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**E-TrustEx – Submit Retrieve Request Use Case Specification**

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| **Settings** | **Value** |
| **Directorate:** | <INFORMATICS> |
| **Project Name:** | e-TrustEx |
| **Document Author:** | Alice Vasilescu |
| **System Owner:** | Tanya Chetcutti |
| **Project Manager:** | Tanya Chetcutti |
| **Revision Status:** | Draft |
| **Sensitivity:** | Limited DG |
| **Issue Date:** | <Issue Date> |

**Document Approver(s):**

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|  |  |  |  |
| --- | --- | --- | --- |
| **Revision** | **Date** | **Created by** | **Short Description of Changes** |
| [0.1] | [21/06/2013] | [Alice Vasilescu] | [Initial Version of approved document] |
| [0.2-0.3] | [25/09/2013] | [Alice Vasilescu] | [Internal review] |
| [0.4] | [13/03/2015] | [Anamaria Batrinu] | [Added clarification for RetrieveIndicator = true and request sender = message sender] |
| [0.5] | [24/08/2015] | [Anamaria Batrinu] | [Internal review JIRA [ETRUSTEX-1078](https://webgate.ec.europa.eu/CITnet/jira/browse/ETRUSTEX-1078)] |

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# Use Case description

This Use Case describes the specific processing performed by e-TrustEx on a business document of type RetrieveRequest. This Use Case extends the UC1\_2\_1 Synchronous Service Use Case Specification.

# References

|  |  |
| --- | --- |
| Document | Location |
| UC1\_2\_1 Synchronous Service Use Case Specification | [https://webgate.ec.europa.eu/CITnet/svn/ETRUSTEX/trunk/001 e-TrustEx/002 Requirements/Use Case Model](https://webgate.ec.europa.eu/CITnet/svn/ETRUSTEX/trunk/001%20e-TrustEx/002%20Requirements/Use%20Case%20Model) |
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| UC1\_12\_1 Submit Inbox Request Use Case | [https://webgate.ec.europa.eu/CITnet/svn/ETRUSTEX/trunk/001 e-TrustEx/002 Requirements/Use Case Model](https://webgate.ec.europa.eu/CITnet/svn/ETRUSTEX/trunk/001%20e-TrustEx/002%20Requirements/Use%20Case%20Model) |
| UC1\_9\_1 Submit Retrieve Document Wrapper Use Case Specification | [https://webgate.ec.europa.eu/CITnet/svn/ETRUSTEX/trunk/001 e-TrustEx/002 Requirements/Use Case Model](https://webgate.ec.europa.eu/CITnet/svn/ETRUSTEX/trunk/001%20e-TrustEx/002%20Requirements/Use%20Case%20Model) |

# Flow of events

# System performs the specific checks

This Use Case extends UC1\_2\_1 Synchronous Service Use Case Specification and it is called from Step 2.1.5. System performs the business specific processing.

# System queries the message repository

The essential parameters for the System to perform the Retrieve Request of a business document are provided below. They are all found in the message.

|  |  |
| --- | --- |
| Element | Xpath |
| **ID (of the document)** | *DocumentReferenceRequest.ID* |
| **Document Type Code** | *DocumentReferenceRequest.DocumentTypeCode* |
| **Sender Party Endpoint ID** | *SenderParty.EndpointID* |
| **Receiver Party Endpoint ID** | *ReceiverParty.EndpointID* |
| **Retrieve Indicator** | *RetrieveIndicator -* The RetrieveRequest message contains a mandatory "Retrieve Indicator" (Boolean type), which impacts the result of an Inbox Request and it is used for changing the retrieved flag of the retrieved document record.  ***Note:*** *Messages in the System having retrieved flag marked as "True" will not be included in the result of an inbox request (see UC1\_12\_1 Submit Inbox Request Use Case).* |

The system queries for one document:

* With specific Sender and Receiver Parties
* Of a specific Document Type Code (e.g. BDL - DocumentBundle) and
* With a specific Document ID

The Document Wrappers are excluded from the result. They can be retrieved using the service RetrieveDocumentWrapper as described in UC1\_9\_1 Submit Retrieve Document Wrapper Use Case Specification.

The system identifies the document record to be retrieved and the RetrieveIndicator in the request is marked as "True":

* System sets the document's retrieved flag to "TRUE", if the message receiver is the same as the request sender. As a consequence, this document will not be returned anymore by the Inbox Request Service.

# System builds the Retrieve Response

Based on the result of the previously mentioned query, the system builds the Retrieve Request Response. ONLY a single document matches the previously mentioned criteria, the full structured content of this matching document is returned in this message.

**Note:** The response message contains a single (retrieved) business document and the ReceivedDate in the UBLExtension. The received date represents the date when the original message was received in e-TrustEx.

# System submits the Retrieve Request Response

* System responds with the Retrieve Request Response built at the previous step
* This closes the secured connection between the Issuer and the System
* **Use Case Ends**.

# Alternative Flows

# A1: At step 3.2 System queries the message repository, no document matches the query criteria

* When no document is found in the message repository matching the previously mentioned criteria, the System responds with a Retrieve Request Response with empty *Document Content*
* This closes the https connection between the Issuer and the System
* **The Use Case Ends.**

# A2: At step 3.2 System queries the message repository, the Retrieved Indicator parameter is set to "False”

* When no document is found in the message repository matching the previously mentioned criteria, see 4.1 A1: At step 3.2 System queries the message repository, no document matches the query criteria
* When a document is found and the "Retrieve Indicator" parameter (Boolean type) is marked as "False", the retrieved flag of the document record is not modified.

**Note:** Should the retrieved flag of the retrieved document record already be set to "TRUE" the fact that the "Retrieve Indicator" (Boolean type) is marked as "False" does NOT modify the retrieved flag of the retrieved document.

* The Use Case continues at the next step.

# A3: At step 3.2 System queries the message repository, the Retrieved Indicator parameter is set to "True” and the request sender is different than the message receiver

* When the "Retrieve Indicator" parameter (Boolean type) is marked as "True", but the request sender is different than the message receiver, the retrieve flag of the retrieved document record is not modified
* The Use Case continues at the next step.

# Exceptional Flows

# E1: At step 3.2 System queries the message repository, a technical failure is reported

* When technical error occurs, the System submits a SOAP Fault [4]
* This closes the https connection between the Issuer and the System
* The Use Case Ends.

# E2: At step 3.4 System submits the Retrieve Request Response, a technical failure is reported regarding the connection with the service’s caller

* The system detects when the service’s caller closes its connection
* In this case the system cannot respond to the subsequent request
* The Use Case Ends.

# Subflow

N/A

# Special Requirements

N/A

# Preconditions

N/A

# Postconditions

* Following the basic flow, the System
  + responds to the Retrieve Request with a Retrieve Request Response containing the retrieved document and
  + marks the retrieved document record as "Retrieved", if the retrieve indicator flag is set to "true" and the requester is the same as the message receiver
* Following alternate flow A1, the System responds to the Retrieve Request with an empty Retrieve Request Response.
* Following alternate flow A2 or A3, the System
  + responds to the Retrieve Request with a Retrieve Request Response containing the retrieved document and
  + leaves the retrieved flag of the retrieved document record unchanged

# Additional Information

N/A