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**e-TrustEx – Retrieve Interchange Agreements Use Case Specification**

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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] | [16/12/2014] | [Anamaria Batrinu] | [Updated broken links and party certificate mapping] |
| [0.5] | [27/08/2015] | [Anamaria Batrinu] | [Internal Review (JIRA [**ETRUSTEX-1080**](https://webgate.ec.europa.eu/CITnet/jira/browse/ETRUSTEX-1080))] |

**Configuration Management: Document Location**

The latest version of this controlled document is stored in [[this location](https://webgate.ec.europa.eu/CITnet/svn/ETRUSTEX/trunk/001%20e-TrustEx/002%20Requirements/Use%20Case%20Model)].

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# Use Case description

This Use Case describes the specific processing performed by e-TrustEx on a business document of type RetrieveInterchangeAgreeements. This Use Case extends the use case 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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# Flow of Events

# System performs the specific checks

This Use Case extends the 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 execute the request are provided below:

**Table 1 - Retrieve Interchange Agreements parameters**

|  |  |  |
| --- | --- | --- |
| **Element** | **Constraint** | **Xpath** |
| **Request Sender Party Identifier** | *Mandatory* | *Header.BusinessHeader.Sender.Identifier* |
| **Sender Party Identifier** | *Optional* | *SenderParty.EndpointID* |
| **Receiver Party Identifier** | *Optional* | *ReceiverParty.EndpointID* |
| **Document Type Code** | *Optional list* | *DocumentTypeCode* |

System queries for Interchange Agreements:

* With a specific Sender Party
* With a specific Receiver Party
* With specific Document Type Codes
* And where either the Sender Party or the Receiver Party is the same as the request Sender.

**Note:**

The search must be performed using the information corresponding to the parameters specified in the above table:

(**Set of) Document Type Codes**AND

**Sender Party AND**

**Receiver Party**

**WHERE the Request Sender is either the Sender or the Receiver**

Within the Document Type Code set the condition is OR **(e.g. ‘Document Type Code A’ OR ‘Document Type Code B’)**.

# System builds the Retrieve Interchange Agreements Response

Based on the result of the previously mentioned query the System builds the Retrieve Interchange Agreements Response message.

The following data is returned on the set of matching interchange agreements (i.e. 1 or more):

|  |  |
| --- | --- |
| **Element** | **Xpath** |
| **Sender Party Endpoint ID** | *InterchangeAgreement.SenderParty.EndpointID* |
| **Set of Sender Party Identifiers with their scheme ID** | *InterchangeAgreement.SenderParty.PartyIdentification.ID* |
| **Receiver Party Endpoint ID** | *InterchangeAgreement.ReceiverParty.EndpointID* |
| **Set of Receiver Party Identifiers with their scheme ID** | *InterchangeAgreementReceiverParty.PartyIdentification.ID* |
| **Confidentiality Level** | *InterchangeAgreement.SecurityInformation.ConfidentialityLevelCode –* the possible values of this field can be found in the [**EC Code List e-TrustEx**.](https://webgate.ec.europa.eu/CITnet/svn/ETRUSTEX/trunk/001%20e-TrustEx/003%20Architecture/001%20Data%20Model/000%20Code%20Tables/EC_CodeList_e-TrustEx.xls) |
| **Integrity Level** | *InterchangeAgreement.SecurityInformation.IntegrityLevelCode–* the possible values of this field can be found in the **EC Code List e-TrustEx**. |
| **Availability Level** | *InterchangeAgreement.SecurityInformation.AvailabilityLevelCode –* the possible values of this field can be found in the **EC Code List e-TrustEx**. |
| **Sender Party Certificate** | *N/A* |
| **Receiver Party Certificate** | *InterchangeAgreement.SecurityInformation.ReceiverPartyCertificate –* one or more certificates depending on the key usage.  The possible values of this field can be found in the **EC Code List e-TrustEx**. Currently, the system maps only certificates having key usage KEY\_ENCIPHERMENT. The system will choose the latest certificate which is active and not revoked. |
| **Profile Name** | *InterchangeAgreement.ProfileID –* the possible values of this field can be found in the **EC Code List e-TrustEx**. |

# System sends the Retrieve Interchange Agreements Response

* The System digitally signs the Retrieve Interchange Agreements Response
* The System sends the signed message to the Issuer
* This closes the secured connection between the Issuer and the system
* **The Use Case Ends**.

# Alternate Flows

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

* The System responds with an empty Retrieve Interchange Agreements Response
* The Use Case Ends.

# A2: At step 3.2 System queries the message repository, the Sender and Receiver parameters are not specified

* System queries for all the Interchange Agreements having the request Sender as one of the parties involved and concerning the document types specified. If no document type is specified, this parameter will not be taken into consideration for the query.
* The Use Case continues at the next step of the basic flow.

# Exceptional Flows

# E1: At any step, a technical failure is reported

* 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 sends the Retrieve Interchange Agreements Response, a connection problem is reported

* The System detects when the Issuer closes its connection
* In this case the System cannot respond to the subsequent request
* The Use Case Ends

# Subflows

N/A

# Special Requirements

N/A

# Preconditions

N/A

# Postconditions

* Following the Basic Flow, the System responds to the Retrieve Interchange Agreements Request with a Retrieve Interchange Agreements Response containing the interchange agreements corresponding to the request parameters.
* Following alternate flow A1 the System responds to the Retrieve Interchange Agreements Request with an empty Retrieve Interchange Agreements Response.
* Following alternate flow A2, the System responds to the Retrieve Interchange Agreements Request with a Retrieve Interchange Agreements Response containing all the interchange agreements in which the request Sender is involved and, if document type codes are specified, which concern these document types.

# Additional Information

N/A