

R31 PRIEDAS_INTEGRATION SPECIFICATION (EN)

TURINYS

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1 GATE AND PLATFORM INTEGRATIONS

This section describes three eFTI gate and platform integrations:

Integration Code	Purpose	FTI Messages
INT-GATE-PLATFORM-01	Uploading identifiers (metadata) from the platform to the gate	FTI004 / FTI029
INT-GATE-PLATFORM-02	Retrieving an eFTI dataset by UIL	FTI009 / FTI010
INT-GATE-PLATFORM-03	Submitting a follow-up communication to the EO	FTI025 / FTI030

All integrations support two communication protocols:

Protocol	Description
REST API	Synchronous HTTP communication directly between the platform and the gate
eDelivery AS4	Asynchronous communication via Domibus (EFTI-DOMIBUS) and the message service (EFTI-MESSAGE-PROCESSOR-APP) with a Kafka queue

Both paths lead to the same business logic on the gate side.

Note: The current gate and platform integration cannot be considered final and production-ready, as during the project execution the European Commission did not prepare or approve technical specifications that would properly define all aspects of gate and platform interaction. The implemented integrations will need to be modified and extended once the European Commission approves the final specifications.

1.1 Actors

Actor	Description
Platform	eFTI platform — data source
System	Lithuanian eFTI gate (modules: EFTI-GATE-APP, EFTI-MESSAGE-PROCESSOR-APP, EFTI-KAFKA, EFTI-DOMIBUS)

1.2 Authentication

Protocol	Authentication Method
REST	Platform registration in the eFTI gate system
eDelivery	mTLS with X.509 certificates and ebMS3 WS-Security signatures

1.3 Permissions

The platform must be registered and active in the System.

1.4 INT-GATE-PLATFORM-01: Uploading eFTI Identifiers (Metadata) from the Platform to the Gate

1.4.1 Integration Overview

Integration Code	INT-GATE-PLATFORM-01
Description	This integration allows the eFTI platform to upload and update transport document identifiers (metadata) in the eFTI gate metadata registry.
Type	REST API / eDelivery AS4
Related Integrations	INT-GATE-G2G, INT-CA-WS-004, INT-DOMIBUS-01

1.4.2 Process Steps

No.	Step	Description	Notes
1	Metadata upload or update request	The platform sends an AS4 message with the UploadIdentifierRequest action	The internal AS4 message (payload) is sent in JSON format
2	XML deserialization	EFTI-MESSAGE-PROCESSOR-APP deserializes the message, determines it is an UploadIdentifier type request, and publishes it to the corresponding EFTI-KAFKA topic	

No.	Step	Description	Notes
3	Request validation and saving	The system validates the request and checks the platform status. On successful validation, a Consignment type record is created and saved (or updated) in the DB	The request must be valid, and the platform status must be Active. If conditions are not met — an error is returned to the platform.
4	XML response	An XML response is formed and placed in the EFTI-KAFKA outbox queue; EFTI-MESSAGE-PROCESSOR-APP picks up the message and sends it to EFTI-DOMIBUS	
5	AS4 response	The response message is sent via EFTI-DOMIBUS to the platform	

Note: The internal logic of the REST integration process works identically to eDelivery, except that communication is synchronous and REST API endpoints are used instead of AS4 (Domibus).

1.4.3 Request: FTI004 — Identifier Upload Request

ExternalIdentifierRequest

Field	Type	Length Limit	Required	Description
datasetId	String	-	No	Dataset identifier assigned by the platform
eftiPlatformId	String	17	Yes	eFTI platform identifier
consignment	ExternalConsignmentRequest	-	Yes	Set of identifiers

ExternalConsignmentRequest

Field	Type	Length Limit	Required	Description
datasetId	String	128	Yes	UUID assigned by the platform
carrierAcceptanceDateTime	OffsetDateTime	20	No	Consignment acceptance date and time
deliveryEvent	ExternalDeliveryEventRequest	-	No	Delivery/unloading information
mainCarriageTransportMovement	List	-	No	Main transport means
usedTransportEquipment	List	-	No	Used transport equipment

ExternalDeliveryEventRequest

Field	Type	Length Limit	Required	Description
actualOccurrenceDatetime	OffsetDateTime	20	No	Actual delivery/unloading date

ExternalMainCarriageTransportMovementRequest

Field	Type	Length Limit	Required	Description
modeCode	String	1	No	Transport mode code
dangerousGoodsIndicator	Boolean	1	No	Dangerous goods indicator. If not provided — defaults to false
usedTransportMeans	ExternalUsedTransportMeansRequest	-	Yes	Used transport means

ExternalUsedTransportMeansRequest

Field	Type	Length Limit	Required	Description
id	ExternalTransportIdentifierRequest	-	Yes	Transport means identifier
registrationCountry	ExternalTradeCountryRequest	-	Yes	Registration country

ExternalTransportIdentifierRequest

Field	Type	Length Limit	Required	Description
value	String	17	Yes	Identifier value
schemeAgencyId	String	17	No	Identification scheme type ID

ExternalTradeCountryRequest

Field	Type	Length Limit	Required	Description
code	String	2	Yes	Country code (ISO 3166-1 alpha-2)

ExternalUsedTransportEquipmentRequest

Field	Type	Length Limit	Required	Description
sequenceNumber	Integer	5	No	Sequence number
categoryCode	String	3	Yes	Category code
id	ExternalTransportIdentifierRequest	-	Yes	Equipment identifier
registrationCountry	ExternalTradeCountryRequest	-	Yes	Registration country
carriedTransportEquipment	List	-	Yes	Carried transport equipment

ExternalCarriedTransportEquipmentRequest

Field	Type	Length Limit	Required	Description
sequenceNumber	Integer	5	No	Sequence number
id	ExternalTransportIdentifierRequest	-	Yes	Carried equipment identifier

1.4.3.1 Request Example

```

{
  "eftiPlatformId": "platform000000001",
  "consignment": {
    "datasetId": "11111111-1111-1111-1111-111111111111",
    "carrierAcceptanceDateTime": "2026-02-03T10:15:30+02:00",
    "deliveryEvent": {},
    "mainCarriageTransportMovement": [
      {
        "dangerousGoodsIndicator": false,
        "modeCode": "3",
        "usedTransportMeans": {
          "id": {
            "value": "ABC123"
          },
          "registrationCountry": {
            "code": "LT"
          }
        }
      }
    ],
    "usedTransportEquipment": [
      {
        "sequenceNumber": 1,
        "categoryCode": "T1",
        "id": {
          "schemeAgencyId": "EU",
          "value": "CONT-0001"
        },
        "registrationCountry": {
          "code": "LT"
        },
        "carriedTransportEquipment": [
          {
            "sequenceNumber": 1,
            "id": {
              "value": "TRAILER-01"
            }
          }
        ]
      }
    ]
  }
}

```

1.4.4 Response: FTI029 — Identifier Upload Response

ExternalIdentifierResponse

Field	Type	Length Limit	Required	Description
status	Enum	-	Yes	COMPLETE or ERROR
identifiersUUID	String	36 (UUID)	Yes	Identifiers UUID assigned by the eFTI gate. Used for metadata updates.

1.5 INT-GATE-PLATFORM-02: Retrieving an eFTI Dataset by UIL

1.5.1 Integration Overview

Integration Code	INT-GATE-PLATFORM-02
Description	This integration allows the eFTI gate to request a specific eFTI dataset from the eFTI platform by UIL (Unique Identifying Link). The platform returns an eFTI dataset XML document.
Type	REST API / eDelivery AS4
Related Integrations	INT-GATE-PLATFORM-01, INT-CA-WS-001, INT-DOMIBUS-01

1.5.2 Process Steps

No.	Step	Description	Notes
1	CA or external gate submits the initial request	CA/external gate initiates an eFTI dataset retrieval request.	
2	Request validation	The system validates the request and identifies the platform to which the request will be submitted based on the UIL.	If the request was initiated by a CA, it is checked whether the CA has the right to obtain the requested data subset(s).
3	XML message	An XML message is formed and placed in the EFTI-KAFKA outbox queue; EFTI-MESSAGE-PROCESSOR-APP picks up the message and sends it to EFTI-DOMIBUS	
4	AS4 sending	The message is sent via EFTI-DOMIBUS to the platform	
5	AS4 response	The platform provides a response with the eFTI dataset	
6	XML deserialization	EFTI-MESSAGE-PROCESSOR-APP deserializes the message, determines its type, and publishes it to the corresponding EFTI-KAFKA topic	
7	Response saving	The response is saved in the DB	
8	Dataset response delivery	A dataset response is formed and returned to the request initiator via the channel through which the request was initiated (CA SOAP WS, i.VAZ portal, or AS4 sending to external gates)	

1.5.3 Request: FTI009 — eFTI Dataset Request

ExternalPlatformGenerateXmlRequest

Field	Type	Length Limit	Required	Description
messageId	String	-	Yes	Message type. The gate sends the value FTI009
requestUuid	String	36 (UUID)	Yes	Request identifier for correlation (the platform must return the same requestUuid in the response)
eFTIDataUuid	String	128	Yes	eFTI dataset identifier (UIL.datasetId; eFTI11)
subsetEURequested	List	250 total	No	EU standard eFTI data subsets (CL-059)
subsetNSRequested	List	250 total	No	National eFTI data subsets (CL-059)
authority	ExternalCompetentAuthority	-	Yes	CA officer's authority (country, contacts, etc.)

ExternalCompetentAuthority

Field	Type	Length Limit	Required	Description
countryCode	String	2	Yes	CA country code (ISO 3166-1 alpha-2; eFTI CL-017)
legalContact	ExternalCompetentAuthorityAddress	-	Yes	Legal contact address
workingContact	ExternalCompetentAuthorityAddress	-	Yes	Working contact address

Field	Type	Length Limit	Required	Description
emergencyService	Boolean	1	Yes	Whether this is an emergency service
name	String	-	Yes	CA name
nationalUniqueIdentifier	String	-	Yes	National unique identifier

ExternalCompetentAuthorityAddress

Field	Type	Length Limit	Required	Description
postCode	String	-	Yes	Postal code
poBox	String	-	No	P.O. Box
cityName	String	-	Yes	City name
streetName	String	-	No	Street name
buildingNumber	String	-	No	Building number
departmentName	String	-	No	Department
houseNumber	String	-	No	House number
countryCode	String	2	Yes	Country code (ISO 3166-1 alpha-2)

1.5.3.1 Request Example

```
{
  "messageId": "FTI009",
  "requestUuid": "550e8400-e29b-41d4-a716-446655440000",
  "eFTIDataUuid": "ad6f2265-f84b-4f8f-86c7-5481be375a78",
  "subsetEURequested": [
    "EU01:M"
  ],
  "subsetNSRequested": [
    "LT01:M",
    "LT02:M"
  ],
  "authority": {
    "countryCode": "LT",
    "legalContact": {
      "postCode": "01505",
      "cityName": "Vilnius",
      "countryCode": "LT"
    },
    "workingContact": {
      "postCode": "01505",
      "cityName": "Vilnius",
      "countryCode": "LT"
    },
    "emergencyService": false,
    "name": "VMI",
    "nationalUniqueIdentifier": "LT-VMI-001"
  }
}
```

1.5.4 Response: FTI010 — eFTI Dataset Response

ExternalPlatformGenerateXmlResponse

Field	Type	Length Limit	Required	Description
messageId	String	-	No	Message type (FTI010)
statusCode	Enum	-	No	COMPLETE, ERROR, PENDING, or TIMEOUT
requestUuid	String	36 (UUID)	No	For correlation with the request
eFTIPlatformId	String	17	No	Platform identifier
eFTIData	String	-	No	eFTI dataset XML (Base64)
message	String	-	No	Error description (if applicable)

1.5.4.1 Response Example

```
{
  "messageId": "FTI010",
  "statusCode": "COMPLETE",
  "requestUuid": "550e8400-e29b-41d4-a716-446655440000",
  "eFTIPlatformId": "platform-lt-001",
  "eFTIData": "PD94bWwgdmVyc2lvcj0iMS4wIiBlbmNvZGluZz0iVVRGLTgiPz4uLi4="
}
```

1.6 INT-GATE-PLATFORM-03: Submitting a Follow-up Communication to the EO

1.6.1 Integration Overview

Integration Code	INT-GATE-PLATFORM-03
Description	This integration allows the eFTI gate to forward a competent authority (CA) officer's follow-up communication to the economic operator (EO) via the eFTI platform. The message is linked to a specific eFTI dataset by UIL and is sent to the platform via REST or eDelivery AS4.
Type	REST API / eDelivery AS4
Related Integrations	INT-DOMIBUS-01

1.6.2 Process Steps

No.	Step	Description
1	CA or external gate submits the initial request	CA/external gate initiates a follow-up message submission request.
2	Request validation	The system validates the request and identifies the platform to which the request will be submitted based on the UIL.
3	XML message	An XML message is formed and placed in the EFTI-KAFKA outbox queue; EFTI-MESSAGE-PROCESSOR-APP picks up the message and sends it to EFTI-DOMIBUS
4	AS4 sending	The message is sent via EFTI-DOMIBUS to the platform
5	AS4 response	The platform provides a response with processing confirmation
6	XML deserialization	EFTI-MESSAGE-PROCESSOR-APP deserializes the message, determines its type, and publishes it to the corresponding EFTI-KAFKA topic
7	Response saving	The response is saved in the DB
8	Message delivery response	A message delivery response (ACK) is formed and returned to the request initiator via the channel through which the request was initiated (CA SOAP WS, i.VAZ portal, or AS4 sending to external gates)

Note: The internal logic of the REST integration process works identically to eDelivery, except that communication is synchronous and REST API endpoints are used instead of AS4 (Domibus).

1.6.3 Request: FTI025 — Follow-up Message Sending

ExternalPlatformIdentifierMessageRequest

Field	Type	Length Limit	Required	Description
issueDateTime	DateTime	20	Yes	Message sending date and time
id	String	128	Yes	Unique message identifier
requestUuid	String	128	Yes	Request ID
uil.gateld	String	17	Yes	eFTI gate identifier
uil.platformId	String	17	Yes	eFTI platform identifier
uil.datasetId	String	128	Yes	eFTI dataset UUID
authorityCountry	String	2	Yes	CA country code (LT or external gate's country)
message	String	512	Yes	Message text

1.6.3.1 Request Example

```
{
  "issueDateTime": "20250204143052+0200",
  "id": "alb2c3d4-e5f6-4a7b-8c9d-0e1f2a3b4c5d",
  "requestUuid": "550e8400-e29b-41d4-a716-446655440000",
  "uil": {
    "gateId": "eu-lt25",
    "platformId": "platform-lt-001",
    "datasetId": "ad6f2265-f84b-4f8f-86c7-5481be375a78"
  },
  "authorityCountry": "LT",
  "message": "Please provide the missing CMR document data: sender's address."
}
```

1.6.4 Response: FTI030 — Follow-up Processing Acknowledgement (ACK)

Field	Type	Length Limit	Required	Description
issueDateTime	DateTime	20	Yes	Message sending date and time
payloadId	String	128	Yes	Message identifier (UUID)
requestUuid	String	128	Yes	Data request ID that was sent in the message request
uil.platformId	String	17	Yes	eFTI platform identifier
uil.gateId	String	17	Yes	eFTI gate identifier
uil.datasetId	String	128	Yes	eFTI dataset UUID
statusCode	Enum	-	Yes	COMPLETE, ERROR, PENDING, or TIMEOUT
disposition	String	-	Conditional	Error description (when statusCode is not COMPLETE)

1.6.4.1 Response Example

```
{
  "messageId": "FTI030",
  "requestUuid": "550e8400-e29b-41d4-a716-446655440000",
  "uil": {
    "gateId": "eu-lt25",
    "platformId": "platform-lt-001",
    "datasetId": "ad6f2265-f84b-4f8f-86c7-5481be375a78"
  },
  "statusCode": "COMPLETE",
  "disposition": null
}
```

2 GATE-TO-GATE (G2G) INTEGRATIONS

This section describes eFTI gate-to-gate communication: identifier search, dataset access, and EO messages via the eDelivery AS4 protocol.

Integration	FTI Messages	Purpose
Identifier Search	FTI019 / FTI021	Broadcast request to all gates by transport means/container identifier
Dataset Access	FTI020 / FTI022	Targeted request to specific gates by UIL
EO Message	FTI026 / FTI031	Forwarding a follow-up message to an external platform via other gates

Each communication type is **symmetric** — EFTI-GATE-APP can act both as the requesting and responding gate.

2.1 Architecture Model

Gate communication is based on the eDelivery AS4 4-corner model — an EU-standardized architecture for cross-border data exchange.

Component	Description
EFTI-GATE-APP	Forms requests, processes responses
EFTI-MESSAGE-PROCESSOR-APP	Processes asynchronous process messages
EFTI-KAFKA	Distributed messaging system. Stores topics for eFTI asynchronous processes
EFTI-DOMIBUS	AS4 access point — signs, encrypts, and sends/receives messages
External eFTI gates	Other member state gates — process the request and return a response

2.2 Actors

Actor	Description
System	Lithuanian eFTI gate (eu-lt25)
External eFTI gates	Other member state eFTI gates (e.g., Estonian eu-ee21)
CA	Competent authority (performs actions via the eFTI portal (i.VAZ) or as a SOAP WS client)

2.3 Authentication

Parameter	Value
Security policy	eDeliveryAS4Policy
Signature algorithm	RSA_SHA256
Encryption	Asymmetric with X.509 certificates
Transport security	HTTPS with mutual TLS
Certificate stores	JKS (keystore and truststore)

2.4 P-Mode Configuration

Parties:

Party	Party ID
Lithuanian eFTI gate	eu-lt25
External eFTI gate (Estonia)	eu-ee21

Note: The gate Party ID format is not finalized and may change in the final EC specifications.

P-Mode Actions:

Action	Purpose
eftiGateAction	Identifier and UIL requests/responses
GetTransportDocumentRequest	eFTI dataset request
GetTransportDocumentResponse	eFTI dataset response

2.5 Outgoing Communication (EFTI-GATE-APP -> External eFTI Gates)

2.5.1 Request Sending

No.	Step	FTI019 (identifier search)	FTI020 (dataset access)	FTI026 (EO message)	Actor
1	CA submits initial request	CA initiates an identifier (metadata) search request	CA initiates an eFTI dataset retrieval by UIL request	CA initiates an EO message sending request	CA
2	Request validation	Identifier search request structure is validated	eFTI dataset retrieval by UIL request structure is validated	EO message sending request structure is validated	EFTI-GATE-APP
3	Recipient gate determination	Based on request parameters, a list of external gates is formed (all registered external eFTI gates or gates specified by the CA)	Based on the UIL gateld component, a single external eFTI gate is determined	Based on the UIL gateld component, a single external eFTI gate is determined	EFTI-GATE-APP
4	XML message formation	The formed XML message is placed in the EFTI-KAFKA outbox queue; EFTI-MESSAGE-PROCESSOR-APP picks up the message from EFTI-KAFKA and sends it to EFTI-DOMIBUS	The formed XML message is placed in the EFTI-KAFKA outbox queue; EFTI-MESSAGE-PROCESSOR-APP picks up the message from EFTI-KAFKA and sends it to EFTI-DOMIBUS	The formed XML message is placed in the EFTI-KAFKA outbox queue; EFTI-MESSAGE-PROCESSOR-APP picks up the message from EFTI-KAFKA and sends it to EFTI-DOMIBUS	EFTI-MESSAGE-PROCESSOR-APP
5	AS4 sending	The message is sent via EFTI-DOMIBUS to external eFTI gates	The message is sent via EFTI-DOMIBUS to the target external eFTI gate	The message is sent via EFTI-DOMIBUS to the target external eFTI gate	EFTI-DOMIBUS

2.5.2 Response Receiving

No.	Step	FTI021 (identifier search)	FTI022 (dataset access)	FTI031 (EO message)	Actor
6	AS4 response receiving	Response with found identifiers (status 200/404)	Response with the eFTI dataset or error	Processing acknowledgement	EFTI-DOMIBUS
7	XML deserialization	EFTI-MESSAGE-PROCESSOR-APP deserializes the message, determines its type, and publishes it to the corresponding EFTI-KAFKA topic	EFTI-MESSAGE-PROCESSOR-APP deserializes the message, determines its type, and publishes it to the corresponding EFTI-KAFKA topic	EFTI-MESSAGE-PROCESSOR-APP deserializes the message, determines its type, and publishes it to the corresponding EFTI-KAFKA topic	EFTI-MESSAGE-PROCESSOR-APP
8	Response data saving	Each gate's response is saved	Response information and the received dataset are saved	The message forwarding confirmation status is saved	EFTI-GATE-APP
9	Response returned to CA	A response is formed and returned to the CA	A response is formed and returned to the CA	A response is formed and returned to the CA	EFTI-GATE-APP

2.6 Incoming Communication (External eFTI Gates -> EFTI-GATE-APP)

2.6.1 Request Processing

No.	Step	FTI019 (identifier search)	FTI020 (dataset access)	FTI026 (EO message)	Actor
1	AS4 request receiving	Request with identifier parameters	Request with UIL parameters (gateld, platformId, datasetId)	Request with follow-up message content	EFTI-DOMIBUS
2	XML deserialization	EFTI-MESSAGE-PROCESSOR-APP deserializes the message, determines its type, and publishes it to the corresponding EFTI-KAFKA topic	EFTI-MESSAGE-PROCESSOR-APP deserializes the message, determines its type, and publishes it to the corresponding EFTI-KAFKA topic	EFTI-MESSAGE-PROCESSOR-APP deserializes the message, determines its type, and publishes it to the corresponding EFTI-KAFKA topic	EFTI-MESSAGE-PROCESSOR-APP

No.	Step	FTI019 (identifier search)	FTI020 (dataset access)	FTI026 (EO message)	Actor
3	Request validation and saving	The received request is validated and saved	The received request is validated and saved	The received request is validated and saved	EFTI-GATE-APP
4	Response preparation	A search is performed in the metadata registry based on the parameters provided in the request. Depending on the search results, a response is formed	The dataset retrieval by UIL process is executed (FTI009/FTI010). Depending on the platform's results, a response is formed	The EO message sending process is executed (FTI009/FTI010). Depending on the platform's results, a response is formed	EFTI-GATE-APP
5	XML message	The formed XML message is placed in the EFTI-KAFKA outbox queue; EFTI-MESSAGE-PROCESSOR-APP picks up the message from EFTI-KAFKA and sends it to EFTI-DOMIBUS	The formed XML message is placed in the EFTI-KAFKA outbox queue; EFTI-MESSAGE-PROCESSOR-APP picks up the message from EFTI-KAFKA and sends it to EFTI-DOMIBUS	The formed XML message is placed in the EFTI-KAFKA outbox queue; EFTI-MESSAGE-PROCESSOR-APP picks up the message from EFTI-KAFKA and sends it to EFTI-DOMIBUS	EFTI-MESSAGE-PROCESSOR-APP
6	AS4 response sending	The response message is sent via EFTI-DOMIBUS to the external eFTI gates	The response message is sent via EFTI-DOMIBUS to the external eFTI gates	The response message is sent via EFTI-DOMIBUS to the external eFTI gates	EFTI-DOMIBUS

2.7 Identifier Search (FTI019/FTI021)

2.7.1 Integration Overview

Description	Broadcast request to all registered eFTI gates by transport means or container identifier. External gates search their metadata registry and return found identifiers with UIL information.
Type	AS4 (eDelivery ebMS3)
P-Mode Action	eftiGateAction

2.7.2 Process Steps

No.	Step	Description
1	CA initiates search	CA submits an identifier search request via the i.VAZ portal or SOAP WS
2	Recipient determination	Based on the country classifier, all external gates to which the request will be sent are determined
3	XML formation	For each recipient, an IdentifierQueryXml message is formed with the requestId and identifier parameters
4	Sending via Kafka/Domibus	Messages are placed in the KafkaMessageOutbox; EFTI-MESSAGE-PROCESSOR-APP forwards them via EFTI-DOMIBUS
5	Response receiving	Each gate's response (IdentifierResponseXml) returns via Domibus -> Kafka -> EFTI-GATE-APP
6	Result accumulation	Each gate's response is saved in the GateToGateResponse table and returned to the CA

2.7.3 Request: FTI019 — Identifier Search Request

The message is sent in XML format via eDelivery AS4.

IdentifierQueryXml (inherits from RequestXml)

Field	Type	Required	Description
requestId	String (token)	Yes	Unique request identifier (UUID), used for correlation
identifier	IdentifierXml	Yes	Searched identifier
registrationCountryCode	String (token)	No	Registration country code
modeCode	String (token)	No	Transport mode code
dangerousGoodsIndicator	Boolean	No	Dangerous goods indicator

IdentifierXml

Field	Type	Required	Description
value	String (token)	Yes	Identifier value (e.g., vehicle number)

Field	Type	Required	Description
type	List (IdentifierTypeXml)	No	Identifier type: MEANS (transport means), EQUIPMENT (equipment), CARRIED (carried equipment)
schemeAgencyId	String (token)	No	Identification scheme agency ID

2.7.3.1 Request Example (XML)

```
<identifierQuery requestId="550e8400-e29b-41d4-a716-446655440000">
  <identifier type="means">ABC123</identifier>
  <registrationCountryCode>LT</registrationCountryCode>
  <modeCode>3</modeCode>
  <dangerousGoodsIndicator>false</dangerousGoodsIndicator>
</identifierQuery>
```

2.7.4 Response: FTI021 — Identifier Search Response

IdentifierResponseXml (inherits from ResponseXml)

Field	Type	Required	Description
status	String	Yes	Response status (EDeliveryStatus: 200, 404, 500, etc.)
requestId	String (token)	No	Correlation identifier from the request
description	String	No	Error description (if applicable)
consignment	List (ConsignmentXml)	No	List of found identifiers

ConsignmentXml (inherits from SupplyChainConsignmentXml)

Field	Type	Required	Description
uil	UILXml	Yes	Unique Identifying Link (UIL)
carrierAcceptanceDateTime	DateTimeXml	No	Consignment acceptance date and time
deliveryEvent	TransportEventXml	No	Delivery/unloading information
mainCarriageTransportMovement	List (LogisticsTransportMovementXml)	No	Main transport means
usedTransportEquipment	List (LogisticsTransportEquipmentXml)	No	Used transport equipment

UILXml

Field	Type	Required	Description
gateId	String (token)	Yes	eFTI gate identifier (e.g., eu-It25)
platformId	String (token)	Yes	eFTI platform identifier
datasetId	String (token)	Yes	eFTI dataset UUID

2.7.4.1 Response Example (XML) — Identifiers Found

```
<identifierResponse status="200" requestId="550e8400-e29b-41d4-a716-446655440000">
  <consignment>
    <uil>
      <gateId>eu-lt25</gateId>
      <platformId>platform-lt-001</platformId>
      <datasetId>ad6f2265-f84b-4f8f-86c7-5481be375a78</datasetId>
    </uil>
    <mainCarriageTransportMovement>
      <dangerousGoodsIndicator>false</dangerousGoodsIndicator>
      <modeCode>3</modeCode>
      <usedTransportMeans>
        <id>
          <value>ABC123</value>
        </id>
        <registrationCountry>
          <code>LT</code>
        </registrationCountry>
      </usedTransportMeans>
    </mainCarriageTransportMovement>
  </consignment>
</identifierResponse>
```

2.7.4.2 Response Example (XML) — Identifiers Not Found

```
<identifierResponse status="404" requestId="550e8400-e29b-41d4-a716-446655440000">
  <description>No identifiers found</description>
</identifierResponse>
```

2.8 Dataset Access by UIL (FTI020/FTI022)

2.8.1 Integration Overview

Description	Targeted request to specific external gates by UIL. The requesting gate sends an FTI020 message to the target responding gate, which retrieves the dataset from its platform (FTI009/FTI010) and returns an FTI022 response with the eFTI dataset.
Type	AS4 (eDelivery ebMS3)
P-Mode Action	eftiGateAction / GetTransportDocumentRequest / GetTransportDocumentResponse

2.8.2 Process Steps

No.	Step	Description
1	CA initiates data retrieval	CA submits a UIL-based eFTI dataset request (typically after identifier search FTI019/FTI021)
2	Target gate determination	The target external eFTI gate is determined based on the UIL gateId component
3	FTI020 sending	A UILQueryXml request with the UIL and requested data subsets is formed and sent via Kafka/Domibus
4	Responding gate processing	The target gate receives FTI020, initiates an FTI009 request to its platform, and receives the FTI010 response
5	FTI022 response return	The target gate forms a UILResponseXml with the dataset and returns it via Domibus
6	Response delivery to CA	The received dataset is saved and delivered to the CA

2.8.3 Request: FTI020 — Dataset Request by UIL

UILQueryXml (inherits from RequestXml)

Field	Type	Required	Description
requestId	String (token)	Yes	Unique request identifier (UUID)
uil	UILXml	Yes	Unique Identifying Link (UIL) — specifies the target gate, platform, and dataset
subsetId	List (String)	Yes	List of requested eFTI data subsets (CL-059)

UILXml — structure described in the INT-GATE-G2G-01 section.

2.8.3.1 Request Example (XML)

```
<uilQuery requestId="660f9511-f30c-52e5-b827-557766551111">
  <uil>
    <gateId>eu-ee21</gateId>
    <platformId>platform-ee-001</platformId>
    <datasetId>ad6f2265-f84b-4f8f-86c7-5481be375a78</datasetId>
  </uil>
  <subsetId>EU01:M</subsetId>
  <subsetId>LT01:M</subsetId>
</uilQuery>
```

2.8.4 Response: FTI022 — Dataset Response

UILResponseXml (inherits from ResponseXml)

Field	Type	Required	Description
status	String	Yes	Response status (200, 404, 500, etc.)
requestId	String (token)	No	Correlation identifier from the request
description	String	No	Error description (if applicable)
consignment	SupplyChainConsignmentXml	No	eFTI dataset (CDS/Annex II)

2.8.4.1 Response Example (XML) — Success

```
<uilResponse status="200" requestId="660f9511-f30c-52e5-b827-557766551111">
  <consignment xmlns="http://efti.eu/v1/consignment/common">
    <!-- eFTI CDS (Annex II) dataset -->
  </consignment>
</uilResponse>
```

2.8.4.2 Response Example (XML) — Error

```
<uilResponse status="404" requestId="660f9511-f30c-52e5-b827-557766551111">
  <description>Dataset not found</description>
</uilResponse>
```

2.9 EO Message (FTI026/FTI031)

2.9.1 Integration Overview

Integration Code	INT-GATE-G2G-03
Description	Forwarding a follow-up communication via external gates to an eFTI platform when the platform belongs to another member state. The CA officer sends a message to the EO via their gate, which forwards it to the target gate's platform.
Type	AS4 (eDelivery ebMS3)
P-Mode Action	eftiGateAction

2.9.2 Process Steps

No.	Step	Description
1	CA initiates message	CA officer submits an EO message via the i.VAZ portal or SOAP WS
2	Target gate determination	The target external eFTI gate is determined based on the UIL gateId component
3	FTI026 sending	A PostFollowUpRequestXml request is formed and sent via Kafka/Domibus
4	Responding gate processing	The target gate receives the message and forwards it to its platform (FTI025)
5	FTI031 acknowledgement	The target gate returns a processing acknowledgement
6	Acknowledgement delivery to CA	The acknowledgement status is returned to the CA

2.9.3 Request: FTI026 — Follow-up Message Sending via Gates

PostFollowUpRequestXml (inherits from RequestXml)

Field	Type	Required	Description
requestId	String (token)	Yes	Unique request identifier (UUID)
uilQueryRequestId	String (token)	Yes	Related UIL query ID (correlation identifier with a previous dataset access)
uil	UILXml	Yes	Unique Identifying Link (UIL)
message	String (min. 2 characters)	Yes	Message text to the EO

UILXml — structure described in the INT-GATE-G2G-01 section.

2.9.3.1 Request Example (XML)

```
<postFollowUpRequest requestId="770a0622-a41d-63f6-c938-668877662222"
  uilQueryRequestId="660f9511-f30c-52e5-b827-557766551111">
  <uil>
    <gateId>eu-ee21</gateId>
    <platformId>platform-ee-001</platformId>
    <datasetId>ad6f2265-f84b-4f8f-86c7-5481be375a78</datasetId>
  </uil>
  <message>Please provide the missing CMR document data: sender's address.</message>
</postFollowUpRequest>
```

2.9.4 Response: FTI031 — Follow-up Processing Acknowledgement

The response is returned as ResponseXml with a status.

Field	Type	Required	Description
status	String	Yes	Response status (200 — successfully delivered, other — error)
requestId	String (token)	No	Correlation identifier from the request
description	String	No	Error description (if applicable)

2.9.4.1 Response Example (XML) — Success

```
<response status="200" requestId="770a0622-a41d-63f6-c938-668877662222"/>
```

2.9.5 Status Codes (EDeliveryStatus)

The following response status codes are used in gate-to-gate communication:

Code	Meaning
200	Successful processing
400	Invalid request
404	Data not found
500	Internal server error

3 COMPETENT AUTHORITY (CA) INTEGRATIONS

This section describes the competent authority (CA) integrations with the eFTI gate system via SOAP web service. All CA integrations operate asynchronously and use a common SOAP interface.

Integration Code	Purpose	SOAP Method
INT-CA-WS-001	Retrieving eFTI data by UIL	startGetEftiDataByUIL
INT-CA-WS-002	Checking eFTI request status	checkStatus
INT-CA-WS-003	Retrieving eFTI request result	getResult
INT-CA-WS-004	eFTI data search	startSearchByIdentifier
INT-CA-WS-005	Submitting a follow-up communication to the EO	sendFollowUp

3.1 Actors

Actor	Description
CA officer	Competent authority officer (SOAP client)
System	Lithuanian eFTI gate (i.VAZ TD Service, eFTI Gate API)
eFTI Platform	External system — eFTI data source
External eFTI gates	External system — other member state eFTI gates

3.2 Authentication

The system uses mTLS (Mutual TLS) with X.509 certificates for CA SOAP client authentication:

- The institution is identified via a valid mTLS certificate
- officerAuditRef is used only for traceability (not for access control)

3.3 Access Rights Management

Calling CA Data Service methods is permitted for institutions that have been granted the EFTI_CA_WS privilege. Additionally, the scope of the eFTI dataset is controlled through privileges defining national or EU eFTI data subsets. When retrieving an eFTI dataset, the institution must specify the subset(s) whose scope of data should be provided. Before submitting the request, the system will validate whether the institution has been granted the rights to obtain the requested data subsets.

Note: The system currently implements a principled architecture for controlling data scope through subsets. Its operation at this stage is limited due to insufficient EU specification definiteness and limited eFTI gate testing partner functionality (subset support is an eFTI platform feature). Subset privileges may not be used when calling external partner eFTI gates or may be ignored when external gates form a response.

Data Subset	Privilege	Description
LT01:M	EFTI_VIEW_SUBSET_LT01	National data subset LT01
LT02:M	EFTI_VIEW_SUBSET_LT02	National data subset LT02
LT03a:M	EFTI_VIEW_SUBSET_LT03A	National data subset LT03a
LT03b:M	EFTI_VIEW_SUBSET_LT03B	National data subset LT03b
LT04:M	EFTI_VIEW_SUBSET_LT04	National data subset LT04
LT06:M	EFTI_VIEW_SUBSET_LT06	National data subset LT06

3.4 Asynchronous Operating Model

All CA SOAP service operations (except checkStatus and getResult) operate asynchronously according to this model:

1. The CA officer initiates an operation (e.g., startGetEftiDataByUIL, startSearchByIdentifier, sendFollowUp)
2. The system returns a correlationId and PENDING status
3. The CA officer periodically checks the status using the checkStatus method (recommended polling interval: 3-5 seconds)
4. When the status changes to READY, the CA officer calls the getResult method to obtain the result (not applicable to INT-CA-WS-005 — there the result is returned via checkStatus)

Possible statuses:

Status	Description
PENDING	Operation in progress, waiting for response from external system
READY	Result prepared, getResult can be called
ERROR	An error occurred while processing the request

3.5 INT-CA-WS-001: Retrieving eFTI Data by UIL

3.5.1 Integration Overview

Integration Code	INT-CA-WS-001
Description	This integration allows competent authority (CA) officers to initiate an asynchronous eFTI transport document request by UIL (Unique Identifying Link). The UIL consists of three components: gate identifier (gateId), platform identifier (platformId), and dataset identifier (datasetId).
Type	SOAP Web Service
Authentication	mTLS (mutual TLS) with X.509 certificate

3.5.2 Process Steps

No.	Step	Description	Notes
1	Request initiation	CA officer (SOAP client) sends a startGetEftiDataByUIL request with UIL and data subset selection	mTLS certificate required
2	mTLS authentication	The system validates the TLS certificate and identifies the institution	Process continues if the certificate is valid
3	Request validation	The system checks UIL, officerAuditRef, data subsets, and user rights	If validation fails, the system may return INVALID_REQUEST or UNAUTHORIZED errors
4	Cache check	The system searches for an existing request with the same hash	If found — the system returns the existing correlationId and skips steps 5-6
5	REST request to eFTI Gate API	i.VAZ TD service component sends a POST request to the System's eFTI Gate internal API	i.VAZ service component calls the eFTI gate component (internal call to initiate an eFTI operation)
6	AS4 request	The system (eFTI Gate component) sends a request to the eFTI Platform or to external eFTI gates	The system determines the target based on UIL (external eFTI gates or Lithuanian eFTI platform)
7	Response returned to CA SOAP client	i.VAZ TD service component returns correlationId and status (PENDING) to the CA SOAP client	PENDING status means the external operation was successfully initiated and a response from the external system is being awaited. The client must periodically check the operation status using the status check method (see INT-CA-WS-002).
8	AS4 response received from external system	The system (eFTI Gate component) receives a response from the external system	A response is received from the external eFTI Platform or external eFTI gates. The received result is temporarily saved, and the operation status changes from PENDING to READY (on success) or ERROR (if the external system responded with an error)
9	Status check	CA SOAP client periodically checks the status using the checkStatus method	CA SOAP client calls the status check method (INT-CA-WS-002) with the correlationId parameter
10	Status response	The system returns the current status	Possible statuses: PENDING, READY, or ERROR
11	Result request	If the status is READY, the CA SOAP client calls getResult	CA SOAP client calls the result retrieval method (INT-CA-WS-003) with the correlationId parameter
12	Response	The system returns the eFTI dataset	The system returns the result with the universal getResult method response, where the result field contains Base64-encoded XML (the result content structure depends on the initiated operation)

3.5.3 Operation: startGetEftiDataByUIL

Initiates an asynchronous transport document request.

3.5.3.1 Request

StartGetEftiDataByUILRequest

Field	Type	Length Limit	Required	Description
officerAuditRef	String	128	Yes	CA officer audit reference for traceability
uil	UILType	-	Yes	Unique Identifying Link
uil.gateId	String	17	Yes	eFTI gate identifier
uil.platformId	String	17	Yes	eFTI platform identifier
uil.datasetId	String	128	Yes	eFTI dataset UUID
subsetSelection	SubsetType	-	No	Desired data subsets
subsetSelection.eu	List	16 per element	No	EU standard data subsets
subsetSelection.ns	List	16 per element	No	National data subsets

Example:

```
<StartGetEftiDataByUILRequest xmlns="http://www.vmi.lt/cms/imas/ivaz">
<officerAuditRef>AUDIT-2025-001</officerAuditRef>   <uil>           <gateId>eu-
lt25</gateId>           <platformId>platform-lt-001</platformId>
<datasetId>ad6f2265-f84b-4f8f-86c7-5481be375a78</datasetId>   </uil>
<subsetSelection>           <ns>LT01:M</ns>           <ns>LT02:M</ns>
</subsetSelection></StartGetEftiDataByUILRequest>
```

3.5.3.2 Response

StartAsyncResponse

Field	Type	Length Limit	Required	Description
correlationId	String (UUID)	36 (UUID)	Conditional	Request identifier for periodic status checking
status	Enum	-	Yes	Request status
errorDetail	String	-	No	Error description

Successful response:

```
<StartAsyncResponse xmlns="http://www.vmi.lt/cms/imas/ivaz">
<correlationId>550e8400-e29b-41d4-a716-446655440000</correlationId>
<status>PENDING</status></StartAsyncResponse>
```

3.5.4 Errors

Error Status	Message (EN)	Possible Cause
INVALID_REQUEST	UIL is invalid - all fields are required!	Missing gateId, platformId, or datasetId
INVALID_REQUEST	officerAuditRef is required!	Audit reference not provided
INVALID_REQUEST	Validation failed: [field]: item must not exceed [max] characters	Maximum field length exceeded
INVALID_REQUEST	Validation failed: [field]: total length of all items must not exceed [maxTotal] characters	Maximum total list length exceeded
INVALID_REQUEST	At least one 'eu' or 'ns' subset is required!	No data subset provided (when subsetSelection is specified but empty)
INVALID_REQUEST	Subset '[name]' is not valid!	Non-existent data subset specified
INVALID_REQUEST	correlationId is required!	correlationId not provided (checkStatus/getResult)
INVALID_REQUEST	correlationId is not of UUID format!	correlationId does not match UUID format
UNAUTHORIZED	Certificate not found / Certificate not valid	Invalid or expired mTLS certificate
UNAUTHORIZED	User has no privileges!	User has no eFTI privileges
UNAUTHORIZED	User has no required privileges for Subset [name]	Missing privilege for a specific data subset
UNAUTHORIZED	Given correlationId does not belong to authenticated user!	Attempting to access another institution's request
NOT_FOUND	No result found with given correlationId!	Invalid or expired correlationId
ERROR	Platform is inactive!	eFTI platform not registered or inactive
ERROR	[Gate error message]	Error from eFTI Gate API
INTERNAL_ERROR	Unexpected value in response status: [status]	Unexpected response status from Gate
INTERNAL_ERROR	[Timeout message]	Response not received within the set time

3.6 INT-CA-WS-002: Checking eFTI Request Status

3.6.1 Integration Overview

Integration Code	INT-CA-WS-002
Description	This integration allows competent authority (CA) officers to check the execution status of an asynchronous eFTI data request by correlationId received from the initial operation.
Type	SOAP Web Service
Authentication	mTLS (mutual TLS) with X.509 certificate

3.6.2 Process

This method must be called when the CA SOAP client has initiated an operation that is executed asynchronously:

1. INT-CA-WS-001: Retrieving eFTI data by UIL
2. INT-CA-WS-004: eFTI data search
3. INT-CA-WS-005: Submitting a follow-up communication to the EO

Recommended polling interval: 3-5 seconds.

3.6.3 Process Steps

No.	Step	Description	Notes
1	Status check initiation	CA officer (SOAP client) sends a checkStatus request with correlationId	mTLS certificate required
2	mTLS authentication	The system validates the TLS certificate and identifies the institution	Process continues if the certificate is valid
3	Ownership check	The system checks whether the correlationId belongs to the requesting institution	Checks whether the initial request identified by the correlationId was initiated by the same institution
4	Status retrieval	The system reads the current request status of the original operation from the internal database	Status can be PENDING, READY, ERROR
5	Response returned to CA SOAP client	i.VAZ TD service component returns the current status	The client must repeat the request (periodic status checking) if the returned status was PENDING

3.6.4 Operation: checkStatus

3.6.4.1 Request

CheckStatusRequest

SOAP namespace: urn:lt:vmi:efti:gate:ca:v1

Field	Type	Length Limit	Required	Description
officerAuditRef	String	128	Yes	CA officer audit reference for traceability
correlationId	String	36 (UUID)	Yes	Request UUID received from the initial operation (e.g., startGetEftiDataByUIL)

Example:

```
<CheckStatusRequest xmlns="http://www.vmi.lt/cms/imas/ivaz">
  <officerAuditRef>AUDIT-2025-001</officerAuditRef>    <correlationId>550e8400-e29b-41d4-a716-446655440000</correlationId></CheckStatusRequest>
```

3.6.4.2 Response

CheckStatusResponse

Field	Type	Length Limit	Required	Description
correlationId	String (UUID)	36 (UUID)	Yes	Request identifier
status	Enum	-	Yes	Current request status
errorDetail	String	-	No	Error description (if status = ERROR or another error status)

Successful response (request still in progress):

```
<CheckStatusResponse xmlns="http://www.vmi.lt/cms/imas/ivaz">
<correlationId>550e8400-e29b-41d4-a716-446655440000</correlationId>
<status>PENDING</status></CheckStatusResponse>
```

Successful response (result prepared):

```
<CheckStatusResponse xmlns="http://www.vmi.lt/cms/imas/ivaz">
<correlationId>550e8400-e29b-41d4-a716-446655440000</correlationId>
<status>READY</status></CheckStatusResponse>
```

Response with error:

```
<CheckStatusResponse xmlns="http://www.vmi.lt/cms/imas/ivaz">
<correlationId>550e8400-e29b-41d4-a716-446655440000</correlationId>
<status>ERROR</status> <errorDetail>Platform is
inactive!</errorDetail></CheckStatusResponse>
```

3.6.5 Errors

Error Status	Message (EN)	Possible Cause
INVALID_REQUEST	officerAuditRef is required!	Audit reference not provided
INVALID_REQUEST	correlationId is required!	correlationId not provided
INVALID_REQUEST	correlationId is not of UUID format!	correlationId does not match UUID format
UNAUTHORIZED	Certificate not found / Certificate not valid	Invalid or expired mTLS certificate
UNAUTHORIZED	User has no privileges!	User has no eFTI privileges
UNAUTHORIZED	Given correlationId does not belong to authenticated user!	Attempting to access another institution's request status
NOT_FOUND	No result found with given correlationId!	Invalid or expired correlationId
ERROR	Platform is inactive!	eFTI platform not registered or inactive (returned from the initial request's errorDetail)
ERROR	[Gate error message]	Error from eFTI Gate API (returned from the initial request's errorDetail)

3.7 INT-CA-WS-003: Retrieving eFTI Request Result

3.7.1 Integration Overview

Integration Code	INT-CA-WS-003
Description	This integration allows competent authority (CA) officers to retrieve the response to a previously executed operation when the asynchronous request result is prepared (status=READY).
Type	SOAP Web Service
Authentication	mTLS (mutual TLS) with X.509 certificate

3.7.2 Process

This method must be called when the CA SOAP client has initiated an asynchronous operation and the status check method (INT-CA-WS-002) has returned READY status:

1. INT-CA-WS-001: Retrieving eFTI data by UIL
2. INT-CA-WS-004: eFTI data search

Note: For the message submission operation (INT-CA-WS-005: Submitting a follow-up communication to the EO), which is also asynchronous, this method is not called. Its result is returned directly via the status check method (INT-CA-WS-002).

3.7.3 Process Steps

No.	Step	Description	Notes
1	Result request initiation	CA officer (SOAP client) sends a getResult request with correlationId	mTLS certificate required
2	mTLS authentication	The system validates the TLS certificate and identifies the institution	Process continues if the certificate is valid
3	Ownership check	The system checks whether the correlationId belongs to the requesting institution	Checks whether the initial request identified by the correlationId was initiated by the same institution
4	Status check	The system checks whether the request status is READY	If not READY, returns the current status (PENDING or ERROR)
5	Data retrieval	The system reads the data required for the response from the DB	Response data is stored in the DB after receiving the asynchronous request result from the external system (eFTI platform or external eFTI gates)
6	Response returned to CA SOAP client	Returns the response	The result is provided in Base64-encoded XML format (structure depends on the initial operation type)

3.7.4 Operation: getResult

3.7.4.1 Request

GetResultRequest

Field	Type	Length Limit	Required	Description
officerAuditRef	String	128	Yes	CA officer audit reference for traceability
correlationId	String	36 (UUID)	Yes	Request UUID received from the initial operation (e.g., startGetEftiDataByUIL INT-CA-WS-001)

Example:

```
<GetResultRequest xmlns="http://www.vmi.lt/cms/imas/ivaz">
<officerAuditRef>AUDIT-2025-001</officerAuditRef> <correlationId>550e8400-e29b-41d4-a716-446655440000</correlationId></GetResultRequest>
```

3.7.4.2 Response

GetResultResponse

Field	Type	Length Limit	Required	Description
correlationId	String (UUID)	36 (UUID)	Yes	Request identifier
status	Enum	-	Yes	Status (should be READY if there is a result)
errorDetail	String	-	No	Error description (if status is not READY)
result	String (Base64)	-	Conditional	Result in Base64 format (only when status is READY). Structure depends on the initial asynchronous request type.

Successful response:

```
<GetResultResponse xmlns="http://www.vmi.lt/cms/imas/ivaz">
<correlationId>550e8400-e29b-41d4-a716-446655440000</correlationId>
<status>READY</status>
<result>eyJkYXRhc2V0SWQiOiJhZDZmMjI2NS1mODRiLTRmOGYtODZjNy01NDgxYmUzNzVhNzgiLC...</result></GetResultResponse>
```

Response when result is not yet prepared:

```
<GetResultResponse xmlns="http://www.vmi.lt/cms/imas/ivaz">
<correlationId>550e8400-e29b-41d4-a716-446655440000</correlationId>
<status>PENDING</status></GetResultResponse>
```

3.7.5 Errors

Error Status	Message (EN)	Possible Cause
INVALID_REQUEST	officerAuditRef is required!	Audit reference not provided
INVALID_REQUEST	correlationId is required!	correlationId not provided
INVALID_REQUEST	correlationId is not of UUID format!	correlationId does not match UUID format
UNAUTHORIZED	Certificate not found / Certificate not valid	Invalid or expired mTLS certificate
UNAUTHORIZED	User has no privileges!	User has no eFTI privileges
UNAUTHORIZED	Given correlationId does not belong to authenticated user!	Attempting to access another institution's data
NOT_FOUND	No result found with given correlationId!	Invalid or expired correlationId
ERROR	Platform is inactive!	eFTI platform not registered or inactive
ERROR	[Gate error message]	Error from eFTI Gate API
INTERNAL_ERROR	Unexpected value in response status: X	Unexpected value in response (internal error)

3.8 INT-CA-WS-004: eFTI Data Search

3.8.1 Integration Overview

Integration Code	INT-CA-WS-004
Description	This integration allows competent authority (CA) officers to initiate an asynchronous eFTI metadata search by eFTI identifiers.
Type	SOAP Web Service
Authentication	mTLS (mutual TLS) with X.509 certificate

3.8.2 Process Steps

No.	Step	Description	Notes
1	Search initiation	CA officer (SOAP client) calls the startSearchByIdentifier method with search parameters	mTLS certificate required
2	mTLS authentication	The system validates the TLS certificate and identifies the institution	Process continues if the certificate is valid
3	Request validation	Validates officerAuditRef and search parameters	If validation fails, the system may return INVALID_REQUEST or UNAUTHORIZED errors
4	Cache check	The system searches for an existing request with the same hash	If found — returns the existing correlationId and skips steps 5-6
5	REST request to eFTI Gate API	i.VAZ TD service component sends a POST request to the System's eFTI Gate internal API	i.VAZ service component calls the eFTI gate component (internal call to initiate an eFTI operation)
6a	LT metadata search	The system performs an eFTI data search in the metadata registry (internal DB, synchronous search)	Search may not be performed if searchCountries is specified without including Lithuania. Retrieved results are temporarily saved.
6b	AS4 request	The system (eFTI Gate component) forms and sends AS4 messages to external EU gates	In parallel with step 6a, search messages are sent to those gates whose countries are specified in the searchCountries parameter or to all countries if searchCountries is not specified
7	Response returned to CA SOAP client	i.VAZ TD service component returns correlationId and status (PENDING) to the CA SOAP client	PENDING status means the external operation was successfully initiated and a response from the external system is being awaited. The client must periodically check the operation status using the status check method (see INT-CA-WS-002).
8	AS4 response received from external system	The system (eFTI Gate component) receives a response from the external system	A response is received from external eFTI gates. The received result is temporarily saved. The system waits for responses from all external eFTI gates. While responses from all gates queried during the search operation have not been received, or while the response timeout has not expired, the operation status remains PENDING. When all gate responses are received and processed,

No.	Step	Description	Notes
			the operation status changes from PENDING to READY (on success) or ERROR (if no external system provided a success message)
9	Status check	CA SOAP client periodically checks the status using the checkStatus method	CA SOAP client calls the status check method (INT-CA-WS-002) with the correlationId parameter
10	Status response	The system returns the current status	Possible statuses: PENDING, READY, or ERROR
11	Result request	If the status is READY, the CA SOAP client calls getResult	CA SOAP client calls the result retrieval method (INT-CA-WS-003) with the correlationId parameter
12	Aggregated results	The system returns a list of all found metadata records	The system returns the result with the universal getResult method response, where the result field contains Base64-encoded XML (the result content structure depends on the initiated operation)

Search result aggregation:

- Lithuanian metadata search results are obtained synchronously from the internal DB and temporarily saved
- EU external gate responses are obtained asynchronously via FTI021 messages
- The final result combines Lithuanian and EU results into a single list

3.8.3 Operation: startSearchByIdentifier

Initiates an asynchronous transport identifier search.

3.8.3.1 Request

StartSearchByIdentifierRequest

Field	Type	Length Limit	Required	Description
officerAuditRef	String	128	Yes	CA officer audit reference for traceability
vehicleRegistrationNumber	String	50	Conditional	Vehicle registration number. The system automatically normalizes input (removes spaces, dashes). Required if containerOrTrailerNumber is not provided.
containerOrTrailerNumber	String	50	Conditional	Container or trailer number. The system automatically normalizes input. Required if vehicleRegistrationNumber is not provided.
registrationCountryCode	String	2	No	Vehicle registration country (ISO 3166-1 alpha-2, e.g., LT, DE, PL)
modeCode	String	1	No	Transport type: 1=maritime, 2=rail, 3=road, 8=inland waterways
loadingDateFrom	Date	YYYY-MM-DD	No	Loading date start. Filters eFTI records by cargo loading date.
loadingDateTo	Date	YYYY-MM-DD	No	Loading date end. Filters eFTI records by cargo loading date.
deliveryDateFrom	Date	YYYY-MM-DD	No	Delivery date start. Filters eFTI records by cargo delivery date.
deliveryDateTo	Date	YYYY-MM-DD	No	Delivery date end. Filters eFTI records by cargo delivery date.
dangerousGoodsIndicator	Boolean	-	No	When true, searches only for records with dangerous goods.
searchCountries	List	2 per element	No	Countries in which the search will be performed (ISO 3166-1 alpha-2). Default value — all countries (ALL).

Example:

```
<StartSearchByIdentifierRequest xmlns="urn:lt:vmi:efti:gate:ca:v1">
<officerAuditRef>AUDIT-2025-002</officerAuditRef>
<vehicleRegistrationNumber>ABC123</vehicleRegistrationNumber>
<registrationCountryCode>LT</registrationCountryCode> <modeCode>3</modeCode>
<loadingDateFrom>2025-01-01</loadingDateFrom> <loadingDateTo>2025-01-
19</loadingDateTo> <dangerousGoodsIndicator>>false</dangerousGoodsIndicator>
<searchCountries> <country>LT</country> <country>DE</country>
<country>PL</country> </searchCountries></StartSearchByIdentifierRequest>
```

3.8.3.2 Response

StartAsyncResponse

Field	Type	Length Limit	Required	Description
correlationId	String (UUID)	36 (UUID)	Conditional	Request identifier for periodic status checking
status	Enum	-	Yes	Request status
errorDetail	String	-	No	Error description

Successful response:

```
<StartAsyncResponse xmlns="http://www.vmi.lt/cms/imas/ivaz">
<correlationId>550e8400-e29b-41d4-a716-446655440000</correlationId>
<status>PENDING</status></StartAsyncResponse>
```

3.8.4 Errors

Error Status	Message (EN)	Possible Cause
INVALID_REQUEST	At least one of vehicleRegistrationNumber or containerOrTrailerNumber is required!	Neither vehicle registration number nor container/trailer number provided
INVALID_REQUEST	vehicleRegistrationNumber must not exceed 50 characters!	Maximum vehicle number length exceeded
INVALID_REQUEST	containerOrTrailerNumber must not exceed 50 characters!	Maximum container/trailer number length exceeded
INVALID_REQUEST	registrationCountryCode must be 2 characters!	Invalid country code
INVALID_REQUEST	Invalid modeCode value! Must be 1, 2, 3 or 8	Invalid transport type code
INVALID_REQUEST	loadingDateFrom cannot be after loadingDateTo!	Invalid loading date range
INVALID_REQUEST	deliveryDateFrom cannot be after deliveryDateTo!	Invalid delivery date range
INVALID_REQUEST	Invalid date format! Expected YYYY-MM-DD	Invalid date format
INVALID_REQUEST	Invalid country code in searchCountries: [code]	Invalid country code in search countries
INVALID_REQUEST	officerAuditRef is required!	Audit reference not provided
INVALID_REQUEST	correlationId is required!	correlationId not provided (checkSearchStatus/getSearchResult)
INVALID_REQUEST	correlationId is not of UUID format!	correlationId does not match UUID format
UNAUTHORIZED	Certificate not found / Certificate not valid	Invalid or expired mTLS certificate
UNAUTHORIZED	User has no privileges!	User does not have EFTI_CA_SEARCH privilege
UNAUTHORIZED	Given correlationId does not belong to authenticated user!	Attempting to access another institution's request
NOT_FOUND	No identifiers found with given criteria!	No records found matching the specified criteria
NOT_FOUND	No result found with given correlationId!	Invalid or expired correlationId
ERROR	Could not find receiverGatePartyId for country: [code]	Gate configuration not found for the specified country
INTERNAL_ERROR	Unexpected error during search processing	Unexpected system error

3.9 INT-CA-WS-005: Submitting a Follow-up Communication to the EO

3.9.1 Integration Overview

Integration Code	INT-CA-WS-005
Description	This integration allows competent authority (CA) officers to send a message (follow-up communication) to an economic operator (EO) via the eFTI platform. The message is sent after eFTI data review and can be used to request missing data or to inform about performed inspection actions.
Type	SOAP Web Service
Authentication	mTLS (mutual TLS) with X.509 certificate

3.9.2 Process Steps

No.	Step	Description	Notes
1	Request initiation	CA officer (SOAP client) sends a sendFollowUp request with message text	mTLS certificate required

No.	Step	Description	Notes
2	mTLS authentication	The system validates the TLS certificate and identifies the institution	Process continues if the certificate is valid
3	Request validation	Validates UIL, officerAuditRef, and user rights	If validation fails, the system may return INVALID_REQUEST or UNAUTHORIZED errors
4	Cache check	Searches for an existing request with the same hash	If found — returns the existing correlationId and skips steps 5-6
5	REST request to eFTI Gate API	i.VAZ TD service component sends a POST request to the System's eFTI Gate internal API	i.VAZ service component calls the eFTI gate component (internal call to initiate an eFTI operation)
6	AS4 request	The system (eFTI Gate component) sends a message to the eFTI Platform or a message to external eFTI gates	The system determines the message recipient based on UIL (external eFTI gates or Lithuanian eFTI platform)
7	Response returned to CA SOAP client	i.VAZ TD service component returns correlationId and status (PENDING) to the CA SOAP client	PENDING status means the external operation was successfully initiated and a response from the external system is being awaited. The client must periodically check the operation status using the status check method (see INT-CA-WS-002).
8	AS4 response received from external system	The system (eFTI Gate component) receives a response from the external system	A response is received from the external eFTI Platform or external eFTI gates. The received result is temporarily saved, and the operation status changes from PENDING to READY (on success) or ERROR (if the external system responded with an error)
9	Status check	CA SOAP client periodically checks the status using the checkStatus method	CA SOAP client calls the status check method (INT-CA-WS-002) with the correlationId parameter
10	Status response	The system returns the current status	Possible statuses: PENDING, READY, or ERROR. If status is READY — message was delivered successfully, if ERROR — message was not delivered. The getResult method is not called in this case (INT-CA-WS-003).

3.9.3 Operation: sendFollowUp

Sends a message (follow-up communication) to the EO via the eFTI platform or eFTI gates.

3.9.3.1 Request

SendFollowUpRequest

Field	Type	Length Limit	Required	Description
officerAuditRef	String	128	Yes	CA officer audit reference for traceability
uil	UILType	-	Yes	Unique Identifying Link
uil.gateId	String	17	Yes	eFTI gate identifier
uil.platformId	String	17	Yes	eFTI platform identifier
uil.datasetId	String	128	Yes	eFTI dataset UUID
message	String	512	Yes	Message text to the EO

Example:

```
<SendFollowUpRequest xmlns="http://www.vmi.lt/cms/imas/ivaz">
<officerAuditRef>AUDIT-2025-001</officerAuditRef>    <uil>                <gateId>eu-
lt25</gateId>                <platformId>platform-1t-001</platformId>
<datasetId>ad6f2265-f84b-4f8f-86c7-5481be375a78</datasetId>    </uil>
<message>Please provide the missing CMR document data: sender's
address.</message></SendFollowUpRequest>
```

3.9.3.2 Response

SendFollowUpResponse

Field	Type	Length Limit	Required	Description
correlationId	String (UUID)	36 (UUID)	Conditional	Request identifier for periodic status checking
status	Enum	-	Yes	Request status

Field	Type	Length Limit	Required	Description
errorDetail	String	-	No	Error description

Successful response:

```
<StartAsyncResponse xmlns="http://www.vmi.lt/cms/imas/ivaz">
<correlationId>550e8400-e29b-41d4-a716-446655440000</correlationId>
<status>PENDING</status></StartAsyncResponse>
```

Note: For the EO message sending case, the getResult method is not used (INT-CA-WS-003). The message sending result is returned via the checkStatus method: READY — message sent successfully, ERROR — message sending failed, PENDING — awaiting confirmation from the platform or gates.

3.9.4 Errors

Error Status	Message (EN)	Possible Cause
INVALID_REQUEST	UIL is invalid - all fields are required!	Missing gateId, platformId, or datasetId
INVALID_REQUEST	requestId is required!	Initial request ID not provided
INVALID_REQUEST	requestId is not of UUID format!	requestId does not match UUID format
INVALID_REQUEST	officerAuditRef is required!	Audit reference not provided
INVALID_REQUEST	message is required!	Message text not provided
INVALID_REQUEST	message must not exceed 512 characters!	Maximum message length exceeded
UNAUTHORIZED	Certificate not found / Certificate not valid	Invalid or expired mTLS certificate
INACTIVE_PLATFORM	Platform is inactive!	eFTI platform not registered or inactive

3.10 CA SOAP Service Data Structures

This section describes data structures used in CA SOAP service operation responses. The description applies to these integrations: INT-CA-WS-001, INT-CA-WS-003, INT-CA-WS-004.

3.10.1 Compatibility

Lithuanian eFTI gate compatibility is ensured with Estonian eFTI gates, which use the Reference Implementation solution. For this reason, eFTI data XML schemas and data structures match the format chosen by Estonia. Once the European Commission approves the final eFTI specifications, data structures will need to be updated.

3.10.2 GetResultResponse

Common response format for all asynchronous operations.

Field	Type	Required	Description
correlationId	String (UUID)	Yes	Request identifier received from the initial operation
status	Enum	Yes	Request status: PENDING, READY, ERROR
errorDetail	String	No	Error description (when status is not READY)
result	Base64 String	Conditional	XML content encoded in Base64 format (only when status=READY)

Example:

```
<GetResultResponse xmlns="http://www.vmi.lt/cms/imas/ivaz">
<correlationId>550e8400-e29b-41d4-a716-446655440000</correlationId>
<status>READY</status>
<result>PD94bWwgdmVyc2lvcj0iMS4wIiBlbmNvZG1...</result></GetResultResponse>
```

3.10.3 eFTI Dataset Structure (INT-CA-WS-001)

Content format:

- Encoding: Base64
- Content: XML with eFTI consignment data

Consignment structure (top-level elements):

Element	Description
carrier	Carrier data (name, address, contacts, VAT code)
consignee	Consignee data
consignor	Consignor data
grossWeight	Total cargo weight
information	Additional information
mainCarriageTransportMovement	Main carriage information (transport means, mode, dangerous goods)
natureIdentificationCargo	Cargo nature description
usedTransportEquipment	Used transport equipment (trailer, container)

Example structure:

```
<?xml version="1.0" encoding="UTF-8"?><consignment
xmlns="http://www.vmi.lt/cms/imas/ivaz"> <carrier> <definedContactDetails>
<emailAddress><completeNumber>info@company.lt</completeNumber></emailAddress>
<telephone><completeNumber>+370 5 123 4567</completeNumber></telephone>
</definedContactDetails> <id schemeAgencyId="VAT">123456789</id> <name>UAB
Transportas</name> <postalAddress> <countryCode>LT</countryCode>
<streetName>Gedimino pr. 1, Vilnius</streetName> </postalAddress>
<roleCode>CAR</roleCode> </carrier> <consignee> <!-- Consignee data -->
</consignee> <consignor> <!-- Consignor data --> </consignor> <grossWeight
unitId="KGM">5000.00</grossWeight> <mainCarriageTransportMovement>
<dangerousGoodsIndicator>false</dangerousGoodsIndicator> <modeCode>3</modeCode>
<usedTransportMeans> <id schemeAgencyId="VehicleReg">ABC123</id>
<registrationCountry><code>LT</code></registrationCountry> </usedTransportMeans>
</mainCarriageTransportMovement> <usedTransportEquipment> <id
schemeAgencyId="VehicleReg">XYZ789</id>
<registrationCountry><code>LT</code></registrationCountry>
<sequenceNumber>1</sequenceNumber> </usedTransportEquipment></consignment>
```

Note: Detailed description of each element is provided in the EC eFTI specifications (Regulation (EU) 2020/1056, Annex II). This document provides only a structural overview.

3.10.4 Metadata Search Results (INT-CA-WS-004)

Content format:

- Encoding: Base64
- Content: XML with search result metadata

Result aggregation by country:

Search results are aggregated from all queried countries. For each country the following is returned:

Field	Type	Description
countryCode	String (ISO 3166-1 alpha-2)	Country code (LT, EE, DE, PL...)
status	Enum	Country search status: READY, ERROR, TIMEOUT
resultCount	Integer	Number of found eFTI records
consignments	List	List of metadata records with UIL

Consignment metadata structure:

Search results return only metadata (not the full eFTI dataset):

Element	Description
deliveryEvent	Delivery event information
mainCarriageTransportMovement	Transport means and carriage information
usedTransportEquipment	Trailer/container information
uil	Unique Identifying Link (reference to the full dataset)

UIL structure:

Element	Length	Description
gateId	up to 17	eFTI gate identifier (e.g., eu-lt25)
platformId	up to 17	eFTI platform identifier

Element	Length	Description
datasetId	UUID (36)	Dataset unique identifier

Example structure:

```
<?xml version="1.0" encoding="UTF-8"?><searchResults
xmlns="http://www.vmi.lt/cms/imas/ivaz"> <!-- Country search statuses -->
<countryResult> <countryCode>LT</countryCode> <status>READY</status>
<resultCount>2</resultCount> </countryResult> <countryResult>
<countryCode>EE</countryCode> <status>READY</status>
<resultCount>1</resultCount> </countryResult> <!-- Metadata records -->
<consignment> <deliveryEvent/> <mainCarriageTransportMovement>
<dangerousGoodsIndicator>false</dangerousGoodsIndicator>
<modeCode>3</modeCode> <usedTransportMeans> <id>ABC123</id>
<registrationCountry><code>LT</code></registrationCountry>
</usedTransportMeans> </mainCarriageTransportMovement>
<usedTransportEquipment> <id>XYZ789</id>
<registrationCountry><code>LT</code></registrationCountry>
<sequenceNumber>1</sequenceNumber> </usedTransportEquipment> <uil>
<gateId>eu-lt25</gateId> <platformId>platform-lt-001</platformId>
<datasetId>a50b1dd8-28fa-4bcb-a2a0-50df5820b124</datasetId> </uil>
</consignment> <consignment> <mainCarriageTransportMovement>
<dangerousGoodsIndicator>false</dangerousGoodsIndicator>
<modeCode>3</modeCode> <usedTransportMeans> <id>ABC123</id>
<registrationCountry><code>EE</code></registrationCountry>
</usedTransportMeans> </mainCarriageTransportMovement> <uil> <gateId>eu-
ee21</gateId> <platformId>ybilprod</platformId> <datasetId>bd5968a6-cf68-
437e-a73d-a184eec2114e</datasetId> </uil> </consignment></searchResults>
```