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**e-TrustEx – Validation Document Bundle Use Case Specification**

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| **Revision** | **Date** | **Created by** | **Short Description of Changes** |
| [0.1] | [06/21/2013] | [Alice Vasilescu] | [Initial Version of approved document] |
| [0.2-0.3] | [09/25/2013] | [Alice Vasilescu] | [Internal review] |
| [0.4] | [09/30/2014] | [Anamaria Batrinu] | [Server Level Agreement – the maximum number of wrappers accepted per bundle] |

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# Validation for Document Bundle

This Use Case is included in the UC1\_1\_1. Asynchronous+Service+Use+Case+Specification.

# Synchronous Validation

This sections is included in the use case [UC1\_1\_1. Asynchronous Service Use Case Specification](https://webgate.ec.europa.eu/CITnet/svn/ETRUSTEX/trunk/001%20e-TrustEx/002%20Requirements/Use%20Case%20Model/UC1_1_1.%20Asynchronous+Service+Use+Case+Specification.docx) at Step "2.1.4 System validates the document ID”.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Element path | Severity | Category | Subcategory |
| RULE265 | The DocumentBundle.ID is not empty | DocumentBundle.ID | Hard | Message content check | Constraint validation |
| RULE266 | The length of the DocumentBundle.ID is not longer than 250 characters | DocumentBundle.ID | Hard | Message content check | Constraint validation |
| RULE267 | The DocumentBundle.ID only has ASCII characters | DocumentBundle.ID | Hard | Message content check | Constraint validation |

* 1. **Asynchronous validation**

# XSD Validation

* This section is included in the use case [UC1\_1\_1. Asynchronous Service Use Case Specification](https://webgate.ec.europa.eu/CITnet/svn/ETRUSTEX/trunk/001%20e-TrustEx/002%20Requirements/Use%20Case%20Model/UC1_1_1.%20Asynchronous+Service+Use+Case+Specification.docx) at Step "2.1.8 System performs the asynchronous validation"

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Element path | Severity | Category | Subcategory |
| RULE59 | The system checks that the message conforms to the Bundle schema.  For more details see sample DocumentBundle in 6.1 Sample Document Bundle | N/A | Hard |  |  |

# Schematron validation

* This section is included in the use case [UC1\_1\_1. Asynchronous Service Use Case Specification](https://webgate.ec.europa.eu/CITnet/svn/ETRUSTEX/trunk/001%20e-TrustEx/002%20Requirements/Use%20Case%20Model/UC1_1_1.%20Asynchronous+Service+Use+Case+Specification.docx) at Step "2.1.8 System performs the asynchronous validation".

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Element path | Severity | Category | Subcategory |
| RULE269 | The DocumentBundle.ParentDocumentTypeCode must be of "DocumentBundle" type | DocumentBundle.ParentDocumentTypeCode | Hard | Message content check | Codelist validation |
| RULE270 | If present, the DocumentBundle.ParentDocumentID length is not longer than 250 characters | DocumentBundle.ParentDocumentID | Hard | Message content check | Constraint validation |
| RULE271 | If present, the DocumentBundle.ParentDocumentID only has ASCII characters | DocumentBundle.ParentDocumentID | Hard | Message content check | Constraint validation |
| RULE272 | The DocumentBundle.IssueDate is not in the future | DocumentBundle.IssueDate | Soft | Message content check | Message logic |
| RULE273 | The DocumentBundle.IssueDate is not older than 12 months | DocumentBundle.IssueDate | Soft | Message content check | Message logic |

# Parent document check

 This section is included in the use case [UC1\_1\_1. Asynchronous Service Use Case Specification](https://webgate.ec.europa.eu/CITnet/svn/ETRUSTEX/trunk/001%20e-TrustEx/002%20Requirements/Use%20Case%20Model/UC1_1_1.%20Asynchronous+Service+Use+Case+Specification.docx) at Step "2.1.8 System performs the asynchronous validation".

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Element path | Severity | Category | Subcategory |
| RULE275 | The DocumentBundle.ParentDocumentID must already exist in the system with the same DocumentBundle.ParentDocumentTypeCode |  | Hard | External check |  |
| RULE290 | The SenderParty of the parent document must be equal to the DocumentBundle.SenderParty OR DocumentBundle.ReceiverParty (both found in the authorisation header) |  | Hard | External check |  |
| RULE291 | The ReceiverParty of the parent document must be equal to the DocumentBundle.ReceiverParty OR DocumentBundle.SenderParty (both found in the authorisation header). |  | Hard | External check |  |

# SLA policy check

This section is included in the use case [UC1\_1\_1. Asynchronous Service Use Case Specification](https://webgate.ec.europa.eu/CITnet/svn/ETRUSTEX/trunk/001%20e-TrustEx/002%20Requirements/Use%20Case%20Model/UC1_1_1.%20Asynchronous+Service+Use+Case+Specification.docx) at Step "2.1.8 System performs the asynchronous validation".

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Element path | Severity | Category | Subcategory |
| RULE597 | The number of wrappers in the bundle does not exceed the maximum allowed. |  | Hard | Message content check |  |

# Errors

### E1. At step 1.2.1 “XSD Validation” an error occurs

* The system performs subflow S1. Persist message upon failure
* The following parameters are added to the Application Response:
* A Response Code is added "BDL:4"
* A Description may be added
* The Use Case ends.

### E2. At step 1.2.2 “Schematron validation” any of the hard business rules fails:

* The system performs subflow S1. Persist message upon failure
* The following parameters are added to the Application Response:
* A Response Code is added "BDL:4"
* A Description may be added
* The Use Case ends.

### E3. At step 1.2.2” Schematron validation” any of the soft business rules fails:

* The system generate the warning(s) corresponding to the failed rule(s)

### E4. At step 1.2.3 “Parent document check” any of the business rules fails:

* The system performs subflow S1. Persist message upon failure
* The following parameters are added to the Application Response:
* A Response Code is added "BDL:5"
* A Description may be added
* The Use Case ends.

### E5. At step 1.2.4 "SLA policy check" any of the business rules fails:

* The system performs subflow S1. Persist message upon failure
* The following parameters are added to the Application Response:
* A Response Code is added "BDL:4"
* A Description may be added
* The Use Case ends.

# Subflow

# S1. Persist message upon failure

* The system creates an Application Response
* The system persists the Application Response and records the following information in the message table etr\_tb\_message:
* The date and time when the message was created
* The reference to the message binary stored in the Binary table
* The ID of the document
* The status of the document is set to “RECEIVED”
* The ID of the agreement that corresponds to this document
* The ID of the Issuer of the document
* The ID of the transaction
* The Issue date and the Receipt date
* The ID of the Receiver
* The ID of the Sender
* The message document type
* An additional entry in the binary table etr\_tb\_message\_binary is created, storing the Application Response xml. This xml would include information regarding the document which failed during the validation process:
* If available, the ID of the document is added
* Its DocumentTypeCode "BDL" is added
* The Issue Date of the document is added
* The status of the document which failed during the validation process changes to “ERROR”

# Special Requirements

N/A.

# Preconditions

N/A.

# Post conditions

N/A.

# Additional Information

N/A.

# Annex

# Sample Document Bundle

|  |  |  |
| --- | --- | --- |
| **Element** | **Constraint** | **Xpath** |
| **SOAP Header** | | |
| **Sender Identification** | *Mandatory* | *Header.BusinessHeader.Sender.Identifier* |
| **Receiver Identification** | *Optional* | *Header.BusinessHeader.Receiver.Identifier* |
| **ID of the message** | *Optional* | *Header.BusinessHeader.DocumentIdentification.InstanceIdentifier* |
| **Message type** | *Optional* | *Header.BusinessHeader.DocumentIdentification.Type* |
| **Reply to** | *Optional* | *SoapHeader.was:ReplyTo.was:Address* |
| **SOAP Body** | | |
| **UBLExtensions** | *Optional* | *DocumentBundle.UBLExtensions* |
| **ProfileID** | *Optional* | *The ID of the Profile* |
| **Bundle ID** | *Mandatory* | *DocumentBundle.ID* |
| **Issue date of the Bundle** | *Mandatory* | *DocumentBundle.IssueDate* |
| **ID Originator document** | *Optional* | *DocumentBundle.OriginatorDocumentReference.ID* |
| **Sender ID** | *Optional* | *DocumentBundle.SenderParty.EndpointID* |
| **Sender Contact ID** | *Optional* | *DocumentBundle.SenderParty.Contact.ID* |
| **Receiver ID** | *Optional* | *DocumentBundle.ReceiverParty.EndpointID* |
| **Receiver Contact ID** | *Optional* | *DocumentBundle.ReceiverParty.Contact.ID* |
| **CountryCode of the Receiver** | *Optional* | *DocumentBundle.ReceiverParty.PhysicalLocation.CountrySubentityCode* |
| **ID of referenced Document Wrapper** | *Mandatory* | *DocumentBundle.DocumentWrapperReference.ID* |
| **Document Type Code used for Document Wrapper** | *Mandatory* | *DocumentBundle.DocumentWrapperReference.DocumentTypeCode* |