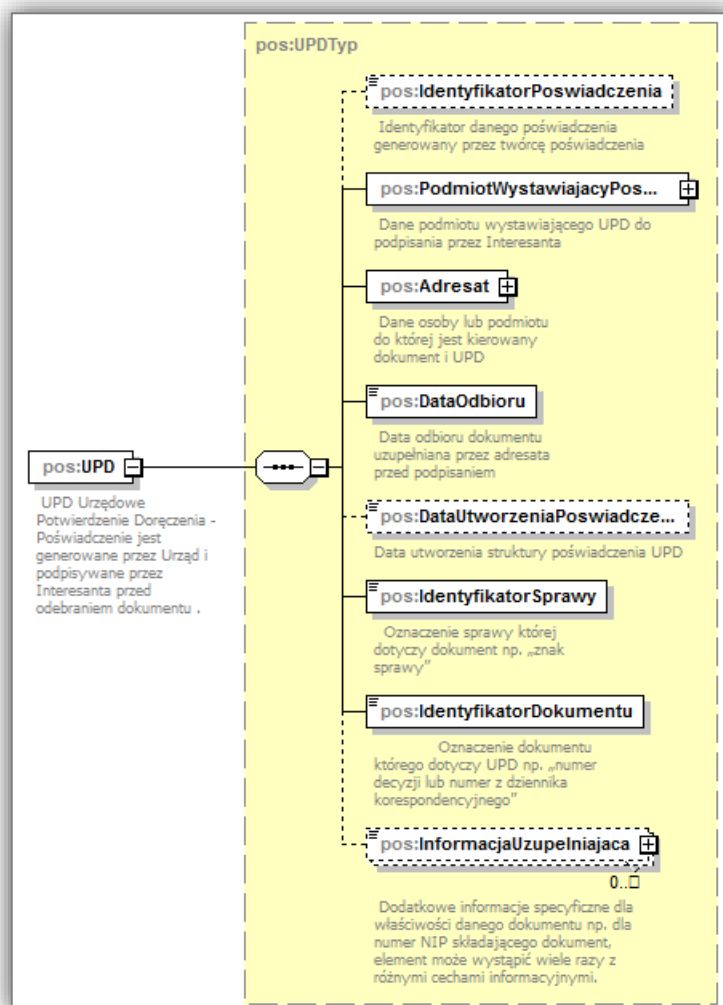


For the submitted technical documents, the following elements are filled in:

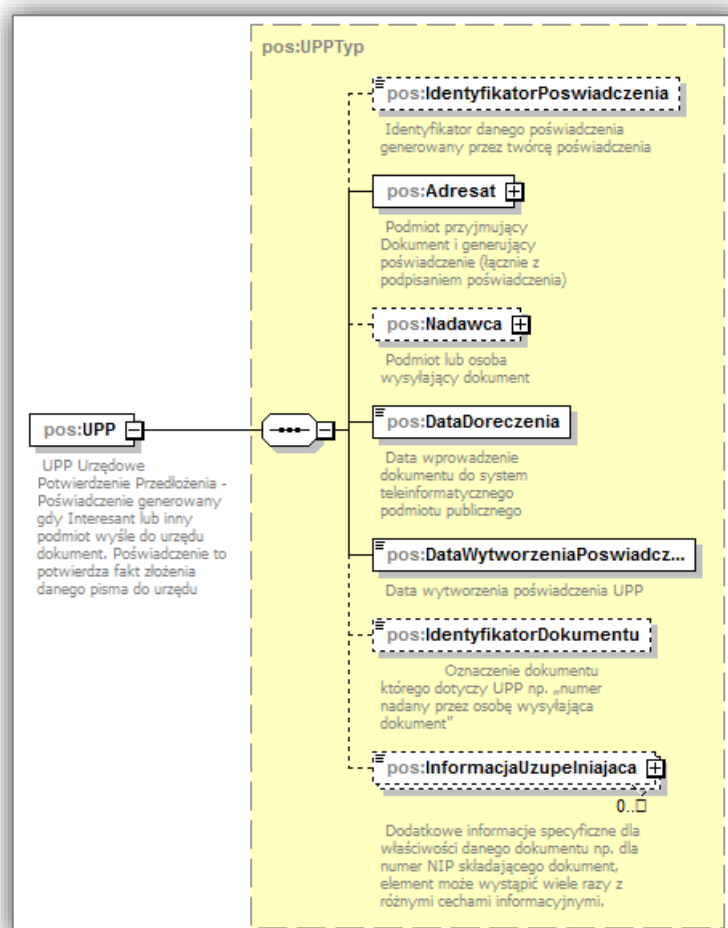
DocumentDescription - <str:CID>

- UPP element (for UPP and NPP messages)
- UPD element (for UPD and NPD messages)

Drawing 4 UPD Component Structure



Drawing 5 UPP Element Structure



Description of the elements used:

- Attestation ID – SEAP identifier of the attestation document,
- DocumentIdentifier - identifier to which the technical document relates (SEAP identifier – SysRef),
- Supplementary Information (described below).

Additional XML elements:

To transmit additional data, the *<SupplementInformation>* element is used, together with the SupplementInformationType attribute.

The table below presents additional data for individual messages.

4.1.2.1 UPD Message

All data contained in the <UPD> element.

Additional data in the XML message (attribute name of *SupplementInformationtype*, value):

- name="NotificationType", value: "Attestation issued by the PUESC platform",
- name="shortcutDocument", the value is the generated SHA1 hash for the document,
- name="documentidSEAP", the value is the internal identifier of the document in the SEAP system (PUESC),
- name="documentidExternalSystem", the value is the internal identifier of the document in the external system,
- name="CaseldExternalSystem", the value is the internal ID of the case in the external system,
- name="DocumentSendId", the value is the internal shipment identifier for the document in the SEAP system (PUESC),
- name="CorrelationSysref", the value is the sysRef ID of the related main document.
- First Notification - Date and Time of First Notification
- Repeated notification - date and time of repeated notification
- Date of delivery - date and time (14 days from the original notification)
- Information on the conditions for recognizing a document as delivered - A document not collected by the Addressee within 14 days from sending the first notification in accordance with Article 152a § 3 of the Tax Ordinance Act is considered to have been delivered

Example:

```
<pos:UPD>  
<pos:SupplementaryInformationSupplementaryInformationtype="notificationtype">  
Certificate issued by the PUESC platform  
</pos:Supplementary information>  
</pos:UPD>
```

4.1.2.2 PND message

All data contained in the <UPD> element.

Additional data in the XML message (attribute name of *SupplementInformationtype*, value):

- name="notificationtype", value: "Certificate of non-delivery of document",

- name="shortcutDocument", the value is the generated SHA1 hash for the document,
- name="documentidSEAP", the value is the internal identifier of the document in the SEAP system (PUESC),
- name="documentidExternalSystem", the value is the internal identifier of the document in the external system,
- name="CaseIdExternalSystem", the value is the internal ID of the case in the external system,
- name="DocumentSendId", the value is the internal shipment identifier for the document in the SEAP system (PUESC),
- First Notification - Date and Time of First Notification
- Repeated notification - date and time of repeated notification
- Date of delivery - date and time (14 days from the original notification)
- Information on the conditions for recognizing a document as delivered - A document not collected by the Addressee within 14 days from sending the first notification in accordance with Article 152a § 3 of the Tax Ordinance Act is considered to have been delivered

Example:

```
<pos:UPD>  
  
<pos:SupplementaryInformationType="notificationtype">  
Certificate issued by the PUESC platform  
</pos:Supplementary information>  
</pos:UPD>
```

4.1.2.3 UPP announcement

All data contained in the <UPP> element.

Additional data in the XML message (attribute name of *SupplementInformationtype*, value):

- name="notificationtype", value: "Official Attestation of Submission",
- name="shortcutDocument", the value is the generated SHA1 hash for the document,
- name="documentidSEAP", the value is the internal identifier of the document in the SEAP system (PUESC),
- name="documentidExternalSystem", the value is the internal identifier of the document in the external system,

- name="CaselIdExternalSystem", the value is the internal ID of the case in the external system,
- name="DocumentReceiptId", the value is the internal identifier of the receipt for the document in the SEAP system (PUESC),
- name="CorrelationSysref", the value is the sysRef ID of the related main document.

Example:

```
<pos:UPP>  
  
<pos:SupplementaryInformationType="notificationtype">  
Official Certification of Submission  
</pos:Supplementary information>  
</pos:UPP>
```

4.1.2.4 NPP Message

All data contained in the <UPP> element.

Additional data in the XML message (attribute name of *SupplementInformationtype*, value):

- name="notificationtype", value: "Certificate of non-submission",
- name="shortcutDocument", the value is the generated SHA1 hash for the document,
- name="documentidSEAP", the value is the internal identifier of the document in the SEAP system (PUESC),
- name="documentidExternalSystem", the value is the internal identifier of the document in the external system,
- name="CaselIdExternalSystem", the value is the internal ID of the case in the external system,
- name="ErrorReason", the value is a description of the cause of the error that occurred during the validation of the document.

Example:

```
<pos:UPP>  
  
<pos:SupplementaryInformationType="notificationtype">  
Certification of failure to submit a document  
</pos:Supplementary information>  
</pos:UPP>
```

By using additional data, it is possible to specify the type of notification and link the message to the document to which the message relates (e.g. by using a document abbreviation).

REMARK:

Each NPP can contain an attachment of the source document associated with the NPP. This applies to each of the possible access channels WS_PULL, WS_PUSH, EMAIL. In such a case, the source document is attached as an attachment in accordance with the interface applicable to each of the above-mentioned channels.

4.1.3 Message schemas

See Appendices 1 and 2 to the document.

4.1.4 Message examples

See attachments no. 5, 6, 7, 8, 9, to the document.

4.1.5 Validation rules

XML messages are validated according to the XSD schemas corresponding to the appropriate document types. They can also be validated using technical validation rules on the PUESC side (e.g. signature verification, authorization verification). Business validation of the content of the sent documents takes place only on the side of the Domain Systems.

4.2 WebService channel

One of the channels of communication with external entities is the WebService (WS Channel). It is a non-visual communication channel that allows receiving and sending electronic documents through a web service, enabling the retrieval of business data, usually used to connect the Entity's IT system.

To send messages to the webservice interface of the PUESC system, the SOAP 1.1 communication protocol is used

It is required to use the following extensions: WS-Addressing (MessageID header is required) and WS-Security with a non-standard way of sending the password hash (PasswordDigestExt) described below.

4.2.1 User authorization

In order to be able to use *the WebService channel* , the User must have an account on the PUESC Portal.

Login to the WebService is the user's login to the PUESC portal, i.e. the user's e-mail address.

The login and SHA1 hash (base64) of the password must be passed to *the WebService* according to the WS-Security specification, *UsernameToken* profile, *PasswordDigest mode*, according to the `<wsp:Policy wsu:Id="ecipseap_policy"> policy` contained in the **WS_PULL.wsdl file**

Password_Digest = Base64 (SHA-1 (nonce + created + **[password hash]**)) Password hash **algorithm: Base64 (SHA-1 (password))**

The use of the WS-Addressing SOAP extension is required.

If user authorization fails, the webservice channel returns an error:

```
<soap:Fault>
  <faultcode
xmlns:ns1="http://ws.apache.org/wss4j">ns1:SecurityError</faultcode>
  <faultstring>A security error was encountered when verifying the
message</faultstring>
</soap:Fault>
```

An error during authorization can be caused by:

- No account or account inactive on PUESC portal
- Password field in Header Security UsernameToken constructed incorrectly
- The Created field in the Header Security UsernameToken contains a timestamp that is invalid (It does not match the current time, or it is not stored in UTC format). The correct timestamp contained in the `<wsu:Created>` field should be in accordance with the ISO 8601 format, saved in UTC and cannot differ by more than 5 minutes from the current time.

Example: `<wsu:Created>2021-09-24T14:41:50Z</wsu:Created>`

4.2.2 Direction from the External Entity to PUESC

4.2.2.1 Service metrics

Table 5 WS_PULL metrics

Attribute	Description
Description	WS_PULL
Type	WebService
Call Type	On demand
Service Mode	Synchronous
Operations and methods	- AcceptDocument - GetNextDocument - GetNextDocumentSisc - GetDocuments
Operation Details	The WebService PULL channel includes methods for uploading a document to the SEAP (AcceptDocument) and for retrieving documents from the SEAP (GetNextDocument, GetNextDocumentSisc, GetDocuments).
Comments	Lack

4.2.2.2 Business operations

The External Entity may carry out business operations using the *WS_PULL.wsdl* interface on its side, made available by PUESC. An External Entity using this interface can communicate:

- with the production PUESC system via the URL:
https://ws.puesc.gov.pl/seap_wsChannel/DocumentHandlingPort?wsdl
- and in the test environment by the URL respectively:
https://te-ws.puesc.gov.pl/seap_wsChannel/DocumentHandlingPort?wsdl

REMARK!

Accounts on PUESC are personal. In order to be able to use electronic services via WebService, the User acting on behalf of the External Entity must have an account on the PUESC Portal. The PUESC login (i.e. the user's e-mail address) is also the login to the WebServices specified in this chapter. The login and SHA1 hash (base64) from the password must therefore be passed to the WebService according to the WS-Security specification, UsernameToken profile, PasswordDigest mode. According to the <wsp:Policy policy in the WS_PULL.wsdl file, wsu:Id="ecipseap_policy">, **WS-Addressing is required.**

Password_Digest = Base64 (SHA-1 (nonce + created + [password hash]))

Hash algorithm from password: Base64 (SHA-1 (password))

REMARK:

The message lifetime is set to 5 minutes, and after this time the external entity receives the message:

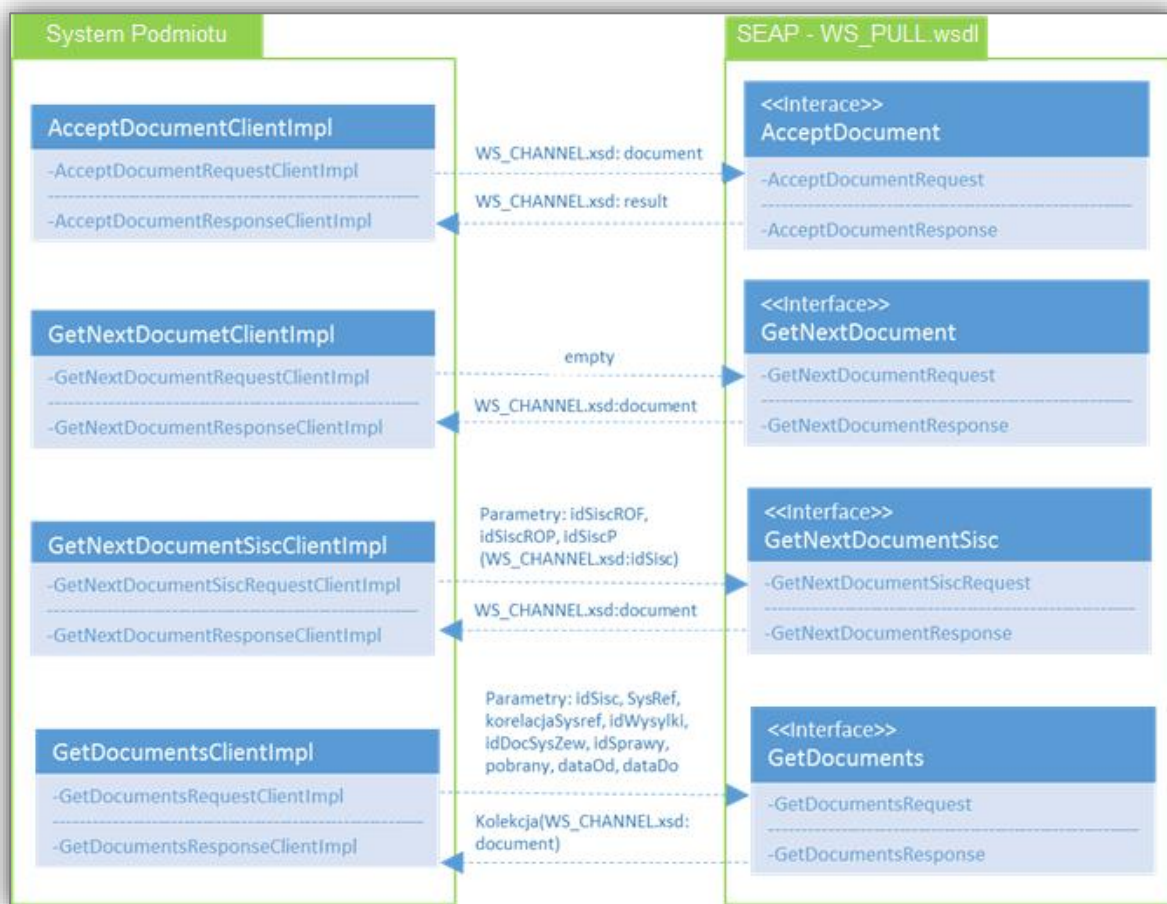
"A security error was encountered when verifying the message".

To ensure proper communication, the request should include an up-to-date timestamp.

The External Entity has at its disposal one business operation related to sending XML electronic documents to PUESC and three operations related to receiving XML electronic documents from PUESC:

- *AcceptDocument* – sending the XML document to PUESC,
- *GetNextDocument* - downloading a previously undownloaded document from PUESC within one month,
- *GetNextDocumentSisc* - downloading a previously undownloaded document from PUESC according to IdSisc,
- *GetDocuments* - download a set of documents from PUESC.

Drawing 6 Information flow in business operations WS_PULL



4.2.2.2.1 Sending the document to PUEESC

This operation is performed using the **AcceptDocumentRequest** method of the **WS_PULL.wsdl** interface. The information carrier (logical layer) is the "document" object described further in the specification and available in the **WS_CHANNEL.xsd** file. The main document can be only of the XML type, it can have attachments of the XML, PDF or other types.

After calling the **AcceptDocumentRequest** method, the response is sent back synchronously in the form of **AcceptDocumentResponse** – the response carrier is the "result" object described further in the specification and available in the **WS_CHANNEL.xsd** file.

4.2.2.2.2 Downloading a previously undownloaded document from PUEESC

This operation is performed by the **GetNextDocumentRequest** method of the **WS_PULL.wsdl** interface. The operation has one optional parameter (targetSystem) and queries the system to return another unretrieved document. The oldest undownloaded document in the month is

searched for along with attachments (if it has them). This method works in its own context, searching for a document by *idSiscROF* for a user with advanced access level or by *IdSeap* for a user with basic access.

The operation has a synchronous **GetNextDocumentResponse** response. The response medium is the "document" object described further in the specification and available in the *WS_CHANNEL.xsd* file. The response contains a logical attribute "hasNext", which evaluates to "true" if there are any documents to retrieve or "false" if all of them have been downloaded. If all documents have been received, the **GetNextDocumentResponse** will not contain the "document" object.

4.2.2.2.3 Downloading a previously undownloaded document from PUESC according to IdSisc

This operation is performed using the **GetNextDocumentSisc** method of the *WS_PULL.wsdl* interface.

This operation takes a single argument, **GetNextDocumentSiscRequest**, which is described further in the specification.

The operation has a synchronous **GetNextDocumentResponse** response. The response medium is the "document" object described further in the specification and available in the *WS_CHANNEL.xsd* file. The response contains a logical attribute "hasNext", which evaluates to "true" if there are any documents to retrieve or "false" if all of them have been downloaded. If all documents have been received, the **GetNextDocumentResponse** will not contain the "document" object.

Unlike the **GetNextDocument method**, the **GetNextDocumentSisc method** has no limitation to the month back, it downloads the oldest undownloaded document with attachments (if it has any) and extends the scope of **GetNextDocument** to filter by given *IdSisc*. This method works analogously to the mechanisms for changing the user's context on the Portal:

- Self-context – at the level of an individual. It is set when you specify *idSiscROF*, and *idSiscROP* and *idSiscP* are left empty.
- Context level 1 – at the level of the direct subject. It is set when you specify *idSiscROF* and *idSiscP*, and *idSiscROP* is left empty.
- Background Level 1 – at the agency level. It is set when you specify *idSiscROF* and *idSiscROP*, and *idSiscP* is left empty.
- Context level 2 – at the level of the entity represented by the agency. It is set when you specify *idSiscROF*, *idSiscROP* and *idSiscP*.

The user who authenticates by querying **GetNextDocumentSisc** using WS-Security must have permissions to the requested identifiers. Otherwise, the service responds with the error "B006 No permission to *idSiscROF/idSiscROP/idSiscP*".

4.2.2.2.4 Downloading a set of documents from PUESC

This operation is performed using the **GetDocuments method** of the WS_PULL.wsdl interface. This operation takes a single **GetDocumentsRequest argument**, which is described further in the specification.

The operation has a synchronous **GetDocumentsResponse**. The response medium is the "document" object described further in the specification and available in the WS_CHANNEL.xsd file.

This method allows you to download a set of documents on the basis of given criteria such as IdSisc identifier, unique document identifier (*sysRef*), unique identifier of the main document (*correlationSysref*), date range of assignment. This method allows you to define whether to download only undownloaded documents, only downloaded documents, or all documents. Each document is returned with attachments (if it has them). In order to download a specific document, the *sysRef* identifier should be used, while in the case of downloading documents that are the response of domain systems to the entity's document, the *correlationSysref* parameter should be supplemented with the *sysRef identifier* of the sent document.

There is a limitation within a single call that allows up to 100 messages to be returned at a time. During the call, you must provide one of the parameters *Sendid*, *sysRef*, *idDocSysZew*, or *correlationSysref*, or specify a date range that cannot be wider than 10 days. Optionally, dates can be accompanied by the following format: YYYY-MM-DDTHH:MM:SS.mmm. Milliseconds (m) are an optional parameter. There is a time limit for the entire operation: 180 seconds.

If not all documents are downloaded within this time, only the documents that have already been uploaded are returned, along with a notification that not all documents were successfully downloaded. The message reads:

"Too many documents. A timeout has occurred. Please narrow down your search criteria." /
"Too many documents. Timeout occurred. Please narrow the search criteria."

If all documents are returned, the message reads:

"All documents retrieved."

4.2.2.3 Data structures

The Third Party communicates with the SEAP system using the data structures specified in the WS_CHANNEL.xsd file. The fields of the structures depend on the direction of the information flow.

4.2.2.3.1 Sending the document to PUESC

The External Entity system must provide a "document" object to the **AcceptDocumentRequest method** that follows the following structure:

Table 6 Structure of the "document" object of the method *AcceptDocumentRequest*

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

Description of individual elements and attributes:

- */document* – the main element, which contains all other elements,
- */document/content* – an element containing the actual file to be delivered to the domain system, the main document can only be of XML type,
- */document/content/<value>* – binary content of the Base64 type,
- */document/content/@filename* – file name, character type with a maximum number of 128 characters,
- */document/content/@mime* – specifying the MIME type for the content (file), acceptable values are "application/xml",
- */document/attachments/* – a list of attachments besides the main document that should be sent together, e.g.: The External Entity's System wants to provide a signed XML file, but additionally there may be a PDF or other file as an attachment in the pair.
 - */document/attachments/content/@filename* - The filename (128 characters maximum).
 - */document/attachments/content/@mime* – file type (e.g. "application/xml", "application/pdf")
 - */document/attachments/content/<value>* – Base64 encoded string that is the binary content of the attachment
- */document/targetSystems/.../system* – a list of indications of domain systems to which the document should be sent.

In the synchronous **AcceptDocumentResponse** system, PUESC will return a "result" object that follows this structure:

Table 7 Response structure AcceptDocumentResponse

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

Description of individual elements and attributes:

- */result* – the main element, which contains all other elements,
- */result/sysRef* – a unique identifier of the document returned by PUESC to the External Entity's System with a maximum number of 256 characters.

In addition to the "result" object, an error may also be returned. A detailed description of the errors can be found in the subsection [4.2.2.3.5 Error information](#).

4.2.2.3.2 Downloading a previously undownloaded document from PUESC

The External Entity System can query PUESC for the next undownloaded document using the **GetNextDocumentRequest** method.

This method takes one *targetSystem* parameter, described below:

Table 8 Structure of the GetNextDocumentRequest targetSystem parameter

Element	Description	Repeatability	Type
targetSystem	Domain system ID. The list of available values is described by the <i>targetSystemsType</i> type.	0..1	string

The method will return the next, oldest in a month, undownloaded document for the user who has permission to read this document and from whom *WS-Security authorization* was performed.

The synchronous response to the above query is **GetNextDocumentResponse**, which returns an object of type "document" together with attachments (if it has them) in the same way as in the case of service by PUESC. Fields of the "structuredocument" are filled in as described in chapter [4.2.2.3.1 Sending the document to PUESC](#).

The response contains a logical attribute "hasNext", which takes the value "true" (if there are any documents to download) or "false" (if all of them have been downloaded). If all documents have been received, the **GetNextDocumentResponse** will not contain the "document" object.

GetNextDocumentResponse structure:

Table 9 *GetNextDocumentResponse* structure

Element / Attribute	Repeatability	Type
document	1	documentType
hasNext	1	Boolean

4.2.2.3.3 Downloading a previously undownloaded document from PUESC according to IdSisc

The External Entity System can query PUESC for the next (oldest) undownloaded document according to IdSisc using the **GetNextDocumentSisc** method. This method takes one parameter, **GetNextDocumentSiscRequest**, described below:

Table 10 *GetNextDocumentSiscRequest* parameter structure

Element	Description	Repeatability	Type
idSiscROF	Identifier of the user (natural person) within the Customs Information System.	0..1*	string
idSiscROP	User identifier (intermediary entity) within the Customs Service Information System.	0..1*	string
idSiscP	user (entity) identifier within the Customs Service Information System.	0..1*	string
targetSystem	Domain system identifier, the list of available values is described by the systemType type.	0..1	string
allEmployees	Should the documents of all employees be returned? A list of documents sent by all employees available to a user with the permission "View all communications sent/received on behalf of and on behalf of the Subject by all authorized persons"	0..1	Boolean

* if none of the idSiscROF/idSiscROP/idSiscP fields are provided, the idSiscROF value will be automatically assigned based on the user authenticating with WS-Security

The synchronous response to the above query is **GetNextDocumentResponse** - identical to the GetNextDocument method . The response contains a logical attribute "hasNext", which is set to "true" if there are still documents to download, or "false" if all of them have been downloaded. If all documents have been received, the **GetNextDocumentResponse** will not contain the "document" object.

GetNextDocumentResponse structure:

Table 11 *GetNextDocumentResponse* structure

Element / Attribute	Repeatability	Type
document	1	documentType
hasNext	1	Boolean

The user who authenticates by querying **GetNextDocumentSisc** using WS-Security must have permissions on the provided identifiers. Otherwise, the service will respond with an error.

4.2.2.3.4 Downloading a set of documents from PUESC

The External Entity's system can query PUESC for a set of documents using the **GetDocuments** method. This method takes one parameter, **GetDocumentsRequest**, described below:

Table 12 *GetDocuments* parameter structure of *GetDocuments*

Element	Description	Repeatability	Type
idSiscROF	User (natural person) identifier within the Customs Information System	0..1*	string
idSiscROP	User identifier (intermediary entity) within the Customs Service Information System.	0..1*	string
idSiscP	User (entity) identifier within the Customs Information System.	0..1*	string
sysRef	Unique identifier of the document.	0..1	string
correlationSysref	The unique sysRef identifier of the associated main document.	0..1	string
Shipping ids	Shipping ID.	0..1	string
idDocSysZew	Own number.	0..1	string
idCases	Case ID.	0..1	string
dateFrom	The start of the date range for the document's ship-to-date date. Optionally, you can include the time in the format: YYYY-MM-DDTHH:MM:SS.mmm. Milliseconds(m) are an optional parameter.	0..1**	date
dataDo	The end of the date range for the document's ship-to-date date. Optionally, you can include the time in the format: YYYY-MM-	0..1**	date

Element	Description	Repeatability	Type
	DDTHH:MM:SS.mmm. Milliseconds(m) are an optional parameter.		
Downloaded	0 - Downloaded and undownloaded documents, 1 - Downloaded documents only, 2 (default) - Undownloaded documents only.	0..1	Integer
targetSystem	Domain system identifier, the list of available values is described by the systemType	0..1	string
allEmployees	Should the documents of all employees be returned? A list of documents sent by all employees available to a user with the permission "View all communications sent/received on behalf of and on behalf of the Subject by all authorized persons"	0..1	Boolean

* if none of the idSiscROF/idSiscROP/idSiscP fields are provided, the idSiscROF value will be automatically assigned based on the user authenticating with WS-Security

** the date range cannot be wider than 10 days, and it is mandatory to define it in the query if the parameters idSend, sysRef, idDocSysZew or correlationSysref are not specified

The user who authenticates by querying **GetDocuments** using WS-Security must have permissions to the provided identifiers. Otherwise, the service will respond with an error.

The synchronous response to the above query is a collection of elements of type "document". Each document is returned with attachments (if it has them).

Fields of the "structuredocument" will be filled in as described in Chapter No. [4.2.2.3.1 Sending the document to PUESC](#).

There is a time limit for the entire operation: 180 seconds.

If all documents cannot be retrieved within this time, only those documents that have already been loaded are returned, along with the information that not all documents were successfully downloaded, up to a maximum of 100 messages will be returned from the service.

The message reads:

"Too many documents. A timeout has occurred. Please narrow down your search criteria." /

"Too many documents. Timeout occurred. Please narrow the search criteria."

If all documents are returned, the message reads:

"All documents retrieved."

4.2.2.3.5 Error information

Data structures for business and technical errors:

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

Both structures consist of the following elements:

- /error – main element
- /error/errorCode – error ID
- /error/errorDesc – error description

For the direction of information flow from the External Entity System to the PUESC system, the PUESC system may respond with the following errors:

1. businessErrorType **business errors**:

Table 13 WS_PULL Business Error Catalog

Error code	Description
B006	incorrect input parameters, e.g.: <i>No permission to idSiscROF/idSiscROP/idSiscP</i> - when the user does not have permission to a given identifier; permissions are verified in all methods that allow downloading documents from SEAP <i>At least one of idSisc needs to be provided</i> - when none of the identifiers idSiscROF/idSiscROP/idSiscP is specified for the GetNextDocumentSisc method in the query <i>DataOd and DataDo must be defined and must be limited up to 10 days period</i> - if the parameter idSend, sysRef, idDocSysZew or correlationSysref is not specified for the GetDocuments method and the time period for searching documents has not been defined <i>DataOd cannot be later than DataDo</i> - if the start date is later than the end date for the GetDocuments method <i>Period between DataOd and DataDo must be limited up to 10 days</i> - if a date range has been defined for the search, but it exceeds the acceptable range, i.e. 10 days - Incorrect 'downloaded' parameter value. Use: 0 - All; 1 - only downloaded; 2 - (default) only not downloaded – incorrect value of the 'downloaded' attribute
B007	Incorrect attachments sent with the document - Wrong documents attachment mime type. – incorrect mime type of attachment <i>Documents attachment size is exceeded.</i> - Too large size of a single attachment - Summary documents attachments size is exceeded. - too large size of all attachments

Error code	Description
	Documents attachments count is exceeded. - too many attachments
B010	<i>Service unavailable. The SEAP system is in Emergency Mode. Please try again later. -</i> Service unavailable. The SEAP system works in emergency mode. Please try again later.

2. technical errors of the **techErrorType** type:

Table 14 Technical Error Notes WS_PULL

Error code	Description
E001	<i>base64 payload is malformed or empty</i>
E003	<i>other error - an error of a different kind, e.g.:</i> - Filename is empty. Document will not be processed. – Missing value for 'filename' attribute <i>PDR not available. Please try again later</i> - in case the attempt to retrieve permissions to the idSiscROF/idSiscROP/idSiscP identifiers fails due to the lack of connection to the PDR system. <i>CRKiD not available. Please try again later</i> – in case of lack of availability, the CRKiD system
E004	MimeType is empty. Document will not be processed. - no declared MIME type
E005	<i>Internal communication. Please try again later</i> - communication error with the internal webservice responsible for user authorization.
E007	<i>Problems while processing content or no active XSD schema for current document.</i> – The uploaded XML document is not correct or there is no XSD schema defined in the system for the uploaded document.
E008	<i>PDR system error</i> – Error retrieving data from the PDR system
E010	<i>Internal error. Please try again later.</i> – Technical error when accepting a message in safe mode
E011	Limit of simultaneous connections to the SEAP system exceeded. Messages for possible cases: - Global system limit for AcceptDocument service is exceeded now. Please try again later. - Global system limit for GetDocuments services is exceeded now. Please try again later. - Per target system limit for AcceptDocument service is exceeded now. Please try again later. - Per user limit for AcceptDocument service is exceeded now. Please try again later.

Error code	Description
	Per user limit for GetDocuments services is exceeded now. Please try again later. Limits on the number of connections can be defined by SEAP system administrators in situations of increased traffic on the webservice interface.

REMARK!

If the Subject does not expect a response from PUESC, it should not query the WS_PULL interface more often than once every 5 minutes. If this interface is unreasonably loaded with the Subject's application, steps may be taken to restrict access/traffic for that Entity.

4.2.2.4 Parameters for uploaded documents

The following are general restrictions on sending documents via the non-visual channel of WebService:

- the maximum number of XML documents sent per request is 1,
- the maximum size of the main XML document sent as part of a single request is 15 MB, including attachments included in the message.
- the maximum number of attachments to an XML document sent in a single request is 1,
- the maximum size of an attachment attached to a document is 15 MB.

NOTE: Limits on the size and number of document attachments may vary depending on the configuration of the document schema.

If the message is to be signed via ePUAP, its size should be limited to 10MB (instead of 15MB) due to limitations on the part of the ePUAP service.

4.2.3 Direction from PUESC to an External Entity

4.2.3.1 WS metric

Table 15 WS_PUSH service metric

Attribute	Description
Description	WS_PUSH
Type	Web service
Call Type	On demand
Service Mode	Synchronous

Attribute	Description
Operations and methods	AcceptDocument
Operation Details	The PUSH WebService channel includes the operation of transferring the document from SEAP to the external entity's system. The service communicates with the third-party system.
Comments	Lack

4.2.3.2 Business operations

The PUESC System may carry out business operations of delivering a document to the External Entity's System by calling a service implemented on its side in accordance with the *WS_PUSH.wsdl specification*, and then sending the document to the External Entity's System, e.g. to the URL <https://example.com/wsImpl/DocumentHandlingSvc>

REMARK!

The PUESC System may send to the External Entity System only if the following conditions are met:

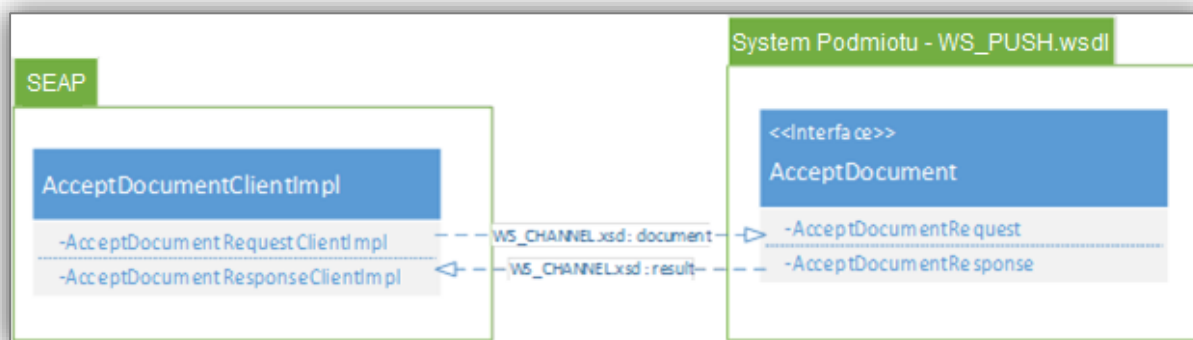
1. The Representative of the External Entity has registered the URL address of the service, login and password in the SZPROT System (eClient service) with an appropriate registration application. The URL, login and password provided during registration will be used if the Third Party wishes to deliver the service in this mode. The *WebService* login will be used in the *WS-Security* profile as *the Username*, and the password will be used for *the PasswordDigest* mode.

If the URL provided during registration in SZPROT contains *the https protocol*, then the fingerprint of the Third Party SSL certificate provided during registration with SZPROT will be taken into account during delivery and will be checked against the current fingerprint of the certificate just before the actual connection. In the event of non-compliance of the fingerprints, the PUESC System will not send the impression to an external service.

2. The External Entity's system has a globally trusted SSL certificate installed, as long as the URL provided during registration in SZPROT contains *the https protocol*. The PUESC system will not send to an external service with an invalid, unverified SSL certificate. If a URL without an SSL extension (e.g. *http://*) is provided, the Third Party bears the risk of transparency of the transmission.
3. The External Entity's system must have open traffic at the entrance to receive documents from PUESC. The MF address is 145.237.0.0/16.

PUESC has at its disposal one business operation in relation to the External Entity System: "sending a document".

Drawing 7 Information flow in business operations WS_PUSH



4.2.3.2.1 Sending a document via PUESC

This operation is performed using the **AcceptDocumentRequest** method of the *WS_PUSH.wsdl* interface.

The information carrier (logical layer) is the "document" object with attachments (if it has them) described further in the specification and available in the *WS_CHANNEL.xsd* file.

When the **AcceptDocumentRequest** *method is called, the* response is sent back synchronously in the form of **an AcceptDocumentResponse**. The response is the "result" object described further in the specification and available in the *WS_CHANNEL.xsd* file. The returned document is automatically marked as 'downloaded', which means that it will not be returned via **the GetNextDocument / GetNextDocumentIdSisc** methods via the *WS_PULL* service.

4.2.3.3 Data structures

PUESC communicates with the External Entity's system by means of data structures specified in the *WS_CHANNEL.xsd* file, the fields of the structures depend on the direction of information flow.

4.2.3.3.1 Sending a document via PUESC

PUESC will provide the interface with a "document" object to the **AcceptDocumentRequest** *method* according to the following structure:

Table 16 Structure of the "document" object of the *AcceptDocumentRequest* method

Element / Attribute	Repeatability	Type
document	1	documentType
-Content	1	contentType

Element / Attribute	Repeatability	Type
- 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 individual elements and attributes:

- */document* – the main element, which contains all other elements,
- */document/content* – an element containing the actual file to be delivered to the customs system, the main document can only be of XML type,
- */document/content/<value>* – binary content of the Base64 type,
- */document/content/@filename* – file name, character type with a maximum number of 128 characters,
- */document/content/@mime* – specifying the MIME type for the content (file), acceptable values are "application/xml",
- */document/dispatchId* – the PUESC system fills in this field with the shipment identifier from CRKiD,
- */document/caseId* – the PUESC system optionally fills this field with the case identifier from CRKiD,
- */document/personSISC* – the PUESC system fills in this field with the SISC identifier of the person (physical representative) to whom the document with */document/content* is addressed,
- */document/middleSISC* – the PUESC system fills in this field with the SISC identifier of the intermediary, e.g. the agency in the context of which the document appears,
- */document/endSISC* – the PUESC system fills in this field with the identifier of the represented entity in the context of which the message occurs,

- `/document/attachments` – a list of attachments apart from the main document that should be sent together, e.g.: The PUESC system wants to provide a signed XML file, but additionally the pair can include a PDF file or another file as an attachment:
 - `/document/attachments/content@filename` - The filename (up to 128 characters).
 - `/document/attachments/content/@mime` – file type (e.g. "application/xml", "application/pdf")
 - `/document/attachments/content/<value>` – Base64 encoded string that is the binary content of the attachment
- `/document/targetSystems/.../system` – PUESC system fills in this field with the value "ENTITY"

In the synchronous **AcceptDocumentResponse response**, the External Entity's system will send a "result" object to PUESC according to the following structure:

Table 17 AcceptDocumentResponse "result" structure

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

Description of individual elements and attributes:

- `/result` – the main element, which contains all other elements,
- `/result/sysRef` – a unique identifier of the document returned from the External Entity System to PUESC with a maximum number of 256 characters.

In the **AcceptDocumentResponse response**, the Third-Party System returns the sysRef reference number. It is required to use the following extensions: WS-Addressing (MessageID header is required) and WS-Security with a different than standard way of sending the password hash (PasswordDigestExt) described below

4.2.3.3.2 Error information

Data structures for business and technical errors:

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

Both structures consist of the following elements:

`/error` – main element

`/error/errorCode` – error ID

`/error/errorDesc` – error description

For the direction of information flow from the PUESC system to the External Entity's system, the External Entity's system may respond with the following errors:

1. `businessErrorType` **business errors** are ignored
2. technical errors of the **techErrorType** type:

Table 18 Technical Error Catalog WS_PUSH

Error code	Description
E001	<i>malformed base64 content</i> - the content is not encoded in Base64 format
E002	<i>mime does not match with content</i>
E003	<i>other error</i> - an error of a different kind

If a technical error of the *E00x* type occurs, the PUESC System will consider the document as undelivered, just as if it had received a response *HTTP_404* from the External Entity's system.

If PUESC has not delivered the message to the Entity or if the Entity has not received it, it is possible to download it using the WS_PULL channel (methods: *GetNextDocument*, *GetNextDocumentSisc*, *GetDocuments*).

4.2.4 Collection of Third Party Data

4.2.4.1 Service metrics

Table 19 WS_INFO service metric

Attribute	Description
Description	WS_INFO
Type	WebService
Call Type	On demand
Service Mode	Synchronous
Operations and methods	- RepresentativeOfSubject - RepresentativeSubjects - SubjectData - SubjectDetails
Operation Details	The INFO WebService feed includes methods for retrieving Third Party data.
Comments	lack

4.2.4.2 Business operations

The External Entity may carry out business operations using the *WS_INFO.wsdl* interface, made available by PUESC. An External Entity using this interface can communicate:

- with the production PUESC system via the URL:
https://ws.puesc.gov.pl/seap_wsChannel/SubjectInformationPort?wsdl,
- and in the test environment by the URL respectively:
https://te-ws.puesc.gov.pl/seap_wsChannel/SubjectInformationPort?wsdl

The External Entity has at its disposal the following operations:

- *RepresentativeOfSubject* - download the list of representatives of the External Entity,
- *RepresentativeSubjects* – downloading the list of represented External Entities,
- *SubjectData* - downloading the data of the External Entity,
- *SubjectDetails* – downloading the details of the External Entity.

4.2.4.2.1 Download the list of Third Party representatives

This interface allows you to download the list of representatives of the External Entity based on the provided SISC context in the form: idSiscROF, idSiscP and idSiscROP. The idSiscP and idSiscROP parameters are passed directly in the call parameters, while the idSiscROF is calculated on the basis of the authorization data provided during the service call.

This operation is performed using the ***RepresentativeOfSubjectRequest*** method of the *WS_INFO.wsdl* interface.

When the ***RepresentativeOfSubjectRequest*** method is called, the response is sent back synchronously in the form of ***RepresentativeOfSubjectResponse***.

4.2.4.2.2 Downloading a list of represented Third Parties

This interface allows you to download the list of represented External Entities based on the provided SISC context in the form of: idSiscROF and idSiscROP. The idSiscROP parameter is passed directly in the call parameters, while the idSiscROF is calculated on the basis of authorization data provided when the service is called.

This operation is performed by the ***RepresentativeSubjectsRequest*** method of the *WS_INFO.wsdl* interface.

When the ***RepresentativeSubjectsRequest*** method is called, the response is sent back synchronously in the form of ***RepresentativeSubjectsResponse***.

4.2.4.2.3 Downloading Third Party Data

This interface allows you to download the basic data of the External Entity based on the provided SISC context in the form of: idSiscROF, idSiscP and idSiscROP. The idSiscP and idSiscROP parameters are passed directly in the call parameters, while the idSiscROF is calculated on the basis of the authorization data provided during the service call.

This operation is performed by the **SubjectDataRequest** method of the *WS_INFO.wsdl* interface.

When the SubjectDataRequest **method is called**, the SubjectDataResponse is **sent back synchronously**.

4.2.4.2.4 Download Third Party Details

This interface allows you to download detailed data of the External Entity based on the provided SISC context in the form of: idSiscROF, idSiscP and idSiscROP. The idSiscP and idSiscROP parameters are passed directly in the call parameters, while the idSiscROF is calculated on the basis of the authorization data provided during the service call.

This operation is performed by the **SubjectDetailsRequest** method of the *WS_INFO.wsdl* interface.

When the SubjectDetailsRequest **method is called**, the response is sent back synchronously in the form of a **SubjectDetailsResponse**.

4.2.4.3 Data structures

The External Entity communicates with the SEAP system using the data structures specified in the *WS_CHANNEL.xsd* and *WS_INFO.wsdl* files. The fields of the structures depend on the direction of the information flow.

4.2.4.3.1 Download the list of Third Party representatives

The External Party's system must pass the following parameters as part of the **RepresentativeOfSubjectRequest** message :

Table 20 RepresentativeOfSubjectRequest service parameters

Element / Attribute	Repeatability	Type
idSiscROP	0..1	string
idSiscP	1	string

In the synchronous **RepresentativeOfSubjectResponse system**, the PUESC system will return a "RepresentativeSubject" object according to the following structure:

Table 21 RepresentativeOfSubjectResponse structure

Element / Attribute	Repeatability	Type
Entity Representative	0..*	Entity Representative

Element / Attribute	Repeatability	Type
- @typReprezentanta	1	string
- @idSiscReprezentant	1	string
- @idSiscP	1	string
- SubjectIdentifiable Data	0..1	Entity Identification Data
- @nazwaPelna	1	string
- @nazwaSktrocona	1	string
- @nip	0..1	string
- @regon	0..1	string
- @nrKrs	0..1	string
- @eori	0..1	string
- @eoriOd	0..1	date
- @eoriDo	0..1	date
- @nrTc	0..1	string
- @formaPrawnaKod	0..1	string
- @formaPrawnaNazwa	0..1	string
- @formaDzialGospKod	0..1	string
- @formaDzialGospNazwa	0..1	string
- @rodzajPodmiotuKod	1	string
- @rodzajPodmiotuNazwa	0..1	string
- @dataRozpoczeciaGosp	0..1	date
- @dataZawieszeniaGosp	0..1	date
- @dataWznowieniaGosp	0..1	date
- @dataRejestracjiDanych	0..1	date
- @jezyk	1	string
- First NameLast Name	0..99	First NameLast Name
- @imie	1	string

Element / Attribute	Repeatability	Type
- @nazwisko	1	string
- VATUE	0..99	VATEU
- @nrVatUe	1	string
- PKD code	0..99	PKD code
- @kod	1	string
- IdentifiableOsFiz	0..1	IdentificationDataOsFiz
- @obywatelstwo	0..1	string
- @pesel	0..1	string
- @nrIdentyfikacyjny	0..1	string
- @imie	1	string
- @nazwisko	1	string
- @dokTozKod	0..1	string
- @dokTozNazwa	0..1	string
- @nrDokToz	0..1	string
- @dataUrodzenia	0..1	date
- @eori	0..1	string
- @eoriOd	0..1	date
- @eoriDo	0..1	date
-Representation	1	Representation
- @formaReprezentacjiKod	1	string
- @formaReprezentacjiNazwa	0..1	string
- @waznaOd	1	date
- @waznaDo	0..1	date
- PermissionExtended	0..99	PermissionExtended
- @kod	1	string
- @opis	0..1	string

Element / Attribute	Repeatability	Type
- ActionPermission	0..99	ActionPermission
- @kod	1	string
- @opis	0..1	string
- SystemPermission	0..99	SystemPermission
- @systemKod	1	string
- @przedstawicielstwoKod	0..1	string
- @przedstawicielstwoNazwa	0..1	string
- @wazneOd	1	date
- @wazneDo	0..1	date

A description of individual elements has been attached to the WSDL specification in Polish and English.

4.2.4.3.2 Downloading a list of represented Third Parties

The External Party's system must pass the following parameters as part of the **RepresentativeSubjectsRequest** message :

Table 22 RepresentativeSubjectsRequest service parameters

Element / Attribute	Repeatability	Type
idSiscROP	0..1	string

In the synchronous **RepresentativeSubjectsResponse response**, the PUESC system will return a list of "RepresentativeSubjectsResponse" objects according to the following structure:

Table 23 RepresentativeSubjectsResponse "SubjectsRepresented" response structure

Element / Attribute	Repeatability	Type
EntityRepresented	0..*	EntityRepresented
- @idSiscP	1	string
- @idSiscReprezentant	1	string

Element / Attribute	Repeatability	Type
- @nazwaPelna	1	string
- @nazwaSktrocona	1	string
- @nip	0..1	string
- @regon	0..1	string
- @eori	0..1	string
-Representation	1	Representation
- @formaReprezentacjiKod	1	string
- @formaReprezentacjiNazwa	0..1	string
- @waznaOd	1	date
- @waznaDo	1	date
- PermissionExtended	0..99	PermissionExtended
- @kod	1	string
- @opis	0..1	string
- ActionPermission	0..99	ActionPermission
- @kod	1	string
- @opis	0..1	string
- SystemPermission	0..99	SystemPermission
- @systemKod	1	string
- @przedstawicielstwoKod	0..1	string
- @przedstawicielstwoNazwa	0..1	string
- @wazneOd	1	date
- @wazneDo	0..1	date

A description of individual elements has been attached to the WSDL specification in Polish and English.

4.2.4.3.3 Downloading Third Party Data

The Third Party system must pass the following parameters as part of the **SubjectDataRequest** message :

Table 24 Service Parameters SubjectDataRequest

Element / Attribute	Repeatability	Type
idSiscROP	0..1	string
idSiscP	1	string

In a synchronous **SubjectDataResponse**, the PUESC system will return a "Subject" object according to the following structure:

Table 25 SubjectDataResponse "Subject" Response Structure

Element / Attribute	Repeatability	Type
Subject	0..1	Subject
- @idSiscP	1	string
- @status	1	string
- SubjectIdentifiable Data	1	IdentifierIdentifierString
- @nazwaPelna	1	string
- @nazwaSzkrocona	1	string
- @nip	0..1	string
- @regon	0..1	string
- @nrKrs	0..1	string
- @eori	0..1	date
- @eoriOd	0..1	date
- @eoriDo	0..1	string
- @nrTc	0..1	string
- @formaPrawnaKod	0..1	string
- @formaPrawnaNazwa	0..1	string

Element / Attribute	Repeatability	Type
- @formaDzialGospKod	0..1	string
- @formaDzialGospNazwa	0..1	string
- @rodzajPodmiotuKod	1	string
- @rodzajPodmiotuNazwa	0..1	date
- @dataRozpoczeciaGosp	0..1	date
- @dataZawieszeniaGosp	0..1	date
- @dataWznowieniaGosp	0..1	date
- @dataRejestracjiDanych	0..1	string
- @jezyk	1	First NameLast Name
- First NameLast Name	0..99	string
- @imie	1	string
- @nazwisko	1	VATEU
- VATUE	0..99	string
- @nrVatUe	1	PKD code
- PKD code	0..99	string
- @kod	1	

A description of individual elements has been attached to the WSDL specification in Polish and English.

4.2.4.3.4 Download Third Party Details

The Third Party System must pass the following parameters as part of the **SubjectDetailsRequest** message:

Table 26 Service Parameters SubjectDetailsRequest

Element / Attribute	Repeatability	Type
idSiscROP	0..1	string
idSiscP	1	string

In the synchronous **SubjectDetailsResponse** system, the PUESC system will return an "ExtendedEntity" object according to the following structure:

Table 27 Response structure SubjectDetailsResponse

Element / Attribute	Repeatability	Type
Extended Entity	0..1	Extended Entity
- @idSiscP	1	string
- @status	1	string
- SubjectIdentifiable Data	1	Entity Identification Data
- @nazwaPelna	1	string
- @nazwaSktrocona	1	string
- @nip	0..1	string
- @regon	0..1	string
- @nrKrs	0..1	string
- @eori	0..1	string
- @eoriOd	0..1	date
- @eoriDo	0..1	date
- @nrTc	0..1	string
- @formaPrawnaKod	0..1	string
- @formaPrawnaNazwa	0..1	string
- @formaDzialGospKod	0..1	string
- @formaDzialGospNazwa	0..1	string
- @rodzajPodmiotuKod	1	string
- @rodzajPodmiotuNazwa	0..1	string
- @dataRozpoczeciaGosp	0..1	date
- @dataZawieszeniaGosp	0..1	date
- @dataWznowieniaGosp	0..1	date

Element / Attribute	Repeatability	Type
- @dataRejestracjiDanych	0..1	date
- @jezyk	1	string
- First NameLast Name	0..99	First NameLast Name
- @imie	1	string
- @nazwisko	1	string
- VATUE	0..99	VATEU
- @nrVatUe	1	string
- PKD code	0..99	PKD code
- @kod	1	string
- AddressData	1..9	AddressDetails
- @rodzajKod	1	string
- @rodzajNazwa	0..1	string
- @krajKod	1	string
- @krajNazwa	0..1	string
- @wojewodztwoKod	0..1	string
- @wojewodztwoNazwa	0..1	string
- @powiatKod	0..1	string
- @powiatNazwa	0..1	string
- @gminaKod	0..1	string
- @gminaNazwa	0..1	string
- @miescowoscKod	0..1	string
- @miescowoscNazwa	1	string
- @kodPocztowy	1	string
- @poczta	0..1	string
- @skrytkaPocztowa	0..1	string
- @ulicaKod	0..1	string

Element / Attribute	Repeatability	Type
- @ulicaNazwa	0..1	string
- @nrDomu	0..1	string
- @nrLokalu	0..1	string
- @telefon	1	string
- @telefonSMS	0..1	string
- @fax	0..1	string
- @email	1	string
- @adresEPUAP	0..1	string
- Areas of activity	0..99	Areas of activity
- @kod	1	string
- @nazwa	0..1	string
- Bank Accounts	0..9	Bank Accounts
- @rodzajKontaKod	1	string
- @rodzajKontaNazwa	0..1	string
- @typKontaKod	1	string
- @typKontaNazwa	0..1	string
- @iban	1	string
- @nrKonta	1	string
- @nazwaBanku	1	string
- @swiftBic	1	string
- DedicatedContact	0..99	DedicatedContact
- @zastosowanieKod	1	string
- @zastosowanieNazwa	0..1	string
- @telefon	0..1	string
- @email	0..1	string
- Statement	0..99	Disclaimer

Element / Attribute	Repeatability	Type
- @oswiadczenieKod	1	string
- @oswiadczenieNazwa	0..1	string
- @zaakceptowane	1	Boolean
- Branches	0..99	Branches
- @nazwaPelna	1	string
- @nip	0..1	string
- @regon	0..1	string
- @nrKrs	0..1	string
- Branch Address	0..9	Branch Address
- @rodzajKod	1	string
- @rodzajNazwa	0..1	string
- @krajKod	1	string
- @krajNazwa	0..1	string
- @wojewodztwoKod	0..1	string
- @wojewodztwoNazwa	0..1	string
- @powiatKod	0..1	string
- @powiatNazwa	0..1	string
- @gminaKod	0..1	string
- @gminaNazwa	0..1	string
- @miejscowoscKod	0..1	string
- @miejscowoscNazwa	1	string
- @kodPocztowy	1	string
- @poczta	0..1	string
- @skrytkaPocztowa	0..1	string
- @ulicaKod	0..1	string
- @ulicaNazwa	0..1	string

Element / Attribute	Repeatability	Type
- @nrDomu	0..1	string
- @nrLokalu	0..1	string
- @telefon	1	string
- @telefonSMS	0..1	string
- @fax	0..1	string
- @email	1	string
- @adresEPUAP	0..1	string
- CommunicationChannel	0..99	CommunicationChannel
- @kanalKod	1	string
- @kanalNazwa	0..1	string
- @system	1	string
- @waznyOd	0..1	date
- @waznyDo	0..1	date
- @adres	0..1	string
- @odciskPalca	0..1	string

A description of individual elements has been attached to the WSDL specification in Polish and English.

4.3 Email Channel

One of the channels of communication with external entities is the e-mail channel. It is a non-visual communication channel that allows you to receive and send electronic documents in the form of e-mail messages.

In order to enable the transfer of electronic documents to the SEAP system and the sending of electronic documents from the SEAP system in the form of e-mails, a dedicated e-mail box has been created and made available.

4.3.1 Direction from the External Entity to PUESC

4.3.1.1 Service metrics

Table 28 EMAIL CHANNEL service metrics

Attribute	Description
Description	EMAIL CHANNEL
Type	email
Call Type	On demand
Service Mode	Asynchronous
Operations and methods	- Receive - Send
Operation Details	A non-visual communication channel that allows electronic documents to be received and sent as e-mail messages. Note: This form of communication, unlike WebService, does not ensure data confidentiality.
Comments	Lack

4.3.1.2 E-mail inbox

The name of the production email box is: puesc@puesc.mf.gov.pl (alternatively: puesc@mf.gov.pl)

The name of the test email inbox is: puesc@te-puesc.mf.gov.pl (alternatively: test.puesc@mf.gov.pl)

PUESC mail servers perform anti-spam filtering (m.in. checking RBL lists, filtering the content of messages based on anti-spam signatures) and anti-virus filtering.

Therefore, and taking into account the possibility of the existence of similar protections on the part of the infrastructure of the Entities, it should be borne in mind that this method does not always guarantee the delivery of the message. In order to minimize undesirable situations, please report to your e-mail service providers the need to add exceptions to the anti-spam rules for the address pool 145.237.192.0/27, in which the SMTP gateways of the Ministry of Finance are located.

4.3.1.3 Attachments

SEAP supports two types of files that can be sent by third parties as email attachments. These are:

1. **XML** – an XML document attached to an e-mail message,
2. **ZIP** – a zipped file (archive) attached to an e-mail message containing XML documents.

REMARK!

In a zipped *ZIP* file, the XML documents must be directly in the *ZIP* archive, they cannot be in a directory.

The SEAP system supports XML messages encoded in the following standards: UTF-8, UTF-16, Windows-1250.

4.3.1.4 Parameters for email attachments

Due to the specificity of communication via the e-mail channel, the following parameters have been defined in the SEAP system for e-mail attachments (the e-mail attachment in this case is an XML message or packed XML messages):

- the maximum number of *XML* documents attached to an e-mail message is 10 files,
- the maximum size of *the XML document* is 10 MB, including attachments included in the announcement.

4.3.1.5 Validate emails

The system validates emails according to the following rules.

1. Validating the sender's email address

The PUESC system processes documents sent via e-mail from both registered and unregistered addresses and this is conditioned by administrative settings.

In the case of messages handling only registered addresses, it is checked whether the sender's address corresponds to the e-mail address of the user registered in the PUESC system. If the sender's address is consistent, the system sends back information about the correct or incorrect acceptance of the document, and also sends all registered UPP/NPP technical messages to the registered user's address.

In the case of unregistered addresses, it is checked whether the configuration of a specific message type allows the possibility of sending documents from addresses other than the registered one. Only technical messages informing about the success or failure of receipt of documents by the PUESC system are sent back to the e-mail address used to send the form. The user account is taken from the signature based on the identifier of the natural person (idSiscROF) or by means of xPath expressions referring to individual sections of the message being sent (XML file).

Success feedback is constructed as follows using system parameters:

"[email.message.status.ok][email.message.status.end]"

Feedback in the event of failure is constructed as follows using system parameters:

```
"[email.message.status.error]([email.message.status.error.subject]/[email.message.status.error.sender]/[email.message.status.error.attachment.count]/[Attachment problem <attachment name>, code: <error code>, message: <error description>]/[Attachment problem - <error message>])[email.message.status.end]"
```

2. Validate email parameters

The SEAP system verifies the subject of the e-mail, the file name of the attachment and the names of the files in the attachment (if the attachment is a zipped *ZIP file*).

The subject of the e-mail message must not be empty, the filenames must not contain Polish characters and should end with one of the extensions: .xml, .zip.

3. Check the attachment to the XSD schema

When you process an email in SEAP, it checks the XML document attached to the email against the XSD schema. XML messages must comply with the schemas of documents processed by PUESC.

4.3.1.6 Data structures

XML business messages are placed directly in the e-mail message as attachments. The structure of messages informing about the status of receipt and delivery of documents is described in chapter [4.1.2 Structure and information content of messages](#).

4.3.1.7 Error information

After the email is processed, an informational email is sent back to the sender. Several feedback messages are available depending on the status of the message being processed.

If processed correctly, the

- OK – information that all documents have been correctly received by the system

If an error occurs

- "No subject or subject contains illegal characters." – Problem with the subject of the message
- "Sending a document is possible only from an e-mail address registered in the PUESC system" – The document scheme does not allow sending from another e-mail account and no user with an e-mail address matching the sender's address was found in the system.
- "too many attachments sent" – There are too many attachments in the email.
- "too large file size" – The file size in the attachment is too large.
- "Invalid file extension" – The content type of the attachment is not specified.

- "missing XSD schema for document" – the attachment contains an unsupported XML document
- "The file is empty or has errors in the xml syntax" – the attachment contains an empty or incorrect XML document
- "missing SISC in document signature" – If sending an email from another account: SISC ID not found in email signature.
- "no user data in the PUESC system for the SISC identifier used to sign the document" – In the case of sending an e-mail from another account: no user was found for the SISC identifier included in the message signature.
- "Schema configuration does not allow sending via EMAIL channel" - message with the key "no_matching_email_channel" in the "tresci_bledow" table informing that the message is not configured to be handled in the EMAIL channel

A reply is not bounced if you receive a message with no or no attachments of the wrong type.

4.3.2 Direction from PUESC to an External Entity

4.3.2.1 Service metrics

See chap. [4.3.1.1 Service metrics](#).

4.3.2.2 E-mail inbox

E-mails sent by the SEAP system are sent from the noreply@puesc.mf.gov.pl e-mail inbox <mailto:noreply@puesc.mf.gov.pl>, and the name of the e-mail sender is set to *PUESC*.

When using the SEAP test environment, emails are sent from the no-reply@te-puesc.mf.gov.pl email inbox <mailto:no-reply@te-puesc.mf.gov.pl>

REMARK!

The SMTP protocol does not guarantee the delivery of the document
Additional information is included in the following message from the PUESC portal:

"Problems in email communication

The Ministry of Finance is signaled with problems related to receiving e-mails sent from PUESC. We would like to kindly inform you that these problems are very often caused by a lack of trust in MF servers (the so-called GreyList) and too low message quantity limits for a single sender, set for MF mail servers. This approach leads to delays in the delivery of correspondence to the inboxes of entities or results in the inability to receive messages.

If you experience the above problems related to receiving messages from PUESC, please report to your e-mail service providers the need to add exceptions to the anti-spam rules for the address pool 145.237.192.0/27, in which the SMTP gateways of the Ministry of Finance are located."

4.3.2.3 Email structure

E-mails with information about the acceptance of the message or with information about an error are sent by the SEAP system in text format, encoding in the UTF-8 standard.

Emails with an attachment are sent by the SEAP system in *HTML* format, encoded in *the UTF-8 standard*.

Currently, three types of attachments are sent, depending on the configuration of the schema and input documents:

- XML – sending back the main message or technical documents (UPP, UPD, NPP, NPD),
- PDF – if they were attached to the main message as attachments, they are sent together with the main document,
- HTML – converts the XML file based on the transformation into an HTML file and sends it back via e-mail channel.

5 E-Document support

The SEAP system provides the service of sending e-documents by users in two ways. Non-visual services and visual services (via the PUESC Portal). This chapter describes the use of non-visual services for the transmission of e-Documents.

E-documents can be sent via one of three input channels:

- WebService, details are described in the chapter: [4.2 WebService channel](#)
- Email, details are described in the chapter: [4.3 Email Channel](#)
- EPUAP

In the case of sending an e-document via one of the above channels, the e-Document must be wrapped with a dedicated business diagram attached in the form of Appendix No. 13. In the schema, the document is sent in binary (Base64) form.

Sample XML content:

```
<EDokument xmlns="http://www.mf.gov.pl/schematy/SEAP/e-
Dokumenty/EDokument/1.0.xsd"

  xsi:schemaLocation="http://www.mf.gov.pl/schematy/SEAP/e-
Dokumenty/EDokument/1.0.xsd schema.xsd"

nrOwn="string" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

  <Subject idsisc="ABCDEFGHJKLMNOPQ" abbreviatedname="string" />

  <EntityRepresenting idsisc="ABCDEFGHJKLMNOPQ" />

  <Representative idsisc="ABCDEFGHJKLMNOPQ" name="string" surname="string"
/>

  <Document numberCustom="string" code="ABCD" name="string"
informationAdditional="string" mimeType="string"
content="YTM0NZomIzI2OTsmIzM0NTueYQ==" />

</EDokument>
```

Once the e-Document is accepted by the non-visual service, the document will be processed in the same way as all other documents in the SEAP_SO process, with the exception of 2 additional steps:

- a) Saving an e-document to the "repository" of e-documents
- b) Notification of registration to the system responsible for a given type of container (in the case of completing the data with the addresses for the WS notification in the table)

It is also possible to invoke only a notification step and skip all other steps in the SEAP_SO process. In order to correctly trigger the notification, 3 process parameters are necessary:

- a) EDOC. MODE with a value of "N"
- b) EDOC. NUMBER with the e-document number
- c) EDOC. CODE with the e-document code

In the case of full functionality of the process (recording and notification), an appropriate UPP or NPP message is sent to the user, depending on the result of the operation. The final e-Document is registered on the user's account in accordance with the SISC context.

6 Safe mode

The PUESC system has implemented the functionality of operation in emergency mode. Depending on the input channel, starting the safe mode changes the behavior of the system in terms of sending and reading documents, which is described in the following subsections devoted to specific input channels. The emergency mode is activated independently for each of the input channels.

The Safe Mode is activated by the System Administrator, and after it is activated on the PUESC portal, the Administrator publishes an appropriate information message.

6.1 Safe Mode – WebService Channel

Within the WebService channel, the behavior of the following services is changing:

- WS_PULL - Direction from the External Entity to PUESC
 - Sending the document to PUESC

An accepted document in the safe mode is queued on PUESC servers, and its processing is resumed just after the safe mode is turned off. The response of the service in this case is the same as in the case of admission in the normal mode.

In the emergency mode, selected documents can be received, the processing of which can be postponed. For documents whose specificity requires immediate processing (their queuing does not make reasonable business sense), the service returns a system error with the code *B010 - Service unavailable. The SEAP system is in Emergency Mode. Please try again later.* In this case, you must resubmit the document after you turn off safe mode.

- Downloading a previously undownloaded document from PUESC

An operation while in safe mode is running in response to each request returns a system error code *B010 - Service unavailable. The SEAP system is in Emergency Mode. Please try again later.* In this situation, you must repeat the re-request after you turn off Safe Mode.

- Downloading a previously undownloaded document from PUESC according to IdSisc

An operation while in safe mode is running in response to each request returns a system error code *B010 - Service unavailable. The SEAP system is in Emergency Mode. Please try again later.* In this situation, you must repeat the re-request after you turn off Safe Mode.

- Downloading a set of documents from PUESC

An operation while in safe mode is running in response to each request returns a system error code B010 - Service unavailable. The SEAP system is in Emergency Mode. Please try again later. In this situation, you must repeat the re-request after you turn off Safe Mode.

Services and operations not listed above in failover continue unchanged.

6.2 Safe Mode – Email Channel

After starting the safe mode for the E-mail channel, the received documents are queued on PUESC servers, and their processing is resumed just after the safe mode is disabled. Each time an e-mail is received in the emergency mode, an additional e-mail message is sent to the sender's address with the information that the document has been received in the emergency mode, which may result in a delay in its processing.

In the safe mode, selected documents can be received, the processing of which can be postponed. For documents whose specificity requires immediate processing (their queuing does not make reasonable business sense), in response to the received e-mail, a reply is sent to the sender's address with the information that due to the system operating in failover mode, the document has not been received. Messages of this type will not be processed. The message must be resubmitted after the safe mode is turned off.

7 Attachments

Table 29 Attachments

Lp.	Attachment	Comments
1	WS_CHANNEL.xsd	XSD schema - definition of the content of an object used to convey a message.
2	UPO_XSD\schemeUPO.xsd	XSD scheme - definition of UPP/NPP and UPD/PND contents.
3	WS_PUSH.wsdl	WSDL specification of the interface from SEAP to External Entity
4	WS_PULL.wsdl	WSDL specification of the interface from the Third Party to the SEAP
5	examples\npp.xml	Example of an XML message with NPP
6	examples\upp.xml	Example of an XML message from UPP
7	examples\upd.xml	Example of an XML message with UPD
8	examples\od_seap.xml	Example of an XML message sent from SEAP to Entity.
9	examples\do_seap.xml	Example of an XML message sent from the Entity to SEAP. The announcement is addressed to two Domain Systems at the same time.
10	WS_INFO.wsdl	WSDL specification of the interface for retrieving business data from the Third Party to the SEAP
11	EDokument.xsd	Specification of the XSD schema for sending e-Documents via a non-visual channel

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