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DIRECTORATE-GENERAL FOR MOBILITY AND TRANSPORT
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ERRU

XML Message Reference

Schema Version 3.5

Date:	30/10/2024
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Authors:	Martin Gardiner
Revised by:	Manuel Leal e Sousa
Approved by:	Romain Durand
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Contact:

EC-MOVEHUB-PROJECT@ec.europa.eu (for pre-production questions and issues)
EC-MOVEHUB-TESTING@ec.europa.eu (for testing requests and execution questions)
EC-MOVEHUB-HELPDESK@ec.europa.eu (for production questions and issues)

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- [2] ERRU, *COMMISSION IMPLEMENTING REGULATION (EU) 2022/694 of 2 May 2022 amending Regulation (EU) 2016/403 as regards new serious infringements of the Union rules which may lead to the loss of good repute by the road transport operator*, 2022.
- [3] ERRU, *COMMISSION IMPLEMENTING REGULATION (EU) 2023/2381 of 29 September 2023 amending Implementing Regulation (EU) 2016/480 establishing common rules concerning the interconnection of national electronic registers on road transport undertakings (Text with EEA relevance)*, 2023.
- [4] ERRU, *Regulation (EC) No 1071/2009 of the European Parliament and of the Council of 21 October 2009 establishing common rules concerning the conditions to be complied with to pursue the occupation of road transport operator and repealing Council Directive 96/26/EC (Text with EEA relevance)*, 2009.
- [5] RSI, *Directive 2014/47/EU of the European Parliament and of the Council of 3 April 2014 on the technical roadside inspection of the roadworthiness of commercial vehicles circulating in the Union and repealing Directive 2000/30/EC Text with EEA relevance*.
- [6] MOVEHUB, *MOVEHUB Networking Guide 2.5*, 2023.
- [7] ERRU, *ERRU 3.0 XSD Technical Specifications (HTML)*, 2023.
- [8] ERRU, *ERRU 3.0 XSD Technical Specifications (Word)*, 2023.
- [9] MOVEHUB, *Transliteration and NYSIIS Package, 02/08/2023, v2.09*, 2023.

3. CHANGES FROM PREVIOUS DOCUMENT VERSIONS

3.1. 2.0 to 2.01 Changes

Section	Change Description
Multiple	Correct namespaces and message samples where necessary.
Multiple	Replace any occurrence of previous version 1.5 with 2.4.
Multiple	Correct various mapping tables.
5.3	Remove redundant text describing the introduction of synchronous messages.
6.2	Updated to clarify the use of Timeout and NotAvailable statuses.
6.4	The section has been revised to simplify the previously listed business validation and to add missing validation.
7.2.1	The transport manager's address has been made optional in the CGR response. Guidance for supplying address data has been added.
7.2.3	ERRU 3 allows the transport manager address details to be given in the CGR search request. This was missing from the v3.0 XSD. It has been added to the XSD and the version mapping tables updated.
7.3.1	Clarification of the CTUD search request contents - it must contain at least two of the three possible search parameters.
7.3.1	The @requestAllVehicles attribute of the CTUD request was missing from the 3.0 XSD. It has been added to the XSD and the search description and mappings updated.
7.3.1	Clarification of the search mechanism when the vehicle registration country is defaulted to QQ during message mapping.
7.3.1.1	Section added to separate and clarify the multiple searches in the responding MS.
7.3.1.2	Section added to clarify optional local searches.
7.3.1.3	Section added to clarify the @requestAllVehicles attribute.
7.4.3	Section added to clarify the handling of penalties in the NCR request and response.
7.4.4	Section added to clarify the messaging requirements where no serious infringements are found.
7.5	Updated to confirm that an NU Ack is required in response to an NU Request.

3.2. 2.01 to 2.02 Changes

Section	Change Description
7.4.4	Updated to clarify the responses to clean check notifications are not required but also not prohibited.

3.3. 2.02 to 2.03 Changes

Section	Change Description
7.4.4	New section inserted for addition of NCR Request @notExecutedReason attribute. Subsequent section numbers incremented.

3.4. 2.02 to 2.04 Changes

Section	Change Description
6.4	Missing business validation rules added.

3.5. 2.04 to 2.05 Changes

Section	Change Description
Appendices	Add missing Regulation 2022/694 infringements.

3.6. 2.05 to 2.06 Changes

Section	Change Description
Multiple	XSD version changed to 3.5 throughout the document. New XSD's have been issued to make the CheckGoodRepute_Response/Body/MemberState/TransportManagerDetails/Transport ManagerCertificateDetails/@certificateValidity attribute mandatory.

4. INTRODUCTION

The European Register of Road Undertakings (ERRU) network exists to enable Member States to fulfil the obligations laid down in Regulation (EU) 2016/480 [1], as amended by Regulation 2022/694 [2] and Regulation 2023/2381 [3], which provides for the interconnection of national electronic registers as described in Article 16(6) of Regulation (EC) No 1071/2009 [4].

The version of ERRU currently in use by the Member States (2.4) has been operational since 2015. This latest version of the XML Guide is to accompany the imminent amendment to Regulation (EU) 2023/2381 [3].

4.1. Road Side Inspections (RSI)

Member States are required to notify each other of serious deficiencies found during the road side inspections of vehicles not registered in the Member State of inspection; see Article 18(1) of Directive 2014/47/EU [5]. This article also provides for the ERRU network created by Article 16(6) of Regulation (EC) No 1071/2009 [4] to be used for the electronic exchange of RSI notices.

n.b. There is no legal requirement to upgrade RSI messages to this latest version. New versions of the RSI messages with updated schema namespaces and the addition of vehicle registration country have been provided so that MS that have combined their ERRU and RSI applications can use the latest version of the schemas for both applications.

4.2. ERRU 2 vs. ERRU 3

The move from ERRU 2.4 message schemas to ERRU 3.5 schemas is a breaking upgrade. ERRU 3 deprecates two message types (Check Community Licence and Infringement Notification) and replaces them with two new messages (Check Transport Undertaking Data and Notification of Check Result):

- Check Community Licence → Check Transport Undertaking Data
- Infringement Notification → Notification of Check Result

The central Hub will map messages from one version to another, but all downstream applications within the MS will need to be upgraded to handle v3.5 messages and the additional data requirements.

4.3. Side-by-Deployment

It is not feasible for all MS to upgrade their application at the same time. Therefore, the Hub will provide the functionality to map and convert v2.4 messages and workflows to v3.5 (and vice versa) such that MS may upgrade their applications according to their own timetable (subject to the provisions in Regulation 2023/2381 [3]) without regard to the status of other MS.

5. ERRU GLOBAL ARCHITECTURE

ERRU is built on a Hub and spoke architectural model and the network comprises the ERRU Central Hub (under the responsibility of the EC) and the MS systems (acting as the spokes under the responsibility of the respective MS). In this model the MS is the owner of their own transport undertaking register and the EC Hub facilitates the exchange of data between the MS.

5.1. Centralised Architecture

The Hub application brokers the exchange of messages between the MS. The protocols and points of contact may differ between MS, but all messages are routed through the Hub.

MS need to implement a system which shall act as the SPOC for all request messages that are forwarded to that MS. This system will be responsible for receiving the XML messages from the Hub and must have high availability, reliability and scalability as described in Regulations 2016/480 [1] and 2023/2381 [3].

MS that host their application in multiple administrations may choose to receive responses through the same application and route messages internally behind the SPOC. Alternatively, MS may choose to send requests to the Hub from multiple applications over synchronous messaging protocols. The responses to the requests will be returned to the sender on the synchronous response, see 5.3.2 below.

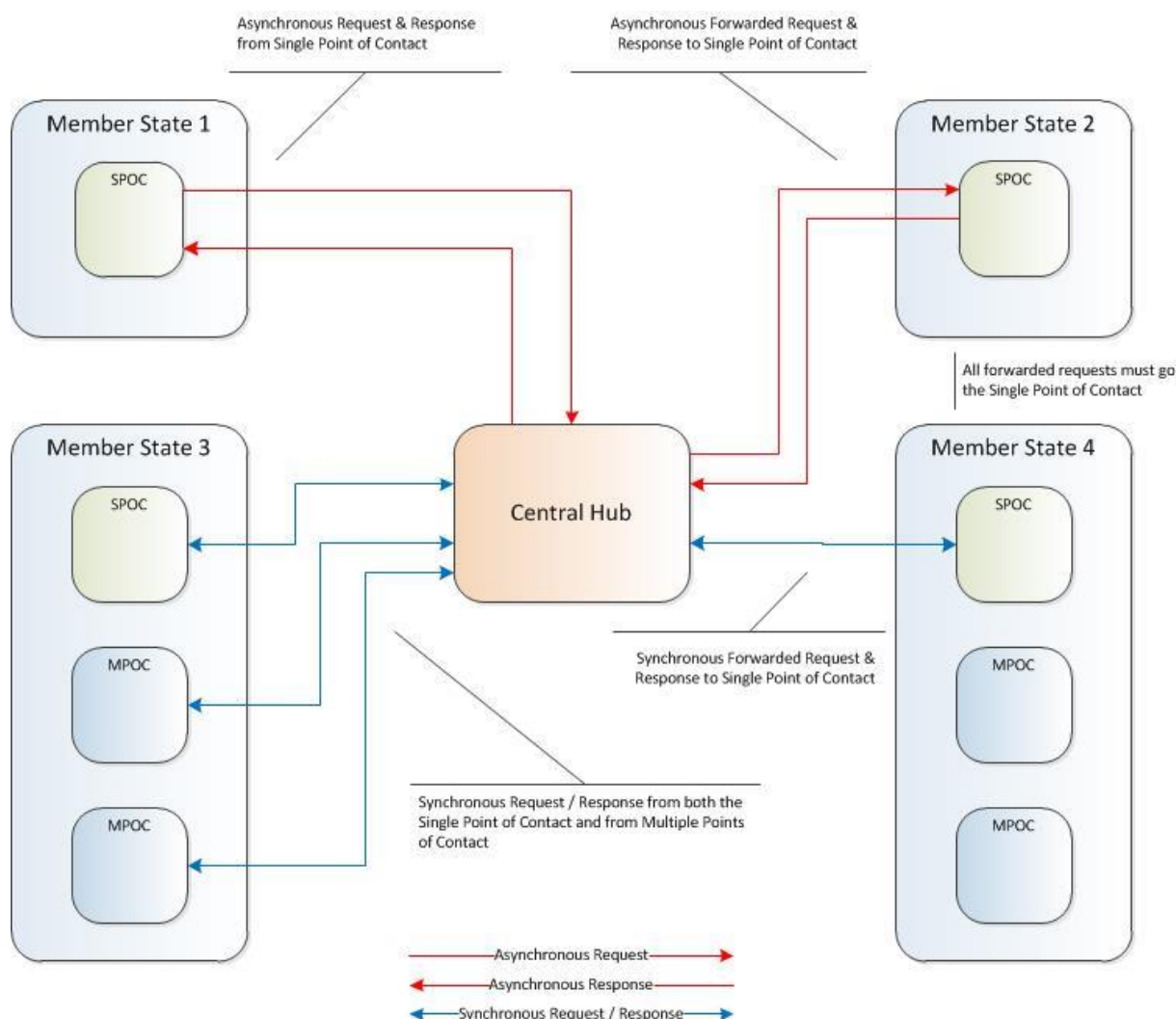


Figure 1 - ERRU Architecture

5.2. XML Messaging Framework

The Hub:

- receives a request from a MS
- forwards / broadcasts the request to the necessary counterparty MS
- collects the individual response(s)
- prepares the consolidated response based on the individual response(s) from the MS
- forwards the final consolidated response to the requesting MS.

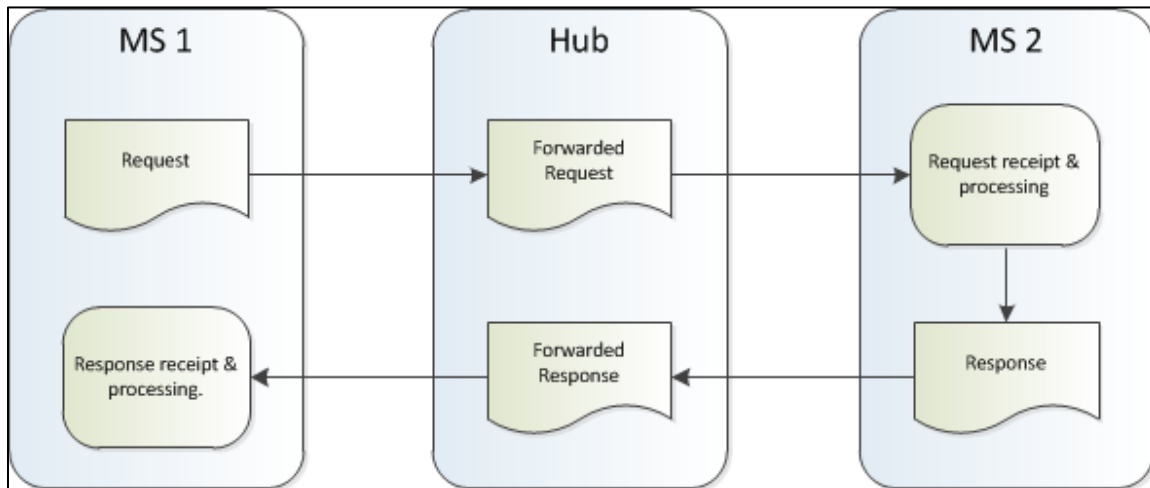


Figure 2 - Standard Message Flow

The following rules or implementation constraints must be observed when implementing the Hub and the MS.

- All MS must be connected to the TESTA network to be able to exchange messages.
- Every MS (through their SPOC) is in charge of ensuring 24/7, high-availability and 98% uptime. Response time of less than 10 seconds, for every request coming as an XML message from the Hub, see [1] Annex VI.
- If the request / response message received from a MS has an invalid format then the Hub will not process the message. After recording the details of an invalid message, the Hub will notify the sending MS that an invalid message has been received (via an Error Notification message, assuming that the sender can be determined from the content of the malformed message).
- When a MS sends, via XML over HTTPS (i.e. asynchronously), a request or response to the Hub, the Hub will answer with the HTTP '202' status code, (e.g. "HTTP/1.1 202"). Similarly, an HTTP '200' or HTTP '202' status code must be returned when the Hub posts successfully to the MS.
- When a MS sends a message via a synchronous connection the Hub will response with an HTTP '200' status code and the response XML will be returned in the body of the response.
- Each MS (as well as the Hub) must be designed to cope with potential communication and server problems (e.g. 'HTTP 500' returned by the Hub, final response not received from the Hub within time, timeout); or if an XML message (request or response) has not been acknowledged with the HTTP '200' or '202' status code. If the Hub is not able to send the message (request or response) to the destination MS it will send a message with an appropriate status code to the message originator.
- The Hub provides two separate URL addresses, one for request messages and one for response messages. This helps the Hub to prioritise the messages and the MS are requested to implement the same pattern.

5.3. Asynchronous and Synchronous Message Patterns

ERRU 3.5 will continue to provide for the exchange of messages over both synchronous and asynchronous connections. All connections between the Hub and MS must use HTTP as the underlying transport; the Commission will not open the firewall to other protocols.

Initially the two options for connections between the MS and the Hub will be:

- Asynchronous: XML over HTTP
- Synchronous: SOAP 1.1 over HTTP

Additionally, MOVE will consider, without obligation, requests from member states to implement additional protocols such that their applications can be more easily integrated with the Hub (e.g. JSON, ReST, OData).

The requirements and methodology to connect to the ERRU network can be found in the MOVEHUB Networking Guide [6].

Note that both the asynchronous and synchronous endpoints have changed for ERRU 3. For both the member state has been removed from the URL, all member states now use the same generic request and response URLs listed below. In addition, for ERRU 3 the EC will be enforcing mTLS, so the only domain available for ERRU 3 messages is *movehub.ec.testa.eu*; the *webgate.ec.testa.eu* domain will not be available. MS applications must be configured to supply the X.509 client certificate when sending requests to the Hub.

5.3.1. *Asynchronous End-Points*

Messages exchanged asynchronously with the Hub will operate in ERRU 3.5 in the same fashion as the current ERRU 2.4. The XML will be POSTed to the Hub URL and the XML response message will be POSTed to the MS SPOC.

The URLs exposed by the Hub will change for ERRU 3.5 to enforce mTLS connections:

<https://movehub.ec.testa.eu/erru/http/request/btshttpreceive.dll>

<https://movehub.ec.testa.eu/erru/http/response/btshttpreceive.dll>

5.3.2. *Synchronous End-Points*

The Hub exposes two web services: a request-response (2-way) service for normal business messages and a 1-way service for Error Notification messages. The synchronous messaging endpoints have a similar convention to the asynchronous URLs:

<https://movehub.ec.testa.eu/erru/soap/one-way/erru.svc>

<https://movehub.ec.testa.eu/erru/soap/request/erru.svc>

The WSDL for each service can be obtained directly from the service itself:

<https://movehub.ec.testa.eu/erru/soap/one-way/erru.svc?wsdl>

<https://movehub.ec.testa.eu/erru/soap/request/erru.svc?wsdl>

5.3.2.1. *2-Way Synchronous Messages*

Data will be exchanged as typed XML in the SOAP body. The 2-way web service is to send business requests to the Hub and to receive the business response. If there is a failure during the processing of the request an Error Notification will be returned in the soap Fault channel.

An example of a CGR request is:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <CheckGoodRepute_Request xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
      <Header version="3.1"
        technicalId="afbacb8a-b313-4daa-881b-7b7a65204b69"
        workflowId="446940dc-eb68-4462-9424-4893ce051fdb"
        sentAt="2016-01-01T00:00:00Z"
        timeoutValue="2016-01-01T00:00:20Z"
        from="IE"
        to="ZZ"/>
      <Body businessCaselId="CGR Request Example"
        originatingAuthority="IE Competent Authority"
        requestPurpose="Other"
        requestSource="Other">
        <SearchedTransportManager>
          <TransportManagerNameDetails familyName="Creighton-Ward"
            firstName="Penelope"
            dateOfBirth="1939-12-24"
            familyNameSearchKey="CRAGTANWAD"
            firstNameSearchKey="PANALAP"/>
          <TransportManagerCertificateDetails certificateNumber="CPC004"
            certificateIssueDate="2012-01-31"
            certificateIssueCountry="UK"/>
        </SearchedTransportManager>
      </Body>
    </CheckGoodRepute_Request>
  </soapenv:Body>
</soapenv:Envelope>
```

Figure 3 – Request-Response SOAP Message Request Example

And the corresponding response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <CheckGoodRepute_Response xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
      <Header version="3.1"
        technicalId="f148c54c-488f-42bc-bae1-8eb09e8f7a3f"
        workflowId="446940dc-eb68-4462-9424-4893ce051fdb"
        sentAt="2016-01-01T00:00:05Z"
        from="EU"
        to="IE"/>
      <Body businessCaselId="CGR Notification Example"
        originatingAuthority="IE Competent Authority">
        <SearchedTransportManager>
          <TransportManagerNameDetails
            familyName="Creighton-Ward"
            firstName="Penelope"
            dateOfBirth="1939-12-24"
            familyNameSearchKey="CRAGTANWAD"
            firstNameSearchKey="PANALAP"/>
          <TransportManagerCertificateDetails
            certificateNumber="CPC004"
            certificateIssueDate="2012-01-31"
            certificateIssueCountry="UK"/>
        </SearchedTransportManager>

        <MemberState memberStateCode="AT" statusCode="NotFound"/>
        <MemberState memberStateCode="BE" statusCode="NotFound"/>

        <!-- Multiple other countries -->

        <MemberState memberStateCode="UK" statusCode="Found">
          <TransportManagerDetails respondingAuthority="UK Competent Authority"
            searchMethod="CPC">
            <TransportManagerNameDetails
              familyName="Creighton-Ward"
              firstName="Penelope"
              dateOfBirth="1939-12-24"
              placeOfBirth="London"/>
            <TransportManagerAddressDetails address="Address Line 1"
              postCode="W1"
              city="London"
              country="UK"/>
            <TransportManagerCertificateDetails
              certificateNumber="CPC004"
              certificateIssueDate="2012-01-31"
              certificateIssueCountry="UK"
              certificateValidity="Invalid">
              <Fitness
                fitnessStatus="Unfit"
                unfitStartDate="2015-12-09"
                unfitEndDate="2016-06-09"/>
            </TransportManagerCertificateDetails>
            <TransportUndertakings
              totalManagedUndertakings="1"
              totalManagedVehicles="7">
              <TransportUndertaking transportUndertakingName="International Rescue"
                numberOfVehicles="7"
                communityLicenceNumber="CL-IR-000001-001"
                communityLicenceStatus="Active">
                <TransportUndertakingAddress address="Tracy Villa"
                  postCode="SP1"
                  city="Tracy Island"
                  country="UK"/>
              </TransportUndertaking>
            </TransportUndertakings>
          </TransportManagerDetails>
        </MemberState>
      </Body>
    </CheckGoodRepute_Response>
  </soapenv:Body>
</soapenv:Envelope>
```

Figure 4 – Request-Response SOAP Message Response Example

And the fault (in place of a response):

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <s:Fault>
      <faultcode>s:CustomError</faultcode>
      <faultstring xml:lang="fr-BE">CustomError</faultstring>
      <detail>
        <ErrorNotification xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
          <Header version="3.1"
            technicalId="5a4b12de-272a-41ed-a27c-37622d9a2528"
            workflowId="74531ce0-d6ab-4632-bb01-cd589f55ac08"
            sentAt="2016-01-01T00:00:00Z"
            from="IE"
            to="EU"/>
          <Body businessCaselId="Error Notification Example"
            statusCode="InvalidFormat"
            statusMessage="WFC: Element Type Match: End tag name 'CheckGoodRepute_Request' does
              not match start tag name 'Body'.">
            <OriginalMessage>
              &lt;CheckGoodRepute_Request xmlns="https://webgate.ec.testa.eu/erru/3.1"&gt;&lt;Header
                version="3.1"&gt; technicalId="afbacb8a-b313-4daa-881b-7b7a65204b69"&gt; workflowId="446940dc-
                eb68-4462-9424-4893ce051fdb"&gt; sentAt="2016-01-01T00:00:00Z"&gt; timeoutValue="2016-01-
                01T00:00:20Z"&gt; from="IE"&gt; to="ZZ"&gt; &lt;Body businessCaselId="CGR Request
                Example"&gt; originatingAuthority="IE Competent Authority"&gt; requestPurpose="Other"&gt;
                requestSource="Other"&gt;&lt;SearchedTransportManager&gt; &lt;TransportManagerNameDetails
                familyName="Creighton-Ward"&gt; firstName="Penelope"&gt; dateOfBirth="1939-12-24"&gt;
                familyNameSearchKey="CRAGTANWAD"&gt;
                firstNameSearchKey="PANALAP"&gt;&lt;TransportManagerCertificateDetails
                certificateNumber="CPC004"&gt; certificateIssueDate="2012-01-31"&gt;
                certificateIssueCountry="UK"&gt;&lt;/SearchedTransportManager&gt;&lt;/CheckGoodRepute_Request&gt;
              </OriginalMessage>
            </Body>
          </ErrorNotification>
        </detail>
      </s:Fault>
    </s:Body>
  </s:Envelope>
```

Figure 5 – Request-Response SOAP Message Fault Example

The operations and types available in the 2-way web service are:

Operation	Request & Response Messages	Schema / Type
CheckGoodRepute_Request	ERRU_CheckGoodRepute_Request_InputMessage	CheckGoodRepute_Request
	ERRU_CheckGoodRepute_Request_OutputMessage	CheckGoodRepute_Response
CheckTransportUndertakingData_Request	ERRU_CheckTransportUndertakingData_Request_InputMessage	CheckTransportUndertakingData_Request
	ERRU_CheckTransportUndertakingData_Request_OutputMessage	CheckTransportUndertakingData_Response
NotifyCheckResult_Request	ERRU_NotifyCheckResult_Request_InputMessage	NotifyCheckResult_Request
	ERRU_NotifyCheckResult_Request_OutputMessage	NotifyCheckResult_Acknowledgement
NotifyCheckResult_Response	ERRU_NotifyCheckResult_Response_InputMessage	NotifyCheckResult_Response
	ERRU_NotifyCheckResult_Response_OutputMessage	NotifyCheckResult_Acknowledgement
NotifyUnfitness_Request	ERRU_NotifyUnfitness_Request_InputMessage	NotifyUnfitness_Request
	ERRU_NotifyUnfitness_Request_OutputMessage	NotifyUnfitness_Acknowledgement
RoadSideInspection_Request	ERRU_RoadSideInspection_Request_InputMessage	RoadSideInspection_Request
	ERRU_RoadSideInspection_Request_OutputMessage	RoadSideInspection_Response
Fault	ErrorNotificationFault_FaultMessage	ErrorNotification

5.3.2.2. 1-Way Synchronous Messages

The 1-Way web service is available for either the Hub or a MS to send an Error Notification to the other when the business message pattern fails, i.e. if the response is invalid.

Section 7.7 provides a description of the ErrorNotification message and how it is used within the message exchange. Figure 24 and Figure 25 show the use of the ErrorNotification message when a request is invalid. For synchronous messaging these ErrorNotification messages are returned on the soap fault channel.

Conversely, Figure 26 and Figure 27 depict errors in the response message. In these cases the sender of the response considers the message exchange complete and for synchronous messaging the protocol connection is closed. If the response message is invalid the recipient of the message needs a method to inform the responder of the error. For synchronous messaging this is provided by the 1-way web service; an ErrorNotification message is sent and no response (other than the technical HTTP 200 / 202 and an empty body) is received.

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <s:Fault>
      <faultcode>s:CustomError</faultcode>
      <faultstring xml:lang="fr-BE">CustomError</faultstring>
      <detail>
        <ErrorNotification xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
          <Header version="3.1"
            technicalId="5a4b12de-272a-41ed-a27c-37622d9a2528"
            workflowId="74531ce0-d6ab-4632-bb01-cd589f55ac08"
            sentAt="2016-01-01T00:00:00Z"
            from="IE"
            to="EU"/>
          <Body businessCaselId="Error Notification Example"
            statusCode="InvalidFormat"
            statusMessage="WFC: Element Type Match: End tag name 'CheckGoodRepute_Request'
              does not match start tag name 'Body'.">
            <OriginalMessage>
              &lt;CheckGoodRepute_Request xmlns="https://webgate.ec.testa.eu/erru/3.1">&lt;Header
                version="3.1">&lt;technicalId="afbacb8a-b313-4daa-881b-7b7a65204b69">
                workflowId="446940dc-eb68-4462-9424-4893ce051fdb">
                sentAt="2016-01-01T00:00:00Z">
                timeoutValue="2016-01-01T00:00:20Z">
                from="IE">
                to="ZZ">&lt;Body
                businessCaselId="CGR Request Example">
                originatingAuthority="IE Competent Authority">
                requestPurpose="Other">
                requestSource="Other">&lt;SearchedTransportManager>
                &lt;TransportManagerNameDetails familyName="Creighton-Ward">
                firstName="Penelope">
                dateOfBirth="1939-12-24">
                familyNameSearchKey="CRAGTANWAD">
                firstNameSearchKey="PANALAP">&lt;TransportManagerCertificateDetails
                certificateNumber="CPC004">
                certificateIssueDate="2012-01-31">
                certificateIssueCountry="UK">&lt;SearchedTransportManager>&lt;CheckGoodRepute_Request>
              </OriginalMessage>
            </Body>
          </ErrorNotification>
        </detail>
      </s:Fault>
    </s:Body>
  </s:Envelope>
```

Figure 6 – One-Way SOAP Message Request Example

And the corresponding response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body/>
</soapenv:Envelope>
```

Figure 7 – One-Way SOAP Message Response Example

The operations and types available in the 1-way web service are:

Operation	Request & Response Messages	Schema / Type
ErrorNotification	ERRU_ErrorNotification_InputMessage	ErrorNotification
	ERRU_ErrorNotification_OutputMessage	None

5.3.3. *Mixed End-Points*

MS may choose to use synchronous messaging to send requests to the Hub from multiple agencies, but also to receive forwarded requests from other MS as asynchronous connections to the National Contact Points (NCP).

5.4. ERRU vs RSI Contact Points

ERRU NCPs are mandated by Article 18(1) of Regulation (EC) No 1071/2009 [4] via which the Member States' Road Transport Undertakings Registers are interconnected. For the purposes of the electronic exchange of ERRU messages this is assumed to be the single point of contact (SPOC) for ERRU messages.

RSI Contact Points (CP), established by Article 17(1) of Directive 2014/47/EU, are mandated by Article 18(1) of that Directive [5] for the exchange of notifications of dangerous deficiencies in a vehicle's condition. For the purposes of the electronic exchange of RSI messages this is assumed to be the single point of contact (SPOC) for RSI messages.

n.b. the ERRU NCP and RSI CP do not have to exist in the same administration within a Member State.

5.5. Multiple Points of Contact

From its inception ERRU has operated on the principle that there is a single point of contact (SPOC) for all communication between member states, both technically and administratively, and this function is fulfilled by the competent authority.

The technical implementation of this is that there is a single URL to which ERRU messages are sent and if any further national routing is required to direct a message to a specific administration within the MS then it is managed within the national network and transparent to the Hub.

In the build up to version 2.4 MOVE received requests to extend the SPOC model such that the competent authority and inspectorate authority (and any other authorised administration) in a member state may have separate ERRU end points – messages will be directed to a different URLs for CIA traffic and enforcement traffic. Once consideration is given to the abandonment of a SPOC to allow two endpoints it is only a small conceptual step to go from two endpoints to multiple endpoints.

This requirement fits with the synchronous messaging pattern (see 5.3.2 above) as the response is returned on the same HTTP connection, so by definition the response is returned to whoever initiated the request.

Multiple endpoints only apply to request messages from the MS to the Hub (the Hub receives requests from multiple end points in a MS and returns synchronous responses to those endpoint) as:

- All requests forwarded to a country are for the CIA, enforcement authorities do not receive ERRU requests.
- If a member state has multiple administrations then neither the requesting member state nor the Hub will know to which administration a request needs to be routed, this will still need to be managed behind the SPOC and within the national network.

Therefore, all requests forwarded to a MS will still be routed via a single URL, and responses via the asynchronous messaging pattern will also be sent to a single URL.

5.6. Message Structure

The structure of every XML message is the same and described in the below table:

Element Name	Description
Root element	The root element of each XML message gives the name, namespace and version of the message.
Header	There is always a Header node giving non-business information about the current workflow (such as workflow and message identifiers, the ISO country codes of the counterparties, sending and expiration timestamps, etc.).
Body	There is always a Body node giving the business information of the current workflow. Such business information consists of one or more elements with attributes containing relevant data.

The elements used in XML messages define only the structure of the message and contain no data; all the data is contained in attributes of the elements. The naming conventions for elements and attributes are:

Node Type	Description
Element	The naming standard for elements is Pascal cased, e.g.: <ul style="list-style-type: none">• <i>Header</i>• <i>SearchedTransportManager</i>• <i>SeriousInfringement</i>
Attribute	The naming standard for attributes is camel cased, e.g.: <ul style="list-style-type: none">• <i>from</i>• <i>workflowId</i>• <i>communityLicenceNumber</i>

The XML Schema Definition (XSD) of all the XML messages is supplied separately in an electronic format. The namespace of the ERRU XSD specifications is <https://webgate.ec.testa.eu/move-hub/erru/3.1> and must be specified as an *xmlns* attribute in the root element of every XML message.

The version of the XSD specification and resulting XML messages will be detailed in the namespace and version attributes of the message root. The version number (n.m) is a defined and fixed value in every release of XML Schema Definition file (XSD).

When sending and receiving an XML message, both the Hub and the MS must check whether the XML message is well formed and conforms to XML syntax rules.

5.7. Standardisation of XML Messages

5.7.1. Schema Version

The version of the XSD specification and resulting XML messages will be detailed in the namespace and version attributes of the message root. The version number (n.m) is a defined and fixed value in every release of XML Schema Definition file (XSD).

5.7.2. Encoding

All messages will be exchanged in UTF-8. If the encoding directive (`<?xml version="1.0" encoding="UTF-8"?>`) is missing from the message UTF-8 will be enforced by the Hub. If the encoding specifies something different (e.g. `<?xml version="1.0" encoding="UTF-16"?>`) then it will be discarded and UTF-8 will be enforced. Any errors resulting from enforcing UTF-8 encoding will be returned to the sender via an Error Notification message.

5.7.3. *Namespaces*

The namespace of the ERRU messages is *https://webgate.ec.testa.eu/move-hub/erru/3.5* and this is declared in the XSDs as the default and target namespaces:

```
<xs:schema xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.5"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  targetNamespace="https://webgate.ec.testa.eu/move-hub/erru/3.1"
  elementFormDefault="qualified"
  attributeFormDefault="unqualified" >
```

And in the ERRU messages as the default namespace:

```
<CheckTransportUndertakingData_Request xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
```

MS are free to declare their own namespace prefixes as long as the namespace conforms to the published XSD version. MS must also be prepared to receive messages with custom namespace definitions, e.g.

```
<ms1:CheckTransportUndertakingData_Request xmlns:ms1="https://webgate.ec.testa.eu/move-hub/erru/3.1">
```

5.7.4. *Optional Attributes*

Optional attributes may be omitted from the message but if they are present they must have valid content. If an optional attribute is present and contains content then it will be validated against the schema.

All string attributes in the ERRU schemas are declared as *token* and have a minimum length of one. Therefore, an optional attribute with any of the following contents is invalid against the XSD:

- Zero-length string
- Single space (#x20)
- Multiple spaces (#x20#x20)

5.7.5. *Message Header*

All information needed to route all messages should be found in the *Header* and not in the *Body* of the XML message. The header format for all messages is identical.

The contents of the *Header* are:

Attribute Name	Description
version	The official version of the XML specifications will be detailed in the namespace defined in the message XSD and in the version attribute of the Header element of any XML message. The version number ('n.m') will be defined as a fixed value in every release of the XML Schema Definition file (.xsd). The current version number is '3.5'.
testId	Optional id for testing, see 5.7.7.1 below
technicalId	A UUID uniquely identifying each individual message, see 5.7.7.2 below.
workflowId	The WorkflowId is used to associate all messages in the same workflow, see 5.7.7.3 below.
sentAt	The date and time (UTC) that the message was sent.
timeoutValue	This is an optional date and time attribute in UTC format. This value will be set by the Hub and will inform the responding MS of the time when the request will be timed out at the Hub.
from	The ISO 3166-1 Alpha 2 country code of the originating (requesting) MS sending the message or 'EU' for messages originating from the Hub (e.g. EN messages & CGR broadcast responses).
to	The ISO 3166-1 Alpha 2 letter country code of the MS to which the message is sent; i.e. responding MS.

5.7.6. *Message Body*

All business information that is exchanged between administrations is contained within the *Body* element of the message. The Body element of the request messages has the same three attributes:

Attribute Name	Description
businessCaseId	A reference number given by the originating Member State, see 5.7.7.4 below.
requestSource	The function of the administration / authority from which the request originates. Possible values are: CA (Competent Authority), RSI (Roadside Inspection), Hub, Other
requestPurpose	The business purpose of the request. Possible values are: Issue, Control, Heartbeat, Other

5.7.7. Identifier Definitions in XML Messages

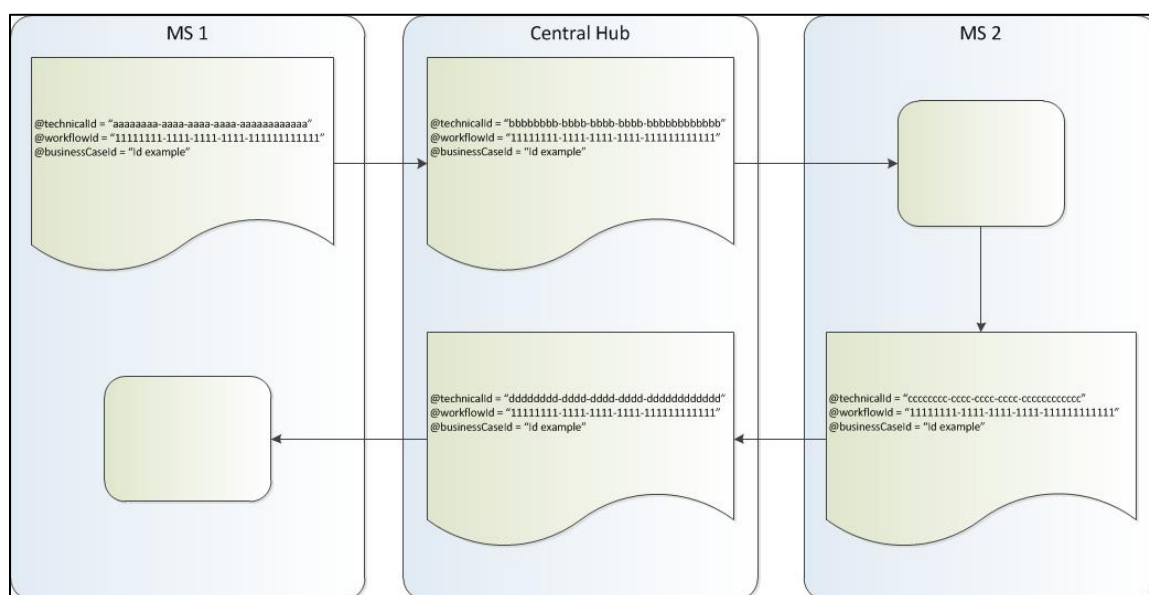


Figure 8 - Message Identifiers

As the exchange of XML messages between the MS and the Hub may be asynchronous, there are four attributes used to identify messages and workflows.

The UUID hexadecimal digits can be in lowercase or uppercase. The Hub does not guarantee that the case of hexadecimal digits is preserved when forwarding requests or returning responses. Therefore, MS must ensure that their applications are case agnostic when handling UUID attributes.

The implementation of a UUID algorithm will be dependent on the programming language being used. MS should choose a language that implements, at minimum, version 4 of the UUID standard¹².

5.7.7.1. testId

This is an optional identifier (length 8) for testing purposes only. The originator of the test will populate the identifier and the Hub will return the same identifier in the associated response. Any content in this attribute does not affect the processing of a request and responding MS do not need to populate this attribute.

5.7.7.2. technicalId

This is a UUID uniquely identifying each individual message, every message created by either the MS or the Hub will have a new *technicalId*. The sender of the message generates a UUID and populates this attribute. This data is not used in any business capacity; it's purpose is to uniquely identify a message when troubleshooting problems.

MS applications should generate this identifier as close as possible to the actual dispatch of a message to avoid potential bugs allowing duplicate identifiers to be used. The purpose of this identifier is lost if a MS emits messages with the same UUID.

5.7.7.3. workflowId

The *workflowId* is a UUID and is generated by the requesting MS and this identifier is then used to associate and correlate subsequent messages in the workflow. The *workflowId* is present in all messages and must be the same for related messages. This identifier is not considered as business data, is a

¹ https://en.wikipedia.org/wiki/Universally_unique_identifier.

² <https://tools.ietf.org/html/rfc4122>.

technical attribute used by the Hub and MS applications to associate all the individual messages that comprise a complete workflow.

The Hub validates that, for each request received, the *workflowId* is unique across all member states and all requests.

5.7.7.4. *businessCaseId*

The *businessCaseId* identifier is an attribute of the body element of every message. It is the same length as a UUID canonical string representation³, but free-format. This identifier is similar to the *workflowId* in that it associates the individual messages in a workflow. However, it differs from the *workflowId* in a number of areas:

- Both the *businessCaseId* and the *workflowId* allow responses to be correlated with the originating request; the former is intended as a business data identifier and the latter as a technical data identifier.
- The *businessCaseId* is a free format string (rather than enforcing a UUID) allowing the requesting MS to create identifiers with business meaning, e.g. combinations of card application type, date, handling officer, file number, etc. Alternatively, a UUID may be used in this attribute.
- When the Hub receives new requests the *workflowId* is validated for uniqueness (across all MS and all message types). The *businessCaseId* is not validated and it is the responsibility the requesting MS to ensure that, if they intend to make use of the *businessCaseId*, then their application generates suitable identifiers.
- As the Hub does not enforce the uniqueness of the *businessCaseId* MS applications must be able to process messages that have the same *businessCaseId* values as messages from the same or other MS(s).

5.8. Message Timeout

A request / notification message to the Hub always has a timeout value attached to it (apart from Error Notification messages), and the mechanism of this timeout depends on whether a synchronous or asynchronous messaging pattern is being used.

All messages have a maximum request-response timeout of 20 seconds at the originating MS and 10 seconds at the responding MS. The calculation and management of the timeout is dependent on the messaging pattern: asynchronous or synchronous.

5.8.1. Asynchronous Timeout

When an asynchronous message is received the Hub will return an HTTP 202 response and record the time that the message was received. The Hub will use the received at time to calculate the time that the originating MS is expecting a response.

The Hub will forward the message to the counterparty MS(s) and populate the Header attribute timeout with a date time value notifying the responding MS by what time they must respond to the Hub. The Hub waits for responses until this time is reached, and when this time is reached the Hub no longer accepts anymore responses and begins the process of returning the final response to the originating MS.

If all the response(s) is / are received before the timeout then the Hub completes the workflow and returns an 'early' response to the originating MS.

If no responses have been received the Hub, or only some responses, the Hub will return a response message at 20 seconds containing any responses received up to that point.

³ Length 36 - 32 hexadecimal digits and four hyphens.

5.8.2. Synchronous Timeout

The same 20 second timeout applies to synchronous messages and will be enforced on the synchronous connection made to the Hub; either the Hub will have returned an 'early' response message within the 20 second timeout, or a response with a *Timeout* status will be returned.

6. MESSAGE VALIDATION

When sending and receiving an XML message, the Hub and the CIA applications must check whether it is a 'well formed' XML document (i.e. a document that conforms to the XML syntax rules) and must validate it against its XML Schema definition (XSD).

6.1. ISO Country Codes

The country codes used within the ERRU messages conform to the ISO 3166-1 Alpha 2 standard. The table below give the codes that are accepted by the Hub for the *To* and *From* attributes in the message Header.

n.b. GB is not accepted as a code for message routing, but it is still a valid value for any business data content of the message, such as the vehicle registration country.

ISO Code	Country	ISO Code	Country	ISO Code	Country
AT	Austria	FR	France	NL	Netherlands
BE	Belgium	GR	Greece	NO	Norway
BG	Bulgaria	HR	Croatia	PL	Poland
CY	Cyprus	HU	Hungary	PT	Portugal
CZ	Czech Republic	IE	Ireland	RO	Romania
DE	Germany	IT	Italy	SE	Sweden
DK	Denmark	LT	Lithuania	SI	Slovenia
EE	Estonia	LU	Luxembourg	SK	Slovakia
ES	Spain	LV	Latvia		
FI	Finland	MT	Malta		

6.2. Status Codes and Status Messages

The status codes available for use by the responding MS depend on the type of response being created. For the business responses listed below (CGR, CTUD, NCR, RSI) the Timeout and NotAvailable status codes are for the use of the Hub when returning the response to the requesting MS. They are not for use in the MS to Hub responses. In scenarios where a responding MS considers either of these statuses to be necessary an Error Notification message should be used instead (see 7.7).

6.2.1. *CGR and CTUD Responses*

Attribute Value	Description
Found	At least one matching transport manager / undertaking found by the responding MS.
NotFound	No matching transport manager / undertaking found by the responding MS.
Timeout	A valid response message has not been received from the responder within the timeout period.
NotAvailable	The responding MS is not available within ERRU at the time of the request.

6.2.2. NCR Responses

Attribute Value	Description
OK	The responding MS has received and processed the notification without issue.
NotFound	The notified transport undertaking was not found in the ERRU register.

6.2.3. NCR Acknowledgements

Attribute Value	Description
OK	The NCR message (request or response) has been received.
Timeout	A valid acknowledgement message has not been received from the responder within the timeout period.
NotAvailable	The responding MS is not available within ERRU at the time of the request.

6.2.4. RSI Responses

Attribute Value	Description
OK	The RSI message request has been received.
Timeout	A valid response message has not been received from the responder within the timeout period.
Not Found	No matching transport undertaking or vehicle could be found.
NotAvailable	The responding MS is not available within ERRU at the time of the request.

6.2.5. Invalid Responses

Any processing failure, either business or technical, will be notified to the concerned parties via the Error Notification message.

The status code attribute of this message may contain the following values.

Attribute Value	Description
InvalidData	The XML message is well-formed but the data fails business validation.
InvalidFormat	The format of the message received does not conform to the message schema or the XML is not well-formed.
Timeout	The corresponding XML response message has not been received within time.
ServerError	The corresponding XML response message has not been successfully processed due to a server problem.
NotAvailable	The responding MS is not yet connected to the Hub.
ResponseNotCorrelated	A MS or the Hub has received a response message which cannot be matched to a request.
DuplicateRequest	A request with the same <i>workflowId</i> has been previously received.
DuplicateResponse	A response with the same <i>workflowId</i> has been previously received.
Other	For any other error.

6.2.6. *Status Message*

Attached to every *statusCode* attribute, there's always a corresponding *statusMessage* attribute that can be used to specify an optional message giving more detailed information about the status code value.

Failure status codes should always be accompanied by an explanatory status message.

Any data in this attribute should preferably be entered in English.

6.3. Date and Time

ERRU uses ISO 8601 date and time formats.

6.3.1. *Date*

Calendar date representations are ISO 8601 compliant and constrained by the XSD to be [YYYY]-[MM]-[DD].

- [YYYY] indicates a four digit year, 0000 through 9999.
- [MM] indicates a two digit month of the year, 01 through 12.
- [DD] indicates a two digit day of that month, 01 through 31.

e.g.:

- 2016-04-23

6.3.2. *Datetime*

Time representations are also ISO 8601 compliant and use the 24-hour clock. Time values in the messages will always have a date associated with them – there are no attributes that have a time value without a date. The *date* and *time* elements of the *datetime* value are separated by 'T'.

The ERRU messages use the extended time format which is [hh]:[mm]:[ss].

- [hh] indicates a two digit hour between 00 and 24 (where 24 is only used to notate midnight at the end of a calendar day).
- [mm] indicates a two digit minute between 00 and 59.
- [ss] indicates a two digit second between 00 and 60 (where 60 is only used to notate an added leap second).

6.3.2.1. UTC

All datetime values in the ERRU messages will be in UTC, not in local time. The ISO 8601 timezone designator for UTC is 'Z'. Therefore, all date time values in the ERRU messages are length 20 (19 datetime characters plus the Z timezone designator), e.g.:

- 2016-04-23T13:15:00Z

6.4. Hub Business Validation

Elementary business validation will be performed on the contents of messages passing through the Hub.

Message Type	Validation
All	That the originating authority on the response matches that on the request.
All	That the business case id on the response matches that on the request.
All	Status codes NotAvailable and Timeout are not valid values on MS responses (unless the message is an Error Notification).
All	That the from and to country codes correspond to connected and available countries.
All	That the from country code on the response matches the to country code on the request. And the to country code on the response matches the from country code on the request.
All	That the request purpose is not Heartbeat (only to be used by the hub).
CGR	If the transport manager's CPC status is 'Unfit', the end date of unfitness must be given.
CGR	If the response contains a transport manager that was found using the NYSIIS, the Hub will calculate the NYSIIS key for the found names and ensure that they match the keys supplied in the request.
CGR, CTUD	That the search criteria echoed in the response match those given in the request.
CGR, CTUD	The Hub will validate that the value of the status code in the response is logically consistent with the data content of the message. If the status code in the response is 'Found' that at least one transport manager / undertaking is supplied; and vice versa for 'NotFound' status codes.
CGR, NU	That the member state code in the header of the response matches that in the body of the response.
CTUD	That the value of the total managed vehicles attribute matches the sum of the number of vehicles attributes of the listed transport undertakings when requested all vehicles (<i>requestAllVehicles = true</i>).
CTUD	That the value of the total managed undertakings attribute matches the number of transport undertakings that are listed.
CTUD	The found transport undertaking's data must match at least one of the searched criteria supplied in the request (community licence number or transport undertaking name).

CTUD, NCR, RSI	That the <i>to</i> country code is not broadcast (ZZ)
NCR	The Hub will validate that the value of the status code in the response is logically consistent with the data content of the message. If the status code in the response is 'OK' the transport undertaking should be supplied; and vice versa for a status code of 'NotFound'.
NCR	If the NCR request listed one or more <i>PenaltiesRequested</i> then the NCR response must contain a <i>PenaltiesImposed</i> entry for each requested penalty.
NCR	That the penalty requested identifiers are unique in the message
NCR	That all 'not executed' penalties imposed (<i>isExecuted</i> = <i>false</i>) have a reason (<i>notExecutedReason</i>). And vice versa, that all 'executed' penalties imposed (<i>isExecuted</i> = <i>true</i>) not have reason (<i>notExecutedReason</i> must not exist).
NCR	That serious infringement pair type and category is allowed according to the legislation (Annex IV to Regulation (EC) No 1071/2009 and Annex I to Regulation (EU) 2016/403).
NCR	That a request without serious infringements is sent only to countries already using the new message type notify check result. Serious infringement was mandatory on the previous infringement request message version.
RSI	That all 'failed' checked items (<i>itemFailed</i> = <i>true</i>) have a failed check list (<i>FailedChecks</i>). And vice versa, that all 'not failed' checked items (<i>itemFailed</i> = <i>false</i>) do not have failed check lists (<i>FailedChecks</i> must not exist).
RSI	That the failed check pair reason and assessment is allowed according to the legislation (Annexes II and III of Directive 2014/47/EU).
RSI	That if the request purpose is Control and the request source is RSI

7. ERRU SERVICES

The ERRU network provides four services to CIAs and other authorised administrations to enable them to fulfil the requirements laid down in 1071/2009 [4] and 2014/47 [5].

A brief description of the ERRU messages, given in the following sections, focuses on the business and semantic content of the messages. The technical description of the messages can be found in the HTML and Word documentation ([7] and [8]) that are distributed alongside this document.

7.1. Messaging Services

Message Name	Description	Reference
CheckGoodRepute_Request	Search for a certificate of professional competence by certificate number or by transport manager name.	7.2
CheckGoodRepute_Response	Search for certificate of professional competence results.	
CheckTransportUndertakingData_Request	Search for a community licence by community licence number or by certified true copy number.	7.3
CheckTransportUndertakingData_Response	Search for community licence results.	
NotifyCheckResult_Request	Notification to a competent authority that a road transport undertaking (or one of its vehicles) has committed an infringement in another Member State.	7.4
NotifyCheckResult_Response	The Member State of registration responds to the Notification of Check Result detailing any sanctions that have / have not been applied.	
NotifyCheckResult_Acknowledgement	An acknowledgement of an Notification of Check Result or request or response.	
NotifyUnfitness_Request	Notification to a competent authority that a road transport manager has had his good repute withdrawn in another member state.	7.5
NotifyUnfitness_Acknowledgement	An acknowledgement of the receipt of the Notify of Unfitness.	
RoadSideInspection_Request	Notification to a competent authority that a vehicle has failed a road side inspection and detailing the failed categories.	7.6
RoadSideInspection_Response	A response confirming receipt of the road side inspection notification.	
ErrorNotification	A message received (by either the Hub or a MS) contains errors.	7.7

7.2. Check Good Repute (CGR)

The CGR service allows a MS to search the transport undertaking register in all other countries to determine if a transport manager has already been issued with a transport manager's licence (certificate of professional competence) in another country and, if so, the status of this licence.

The CGR service may be used in either singlecast or broadcast modes, i.e. the requesting MS may direct the Hub to forward the search request to a single counterparty MS or, alternatively, to all other MS.

A search request that is required to be broadcast to all other MS is denoted by entering "ZZ" in the *Header/@to* attribute.

The aggregated response that is returned to the requesting MS will have "EU" in the *Header/@from* attribute.

7.2.1. Search Mechanism

A search request message sent by a MS in the CGR workflow has the following two groups of relevant information to search for the details of a transport manager.

Certificate Group:

- CPC Number
- CPC Issue Date
- CPC Issue Country

Name Group:

- First Name
- Family Name
- Date of Birth
- Place of Birth (optional)
- Address [address, post code, city, country] (optional)

As in the 2.4 version of ERRU, name searches are done using the NYSIIS algorithm (see [9]).

The request may contain just the name details, just the certificate details or both and the search that is conducted at the responding MS depends on the data in the request message:

Request Data	Search Algorithm
Certificate details	<p>The CPC number is the primary search mechanism. Use the CPC number supplied to search for matching certificates in the ERRU register. For each match return the transport manager details.</p> <p>There should only be a single match but the schemas provide for multiple matches.</p>
Name details	<p>Use the NYSIIS key supplied to search for matching names in the ERRU register (plus a local algorithm search if necessary). For each match return the transport manager details.</p> <p>There may be multiple matches.</p>
Both name and certificate details	<p>Two / three searches of the ERRU register should be made – a name search using the NYSIIS keys (plus a local algorithm search if necessary) and a CPC search using the certificate number.</p> <p>The results from each search should be deduplicated and aggregated in the response.</p>

When searching by name the Hub adds the **first** First Name Search Key and Family Name Search Key to the Request message and sends the search request message to the counterparty MS(s). Responding MSs must use the date of birth and NYSIIS keys included in the request as the primary search mechanism to find matching records in their database. They may, optionally, use a customised local search mechanism to enhance the primary search. This secondary mechanism may, for example, use string pattern techniques or use the optional data (such as the address) if it is present in the request.

When searching by certificate number the responding MS will search for all entries matching the certificate data provided in the Request.

The responding MS returns the last certificate that was issued and found in the register. This certificate may either be:

- a current and valid certificate
- invalid for managing a transport undertaking (i.e. expired or unfit)

The transport manager address details are option in the CGR response. However, data should be provided to the requestor wherever possible. If the MS of registration records the transport manager address details in the transport undertakings register then this should be provided in the response; if not then the address of the transport undertaking should be supplied.

7.2.2. *Heartbeat*

To enable the monitoring of the ERRU network the Hub will emit heartbeat messages and monitor the responses. These heartbeat messages are simply CGR search requests that are ‘from’ the EU and contain search criteria that will result in a not found response. For example:

```
<?xml version="1.0" encoding="UTF-8"?>
<CheckGoodRepute_Request xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
  <Header version="3.1"
    technicalId="afbacb8a-b313-4daa-881b-7b7a65204b69"
    workflowId="446940dc-eb68-4462-9424-4893ce051fdb"
    sentAt="2016-01-01T00:00:00Z"
    timeoutValue="2016-01-01T00:00:20Z"
    from="EU"
    to="IE"/>
  <Body businessCaseId="CGR Request Example"
    originatingAuthority="Central Hub"
    requestPurpose="Heartbeat"
    requestSource="Hub">
    <SearchedTransportManager>
      <TransportManagerNameDetails familyName="Heartbeat"
        firstName="Heartbeat"
        dateOfBirth="1900-01-01"
        familyNameSearchKey="HARTBAT"
        firstNameSearchKey="HARTBAT"/>
    </SearchedTransportManager>
  </Body>
</CheckGoodRepute_Request>
```

Figure 9 - Heartbeat Message Example

7.2.3. *CGR Version Mappings*

7.2.3.1. *CGR v2.4 to v3.5*

The requesting Member State (MS1) sends a v2.4 CheckGoodRepute_Request message to the Hub. This is simply copied to a v3.5 CheckGoodRepute_Request message and forwarded to the responding Member State (MS2).

The only differences between v2.4 and v3.5 CheckGoodRepute_Response messages is that a Transport Manager Address Details element has been added to the v3.5 message and this is not supplied in the mapping:

CheckGoodRepute_Request (v2.4)	CheckGoodReputeRequest_Request (v3.5)	Notes
Body	Body	
businessCaseld	businessCaseld	
originatingAuthority	originatingAuthority	
Body/SearchedTransportManager	Body/SearchedTransportManager	
Body/SearchedTransportManager/ TransportManagerNameDetails	Body/SearchedTransportManager/ TransportManagerNameDetails	
familyName	familyName	
firstName	firstName	
dateOfBirth	dateOfBirth	
placeOfBirth	placeOfBirth	
n/a	familyNameSearchKey	Added by the Hub
n/a	firstNameSearchKey	Added by the Hub
n/a	Body/SearchedTransportManager/ TransportManagerNameDetails/ TransportManagerAddressDetails	Not supplied in search request
n/a	address	Not supplied in search request
n/a	postcode	Not supplied in search request

CheckGoodRepute_Request (v2.4)	CheckGoodReputeRequest_Request (v3.5)	Notes
n/a	city	Not supplied in search request
n/a	country	Not supplied in search request
Body/SearchedTransportManager/ TransportManagerCertificateDetails	Body/SearchedTransportManager/ TransportManagerCertificateDetails	
certificateNumber	certificateNumber	
certificateIssueDate	certificateIssueDate	
certificateIssueCountry	certificateIssueCountry	

The responding Member State (MS2) sends a v3.5 CheckGoodRepute_Response to the Hub. This is converted to a v2.4 CheckGoodRepute_Response and forwarded to the original requesting Member State (MS1).

The only differences between v2.4 and v3.5 CheckGoodRepute_Response messages is that a certificate validity attribute has been added to the v3.5 message and this is discarded in the mapping:

CheckGoodRepute_Response (v3.5)	CheckGoodReputeResponse (v2.4)	Notes
Body	Body	
businessCaseId	businessCaseId	
originatingAuthority	originatingAuthority	
Body/SearchedTransportManager	Body/SearchedTransportManager	
Body/SearchedTransportManager/ TransportManagerNameDetails	Body/SearchedTransportManager/ TransportManagerNameDetails	
familyName	familyName	
firstName	firstName	
dateOfBirth	dateOfBirth	
placeOfBirth	placeOfBirth	
familyNameSearchKey	familyNameSearchKey	

CheckGoodRepute_Response (v3.5)	CheckGoodReputeResponse (v2.4)	Notes
firstNameSearchKey	firstNameSearchKey	
<i>Body/SearchedTransportManager/ TransportManagerNameDetails/ TransportManagerAddressDetails</i>	n/a	Discarded
address	n/a	Discarded
postcode	n/a	Discarded
city	n/a	Discarded
country	n/a	Discarded
<i>Body/SearchedTransportManager/ TransportManagerCertificateDetails</i>	<i>Body/SearchedTransportManager/ TransportManagerCertificateDetails</i>	
certificateNumber	certificateNumber	
certificateIssueDate	certificateIssueDate	
certificateIssueCountry	certificateIssueCountry	
<i>Body/MemberState</i>	<i>Body/MemberState</i>	
memberStateCode	memberStateCode	
statusCode	statusCode	
statusMessage	statusMessage	
<i>Body/MemberState/TransportManagerDetails</i>	<i>Body/MemberState/TransportManagerDetails</i>	
respondingAuthority	respondingAuthority	
searchMethod	searchMethod	
<i>Body/MemberState/TransportManagerDetails/ TransportManagerNameDetails</i>	<i>Body/MemberState/TransportManagerDetails/ TransportManagerNameDetails</i>	
familyName	familyName	

CheckGoodRepute_Response (v3.5)	CheckGoodReputeResponse (v2.4)	Notes
firstName	firstName	
dateOfBirth	dateOfBirth	
placeOfBirth	placeOfBirth	
Body/MemberState/TransportManagerDetails/ TransportManagerAddressDetails	Body/MemberState/TransportManagerDetails/ TransportManagerAddressDetails	
address	address	
postCode	postCode	
city	city	
country	country	
Body/MemberState/TransportManagerDetails/ TransportManagerCertificateDetails	Body/MemberState/TransportManagerDetails/ TransportManagerCertificateDetails	
certificateNumber	certificateNumber	
certificateIssueDate	certificateIssueDate	
certificateIssueCountry	certificateIssueCountry	
certificateValidity	n/a	Discarded
Body/MemberState/TransportManagerDetails/ TransportManagerCertificateDetails/Fitness	Body/MemberState/TransportManagerDetails/ TransportManagerCertificateDetails/Fitness	
fitnessStatus	fitnessStatus	
unfitStartDate	unfitStartDate	
unfitEndDate	unfitEndDate	
Body/MemberState/TransportManagerDetails/ TransportUndertakings	Body/MemberState/TransportManagerDetails/ TransportUndertakings	
totalManagedUndertakings	totalManagedUndertakings	
totalManagedVehicles	totalManagedVehicles	

CheckGoodRepute_Response (v3.5)	CheckGoodReputeResponse (v2.4)	Notes
Body/MemberState/TransportManagerDetails/TransportUndertakings/TransportUndertaking	Body/MemberState/TransportManagerDetails/TransportUndertakings/TransportUndertaking	
transportUndertakingName	transportUndertakingName	
numberOfVehicles	numberOfVehicles	
communityLicenceNumber	communityLicenceNumber	
communityLicenceStatus	communityLicenceStatus	
Body/MemberState/TransportManagerDetails/TransportUndertakings/TransportUndertaking/TransportUndertakingAddress	Body/MemberState/TransportManagerDetails/TransportUndertakings/TransportUndertaking/TransportUndertakingAddress	
address	address	
postcode	postcode	
city	city	
country	country	

7.2.3.2. CGR v3.5 to v2.4

The requesting Member State (MS1) sends a v3.5 CheckGoodRepute_Request message to the Hub. This is simply copied to a v2.4 CheckGoodRepute_Request message and forwarded to the responding Member State (MS2).

The only differences between v2.4 and v3.5 CheckGoodRepute_Response messages is that a Transport Manager Address Details element has been added to the v3.5 message and this is discarded in the mapping:

CheckGoodRepute_Request (v3.5)	CheckGoodReputeRequest_Request (v2.4)	Notes
Body	Body	
businessCaseld	businessCaseld	
originatingAuthority	originatingAuthority	

CheckGoodRepute_Request (v3.5)	CheckGoodReputeRequest_Request (v2.4)	Notes
Body/SearchedTransportManager	Body/SearchedTransportManager	
Body/SearchedTransportManager/ TransportManagerNameDetails	Body/SearchedTransportManager/ TransportManagerNameDetails	
familyName	familyName	
firstName	firstName	
dateOfBirth	dateOfBirth	
placeOfBirth	placeOfBirth	
n/a	familyNameSearchKey	Added by the Hub
n/a	firstNameSearchKey	Added by the Hub
Body/SearchedTransportManager/ TransportManagerNameDetails/ TransportManagerAddressDetails	n/a	Discarded
address	n/a	Discarded
postcode	n/a	Discarded
city	n/a	Discarded
country	n/a	Discarded
Body/SearchedTransportManager/ TransportManagerCertificateDetails	Body/SearchedTransportManager/ TransportManagerCertificateDetails	
certificateNumber	certificateNumber	
certificateIssueDate	certificateIssueDate	
certificateIssueCountry	certificateIssueCountry	

The responding Member State (MS2) sends a v2.4 CheckGoodRepute_Response to the Hub. This is converted to a v3.5 CheckGoodRepute_Response and forwarded to the original requesting Member State (MS1).

The only differences between v2.4 and v3.5 CheckGoodRepute_Response messages is that certificate validity attribute has been added to the v3.5 message and this is defaulted in the mapping:

CheckGoodRepute_Response (v2.4)	CheckGoodReputeResponse (v3.5)	Notes
Body	Body	
businessCaselId	businessCaselId	
originatingAuthority	originatingAuthority	
Body/SearchedTransportManager	Body/SearchedTransportManager	
Body/SearchedTransportManager/ TransportManagerNameDetails	Body/SearchedTransportManager/ TransportManagerNameDetails	
familyName	familyName	
firstName	firstName	
dateOfBirth	dateOfBirth	
placeOfBirth	placeOfBirth	
familyNameSearchKey	familyNameSearchKey	
firstNameSearchKey	firstNameSearchKey	
Body/SearchedTransportManager/ TransportManagerCertificateDetails	Body/SearchedTransportManager/ TransportManagerCertificateDetails	
certificateNumber	certificateNumber	
certificateIssueDate	certificateIssueDate	
certificateIssueCountry	certificateIssueCountry	
Body/MemberState	Body/MemberState	
memberStateCode	memberStateCode	
statusCode	statusCode	

CheckGoodRepute_Response (v2.4)	CheckGoodReputeResponse (v3.5)	Notes
statusMessage	statusMessage	
Body/MemberState/TransportManagerDetails	Body/MemberState/TransportManagerDetails	
respondingAuthority	respondingAuthority	
searchMethod	searchMethod	
Body/MemberState/TransportManagerDetails/ TransportManagerNameDetails	Body/MemberState/TransportManagerDetails/ TransportManagerNameDetails	
familyName	familyName	
firstName	firstName	
dateOfBirth	dateOfBirth	
placeOfBirth	placeOfBirth	
Body/MemberState/TransportManagerDetails/ TransportManagerAddressDetails	Body/MemberState/TransportManagerDetails/ TransportManagerAddressDetails	
address	address	
postCode	postCode	
city	city	
country	country	
Body/MemberState/TransportManagerDetails/ TransportManagerCertificateDetails	Body/MemberState/TransportManagerDetails/ TransportManagerCertificateDetails	
certificateNumber	certificateNumber	
certificateIssueDate	certificateIssueDate	
certificateIssueCountry	certificateIssueCountry	
n/a	certificateValidity	If @fitnessStatus = 'Fit' then 'Valid' If @fitnessStatus = 'Unfit' then 'Invalid'

CheckGoodRepute_Response (v2.4)	CheckGoodReputeResponse (v3.5)	Notes
Body/MemberState/TransportManagerDetails/ TransportManagerCertificateDetails/Fitness	Body/MemberState/TransportManagerDetails/ TransportManagerCertificateDetails/Fitness	
fitnessStatus	fitnessStatus	
unfitStartDate	unfitStartDate	
unfitEndDate	unfitEndDate	
Body/MemberState/TransportManagerDetails/ TransportUndertakings	Body/MemberState/TransportManagerDetails/ TransportUndertakings	
totalManagedUndertakings	totalManagedUndertakings	
totalManagedVehicles	totalManagedVehicles	
Body/MemberState/TransportManagerDetails/ TransportUndertakings/TransportUndertaking	Body/MemberState/TransportManagerDetails/ TransportUndertakings/TransportUndertaking	
transportUndertakingName	transportUndertakingName	
numberOfVehicles	numberOfVehicles	
communityLicenceNumber	communityLicenceNumber	
communityLicenceStatus	communityLicenceStatus	
Body/MemberState/TransportManagerDetails/ TransportUndertakings/TransportUndertaking/ TransportUndertakingAddress	Body/MemberState/TransportManagerDetails/ TransportUndertakings/TransportUndertaking/ TransportUndertakingAddress	
address	address	
postcode	postcode	
city	city	
country	country	

7.2.4. *CGR Request Message Sample*

```
<?xml version="1.0" encoding="UTF-8"?>
<CheckGoodRepute_Request xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
  <Header version="3.1"
    technicalId="afbacb8a-b313-4daa-881b-7b7a65204b69"
    workflowId="446940dc-eb68-4462-9424-4893ce051fdb"
    sentAt="2016-01-01T00:00:00Z"
    timeoutValue="2016-01-01T00:00:20Z"
    from="IE"
    to="ZZ"/>
  <Body businessCaseld="CGR Request Example"
    originatingAuthority="IE Competent Authority"
    requestPurpose="Other"
    requestSource="Other">
    <SearchedTransportManager>
      <TransportManagerNameDetails familyName="Creighton-Ward"
        firstName="Penelope"
        dateOfBirth="1939-12-24"
        familyNameSearchKey="CRAGTANWAD"
        firstNameSearchKey="PANALAP"/>
      <TransportManagerCertificateDetails certificateNumber="CPC004"
        certificateIssueDate="2012-01-31"
        certificateIssueCountry="UK"/>
    </SearchedTransportManager>
  </Body>
</CheckGoodRepute_Request>
```

Figure 10 - CGR Request Message Example

7.2.5. CGR Response MessageSample

```

<?xml version="1.0" encoding="UTF-8"?>
<CheckGoodRepute_Response xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
  <Header version="3.1"
    technicalId="f148c54c-488f-42bc-bae1-8eb09e8f7a3f"
    workflowId="446940dc-eb68-4462-9424-4893ce051fdb"
    sentAt="2016-01-01T00:00:05Z"
    from="EU"
    to="IE"/>
  <Body businessCaseId="CGR Notification Example"
    originatingAuthority="IE Competent Authority">
    <SearchedTransportManager>
      <TransportManagerNameDetails familyName="Creighton-Ward"
        firstName="Penelope"
        dateOfBirth="1939-12-24"
        familyNameSearchKey="CRAGTANWAD"
        firstNameSearchKey="PANALAP"/>
      <TransportManagerCertificateDetails certificateNumber="CPC004"
        certificateIssueDate="2012-01-31"
        certificateIssueCountry="UK"/>
    </SearchedTransportManager>
    <MemberState memberStateCode="AT" statusCode="NotFound"/>
    <MemberState memberStateCode="BE" statusCode="NotFound"/>
    <!-- Multiple other countries -->
    <MemberState memberStateCode="UK" statusCode="Found">
      <TransportManagerDetails respondingAuthority="UK Competent Authority"
        searchMethod="CPC">
        <TransportManagerNameDetails familyName="Creighton-Ward"
          firstName="Penelope"
          dateOfBirth="1939-12-24"
          placeOfBirth="London"/>
        <TransportManagerAddressDetails address="Address Line 1"
          postCode="W1"
          city="London"
          country="UK"/>
        <TransportManagerCertificateDetails certificateNumber="CPC004"
          certificateIssueDate="2012-01-31"
          certificateIssueCountry="UK"
          certificateValidity="Invalid">
          <Fitness fitnessStatus="Unfit"
            unfitStartDate="2015-12-09"
            unfitEndDate="2016-06-09"/>
        </TransportManagerCertificateDetails>
        <TransportUndertakings totalManagedUndertakings="1"
          totalManagedVehicles="7">
          <TransportUndertaking transportUndertakingName="International Rescue"
            numberOfVehicles="7"
            communityLicenceNumber="CL-IR-000001-001"
            communityLicenceStatus="Active">
            <TransportUndertakingAddress address="Tracy Villa"
              postCode="SP1"
              city="Tracy Island"
              country="UK"/>
          </TransportUndertaking>
        </TransportUndertakings>
      </TransportManagerDetails>
    </MemberState>
  </Body>
</CheckGoodRepute_Response>

```

Figure 11 - CGR Response Message Example

7.3. Check Transport Undertaking Data (CTUD)

The CTUD service allows a MS to search the road transport register in a foreign MS to determine the status of a Transport Undertaking. Each vehicle operated by a transport undertaking must carry a Certified True Copy of the transport undertaking's Community Licence. Either the number of the Certified True Copy or the number of the Community Licence itself can be supplied in the search

request, along with the transport undertaking name and / or the vehicle registration number. The MS of registration should supply all available transport undertaking data in the response.

7.3.1. *Search Mechanism*

A search request message sent by a MS in the CTUD workflow has the following three options, in order of preference, to search for the details of a transport undertaking:

- Community Licence Number
- Vehicle
 - Vehicle Registration Number
 - Vehicle Registration Country
- Transport Undertaking Name

The request must contain at least two, and optionally all three, of the search criteria. The search that is conducted at the responding MS depends on the search parameter data in the request message.

The search request will contain the data that is available to the requesting MS, but the preferred precedence of the search criteria (from most to least) is given in the following table:

Request Data	Search Algorithm
Community Licence Number	<p>The Community Licence Number is the preferred search mechanism as it is the least likely to contain input error that cause the search to fail. The number given in the search request may be either that of the Community Licence or of a Certified True Copy. Use the licence number supplied to search for matching transport undertakings in the ERRU register.</p> <p>There should only be a single match but the schemas provide for multiple matches.</p>
Vehicle Registration	<p>Use the vehicle details supplied to search the ERRU register for the vehicle and return the transport undertaking that manages the vehicle.</p> <p>There should only be a single match but the schemas provide for multiple matches.</p> <p>Vehicle registration country is added to the search criteria for ERRU 3. When mapping from v2.4 to v3.5 this is defaulted to QQ. A member state running ERRU 3 should treat this as a wildcard and match just on registration number.</p>
Transport Undertaking Name	<p>Unlike the CGR request, the NYSIIS phonetic algorithm is not applied to the transport undertaking name forwarded in the search request. The alphanumeric string is forwarded to the responding MS exactly as it is received from the requesting MS. Use the transport undertaking name to search the ERRU register.</p> <p>There should only be a single match but the schemas provide for multiple matches.</p>

There is no legal definition or accepted naming formula for any of the above search criteria. Further, through monitoring the operation of the ERRU network it has been observed that for some MS there is a discrepancy between the community licence number format or the transport undertaking name recorded in the transport undertakings register and the details that are actually printed on the Community Licence or Certified True Copy. This fact, coupled with any variances in input means that there is a significant possibility that the responding member state will not find an exact match with any given search criteria.

Responding Member States must ensure that their search algorithms can handle the presence / absence / format variance of non-critical text. For example, but not limited to:

- Spaces, hyphens, dashes, slashes
- Company format (asbl, a.s.b.l.,)
- Common names (transport, spedition, logistic)

7.3.1.1. Multiple Searches

It is mandatory for the responding MS to make a search with each of the search criterion that are given in the request and return the deduplicated, aggregated response. If two search criteria are supplied then each must be used to search the transport undertakings register. If the same undertaking is found for each search then only one record should be returned in the response. If different undertakings are found then both should be returned in the response. This methodology is simply extended by one additional search if all three search criteria are supplied in the request.

The response should indicate (in the *@searchMethod* attribute) which search method was used for each found transport undertaking. If the same transport undertaking is found by each of the searches it is at the discretion of the responding MS as to which result to use, but typically the preference would be in the order of precedence of expected accuracy:

1. Community Licence
2. Vehicle Registration
3. Company Name
4. Local

7.3.1.2. Local Searches

MS are required to make separate searches for each of the criterion given in the request. They may additionally, however, interpret the data and make custom searches to account for any characteristics of national procedures. Transport undertakings found in this fashion will have 'Local' indicated in the search method attribute of the response.

7.3.1.3. Return Registered Vehicles

The search request has multiple search criteria but the usage is that each search is for a single road transport undertaking; it is not possible to search for multiple undertakings in the same request. The search request also contains an attribute (*@requestAllVehicles*) allowing the requesting member state to receive in the response a list of all the vehicles registered to a transport undertaking. If the responding MS finds multiple undertakings that match the search criteria, and request all vehicles is set, then all the vehicles for each found transport undertaking should be returned in the response.

7.3.2. *CTUD Version Mappings*

The ERRU 3 CTUD message replaces the ERRU 2 CCL message. The Hub will map between the two messages.

7.3.2.1. *CCL to CTUD*

The requesting Member State (MS1) sends a v2.4 CheckCommunityLicence_Request message to the Hub. This is converted to a v3.5 CheckTransportUndertakingData_Request message and forwarded to the responding Member State (MS2).

The data contained within the request message is predominantly the same between v2.4 and v3.5, but the structure of the v3.5 messages has changed to allow requesting member state to search by either name details, community licence details, vehicle registration details or any combination.

CheckCommunityLicence_Request (v2.4)	CheckTransportUndertakingData_Request (v3.5)	Notes
Body	Body	
businessCaseld	businessCaseld	
originatingAuthority	originatingAuthority	
requestPurpose	requestPurpose	
requestSource	requestSource	
n/a	Body/SearchedCompany	
n/a	requestAllVehicles	Defaulted to 'false'
Body/SearchedCommunityLicence	SearchedCompany/ SearchByLicenceAndName SearchByLicenceAndVehicle SearchByNameAndVehicle	Map to SearchByLicenceAndName
transportUndertakingName	transportUndertakingName	
communityLicenceNumber	communityLicenceNumber	
n/a	../Vehicle	
vehicleRegistrationNumber	vehicleRegistrationNumber	
n/a	vehicleRegistrationCountry	Defaulted to 'QQ'

MS2 replies with a v3.5 CheckTransportUndertakingData_Response message that is converted at the Hub to a v2.4 CheckCommunityLicence_Response message and forwarded to MS1.

CheckTransportUndertakingData_Response (v3.5)	CheckCommunityLicence_Response (v2.4)	Notes
Body	Body	
businessCaseld	businessCaseld	
originatingAuthority	originatingAuthority	
respondingAuthority	respondingAuthority	
statusCode	statusCode	
statusMessage	statusMessage	
Body/SearchedCompany	Body/SearchedCommunityLicence	
requestAllVehicles	n/a	Discarded
SearchByLicenceAndName		
SearchByLicenceAndVehicle	n/a	Ignored
SearchByNameAndVehicle		
transportUndertakingName	transportUndertakingName	Copied from the request
communityLicenceNumber	communityLicenceNumber	Copied from the request
vehicleRegistrationNumber	vehicleRegistrationNumber	Copied from the request
vehicleRegistrationCountry	n/a	Discarded
Body/TransportUndertaking (0..n)	Body/TransportUndertaking	If there are multiple undertakings take the top one
transportUndertakingName	transportUndertakingName	
numberOfVehicles	numberOfVehicles	
legalForm	n/a	Discarded
numberOfEmployees	n/a	Discarded

CheckTransportUndertakingData_Response (v3.5)	CheckCommunityLicence_Response (v2.4)	Notes
riskRating	n/a	Discarded
riskBand	n/a	Discarded
searchMethod	n/a	Discarded
Body/TransportUndertaking/VehicleRegistrations	n/a	Discarded
Body/TransportUndertaking/ VehicleRegistrations/Vehicle	n/a	Discarded
vehicleRegistrationNumber	n/a	Discarded
vehicleRegistrationCountry	n/a	Discarded
Body/TransportUndertaking/ TransportUndertakingAddress	Body/TransportUndertaking/ TransportUndertakingAddress	
address	address	
postcode	postcode	
city	city	
country	country	
Body/TransportUndertaking/ CommunityLicenceDetails (1..4)	Body/TransportUndertaking/ CommunityLicenceDetails	If there are multiple licences take the top one in this order of precedence: 'Community licence for goods transport' 'Community licence for passenger transport' 'National licence for goods transport' 'National licence for passenger transport'
communityLicenceNumber	communityLicenceNumber	
communityLicenceStatus	communityLicenceStatus	

CheckTransportUndertakingData_Response (v3.5)	CheckCommunityLicence_Response (v2.4)	Notes
communityLicenceType	communityLicenceType	Option 'Community licence for goods transport, exclusively ≤3.5 t' maps into 'Community licence for goods transport'
startDate	startDate	
expiryDate	expiryDate	
withdrawalDate	withdrawalDate	
suspensionDate	suspensionDate	
suspensionExpiryDate	suspensionExpiryDate	
suspensionOrWithdrawalReason	n/a	Discarded
licencingAuthority	licencingAuthority	
Body/TransportUndertaking/ CertifiedTrueCopyDetails/CertifiedTrueCopy (1..n)	Body/TransportUndertaking/ CertifiedTrueCopyDetails	If there are multiple undertakings take the top one
trueCopyNumber	trueCopyNumber	
trueCopyIssueDate	trueCopyIssueDate	
n/a	trueCopyIssueCountry	Defaulted to 'QQ'
trueCopyExpiryDate	trueCopyExpiryDate	
trueCopySuspensionDate	trueCopyWithdrawalDate	
trueCopySuspensionExpiryDate	trueCopyWithdrawalExpiryDate	
trueCopyWithdrawalDate	n/a	Discarded

7.3.2.2. CTUD to CCL

The requesting Member State (MS1) sends a v3.5 CheckTransportUndertakingData_Request to the Hub. This is converted (as necessary) to a v2.4 CheckCommunityLicence_Request message and forwarded to the responding Member State (MS2).

CheckTransportUndertakingData_Request (v3.5)	CheckCommunityLicence_Request (v2.4)	Notes
Body	Body	
businessCaselId	businessCaselId	
originatingAuthority	originatingAuthority	
requestPurpose	requestPurpose	
requestSource	requestSource	
Body/SearchedCompany	n/a	
requestAllVehicles	n/a	Discarded
SearchCompany/ SearchByLicenceAndName SearchByLicenceAndVehicle SearchByNameAndVehicle	Body/SearchedCommunityLicence	The data to copy will be taken from whichever element exists in the CTUD request
transportUndertakingName	transportUndertakingName	
communityLicenceNumber	communityLicenceNumber	
Body/Vehicle	n/a	Discarded
vehicleRegistrationNumber	vehicleRegistrationNumber	
vehicleRegistrationCountry	n/a	Discarded

MS2 replies with a v2.4 CheckCommunityLicence_Response message that is converted at the Hub to a v3.5 CheckTransportUndertakingData_Response message and forwarded to MS1.

CheckCommunityLicence_Response (v2.4)	CheckTransportUndertakingData_Response (v3.5)	Notes
Body	Body	
businessCaselId	businessCaselId	
originatingAuthority	originatingAuthority	

CheckCommunityLicence_Response (v2.4)	CheckTransportUndertakingData_Response (v3.5)	Notes
respondingAuthority	respondingAuthority	
statusCode	statusCode	
statusMessage	statusMessage	
Body/SearchedCommunityLicence	Body/SearchedCompany	
	requestAllVehicles	Defaulted to 'false'
	SearchByLicenceAndName	
n/a	SearchByLicenceAndVehicle	Copied from the request
	SearchByNameAndVehicle	
transportUndertakingName	transportUndertakingName	Copied from the request
communityLicenceNumber	communityLicenceNumber	Copied from the request
vehicleRegistrationNumber	vehicleRegistrationNumber	Copied from the request
n/a	vehicleRegistrationCountry	Defaulted to 'QQ'
Body/TransportUndertaking	Body/TransportUndertaking	
transportUndertakingName	transportUndertakingName	
numberOfVehicles	numberOfVehicles	
n/a	legalForm	Not populated
n/a	numberOfEmployees	Default to '0'
n/a	riskRating	Default to '0'
	riskBand	Default to 'Grey'
n/a	Body/TransportUndertaking/VehicleRegistrations	Empty element
n/a	Body/TransportUndertaking/VehicleRegistrations/Vehicle	Not populated
n/a	vehicleRegistrationNumber	Not populated

CheckCommunityLicence_Response (v2.4)	CheckTransportUndertakingData_Response (v3.5)	Notes
n/a	vehicleRegistrationCountry	Not populated
Body/TransportUndertaking/ TransportUndertakingAddress	Body/TransportUndertaking/ TransportUndertakingAddress	
address	address	
postcode	postcode	
city	city	
country	country	
Body/TransportUndertaking/ CommunityLicenceDetails	Body/TransportUndertaking/ CommunityLicenceDetails (1..4)	Only one element (i.e. community licence) is provided in the CTUD response
communityLicenceNumber	communityLicenceNumber	
communityLicenceStatus	communityLicenceStatus	
communityLicenceType	communityLicenceType	
startDate	startDate	
expiryDate	expiryDate	
withdrawalDate	withdrawalDate	
suspensionDate	suspensionDate	
suspensionExpiryDate	suspensionExpiryDate	
n/a	suspensionOrWithdrawalReason	Not populated
licencingAuthority	licencingAuthority	
Body/TransportUndertaking/ CertifiedTrueCopyDetails	Body/TransportUndertaking/ CertifiedTrueCopyDetails/CertifiedTrueCopy (1..n)	
trueCopyNumber	trueCopyNumber	
trueCopyIssueDate	trueCopyIssueDate	

CheckCommunityLicence_Response (v2.4)	CheckTransportUndertakingData_Response (v3.5)	Notes
trueCopyIssueCountry	n/a	Discarded
trueCopyExpiryDate	trueCopyExpiryDate	
trueCopyWithdrawalDate	trueCopySuspensionDate	
trueCopyWithdrawalExpiryDate	trueCopySuspensionExpiryDate	
	trueCopyWithdrawalDate	Not populated

7.3.3. *CTUD Request Message Sample*

```
<?xml version="1.0" encoding="UTF-8"?>
<CheckTransportUndertakingData_Request xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
  <Header version="3.1"
    technicalId="d9cb9cb3-3f20-4d74-b6ca-cb2ade3e1226"
    workflowId="019705a3-0cac-47c3-a0ec-b5841b41e0e9"
    sentAt="2016-01-01T00:00:00Z"
    timeoutValue="2016-01-01T00:00:20Z"
    from="IE"
    to="UK"/>
  <Body businessCaseld="CTUD Request Example"
    originatingAuthority="IE Competent Authority"
    requestPurpose="Control"
    requestSource="RSI">
    <SearchedCompany requestAllVehicles="false">
      <SearchByLicenceAndName communityLicenceNumber="CL-IR-000001-001"
        transportUndertakingName="International Rescue">
        <Vehicle vehicleRegistrationNumber="FAB1"
          vehicleRegistrationCountry="UK"/>
      </SearchByLicenceAndName>
    </SearchedCompany>
  </Body>
</CheckTransportUndertakingData_Request>
```

Figure 12 - CTUD Request Message Example

7.3.4. CTUD Response Message Sample

```
<?xml version="1.0" encoding="UTF-8"?>
<CheckTransportUndertakingData_Response xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
  <Header version="3.1"
    technicalId="aa1f6816-c7b1-4081-a7e8-7e07e7a7e2b8"
    workflowId="019705a3-0cac-47c3-a0ec-b5841b41e0e9"
    sentAt="2016-01-01T00:00:05Z"
    from="UK"
    to="IE"/>
  <Body businessCaseId="CTUD Request Example"
    originatingAuthority="IE Competent Authority"
    respondingAuthority="UK Competent Authority"
    statusCode="Found">
    <SearchedCompany requestAllVehicles="false">
      <SearchByLicenceAndName communityLicenceNumber="CL-IR-000001-001"
        transportUndertakingName="International Rescue">
        <Vehicle vehicleRegistrationNumber="FAB1"
          vehicleRegistrationCountry="UK"/>
      </SearchByLicenceAndName>
    </SearchedCompany>
    <TransportUndertaking transportUndertakingName="International Rescue"
      numberOfVehicles="7"
      riskRating="97"
      riskBand="Green"
      numberOfEmployees="7"
      legalForm="asbl"
      searchMethod="CommunityLicence">
      <TransportUndertakingAddress address="Tracy Villa"
        postCode="SP1"
        city="Tracy Island"
        country="UK"/>
      <CommunityLicenceDetails communityLicenceNumber="CL-IR-000001-001"
        communityLicenceStatus="Active"
        communityLicenceType="Community licence for goods transport"
        licencingAuthority="UK Competent Authority"
        startDate="2010-08-13"
        expiryDate="2020-08-13"/>
      <CertifiedTrueCopyDetails>
        <CertifiedTrueCopy trueCopyNumber="CPC004"
          trueCopyIssueDate="2012-01-31"
          trueCopyExpiryDate="2022-01-31"/>
      </CertifiedTrueCopyDetails>
    </TransportUndertaking>
  </Body>
</CheckTransportUndertakingData_Response>
```

Figure 13 - CTUD Response Message Example

7.4. Notification of Check Result (NCR)

Any MS that, following a vehicle inspection, levies a penalty against a foreign transport undertaking must notify the MS of establishment of the offense and penalties applied. The MS where the infringement occurred may also request penalties to be levied in the MS of establishment. Member States should also notify the MS of establishment if a ‘clean check’ has been conducted on its territory, or if minor infringements have been detected, for the MS of establishment to include this information in the risk rating of the transport undertaking.

Note that NCR workflow is between the MS performing the vehicle inspection and the MS of establishment of the transport undertaking that operates the vehicle. The NCR request is not sent to the MS of registration of the vehicle itself; that is the role of the RSI message, see 7.6.

The NCR workflow is split into two, disconnected message flows. Firstly an NCR request is sent from the notifying MS to the MS of establishment and the latter acknowledges receipt of the NCR request by responding with an NCR acknowledgement message.

The MS of establishment then follows any national procedures to sanction or audit the transport undertaking and then to issue an NCR response detailing any actions taken. The notifying MS acknowledges receipt of the NCR response with an NCR acknowledgement message.

The *workflowId* will be the same on all four messages.

7.4.1. Automatic Register Updates

A two-part disconnected message exchange exists as the MS of establishment requires time to follow any national procedures to sanction or audit the transport undertaking.

If MS have an automated procedure to apply sanctions and generate NCR responses the two part message exchange must be adhered to:

- An NCR request is received and an acknowledgment created and sent.
- The automatic register update is applied recording any penalties listed in the NCR request.
- An NCR response is created and sent and the corresponding acknowledgement received and processed.

7.4.2. NCR Message Flow

The diagram below describes the NCR workflow.

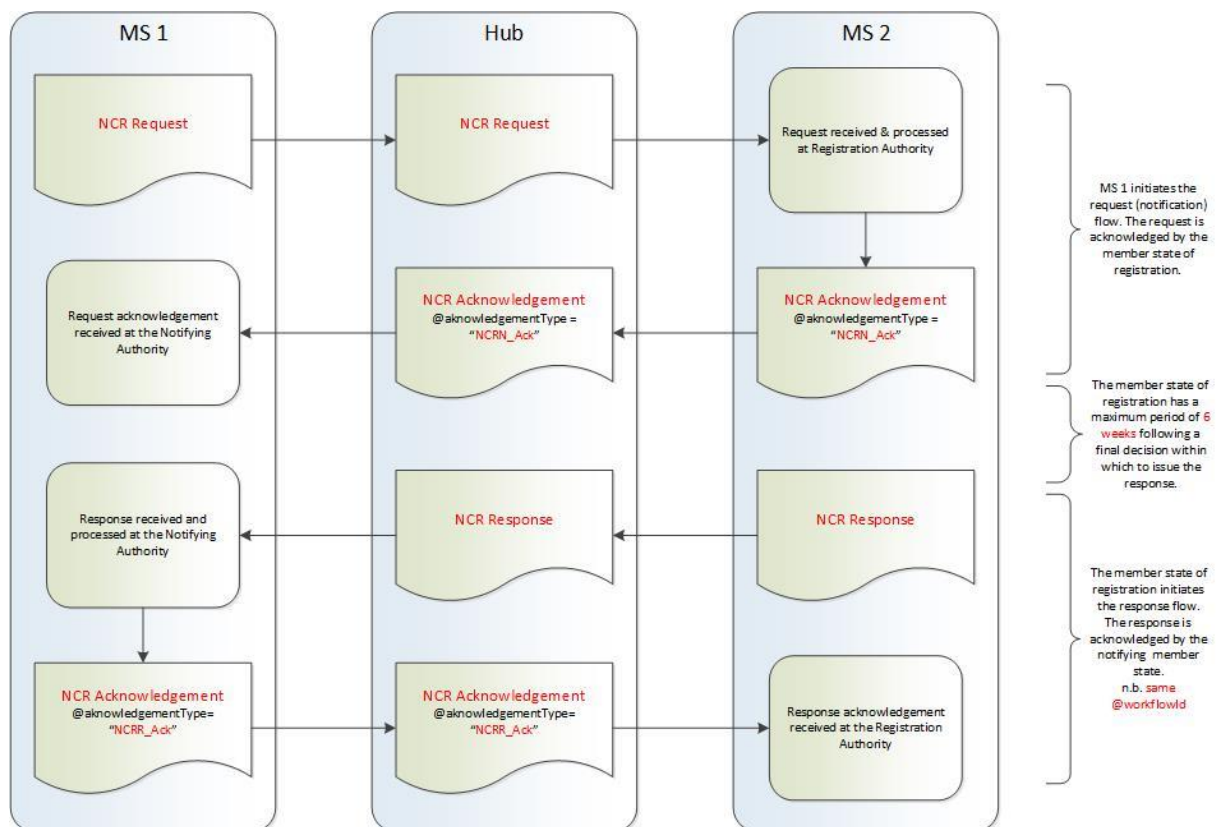


Figure 14 - NCR Message Flow

7.4.2.1. Synchronous and Asynchronous NCR Messages

As described in 7.4.2, the exchange of NCR messages occurs in two disconnected stages. If a MS chooses to use synchronous message exchange with the Hub then the two stages will be:

- the NCR request (notification) and associated acknowledgement will be one synchronous exchange.
- the NCR response and associated acknowledgement will be on synchronous exchange.

There is no synchronous relationship between the NCR request and the NCR response.

7.4.3. Penalties Imposed and Penalties Requested

If a vehicle inspection reveals serious infringements in the roadworthiness of the vehicle, then the inspecting authority may levy a penalty on the road transport undertaking. The serious infringement(s) and any associated penalty or penalties will be itemised in the NCR request. The penalties levied by the inspecting administration are itemised in the *PenaltiesImposed* element of the message.

In addition, the inspecting authority may request that the MS of registration of the road transport undertaking also levy and additional penalty or penalties against that undertaking. These are itemised in the *PenaltiesRequested* element of the message.

When a MS receives an NCR request with serious infringements and *PenaltiesRequested* it is mandatory in the NCR response to address each of the requested penalties by populating the *PenaltiesImposed* element in the NCR response. The *@penaltyRequestedIdentifier* attribute links the *PenaltiesRequested* in the NCR request with the *PenaltiesImposed* in the NCR response. Each penalty requested must be answered in the response.

When a MS receives an NCR request with no *PenaltiesRequested* it is still mandatory to return an NCR response, but only the *Body* element and associated attributes are required. The *@statusCode* attribute will be 'OK' or 'NotFound' indicating that the NCR request has been processed, or that the specified transport undertaking was not found.

7.4.4. Penalties Appealed

A penalty that is imposed and executed in the MS of infringement may be successfully appealed by the sanctioned transport undertaking. In this case, the MS of infringement will send a second NCR request detailing the appealed penalty with the following attributes in the *PenaltyImposed* element:

- *@penaltyImposedIdentifier* – the same identifier as the original NCR request
- *@finalDecisionDate* – the date that the successful appeal was finalised
- *@penaltyTypeImposed* – the same penalty type as the original NCR request
- *@startDate* – the same start date as the original NCR request
- *@endDate* – the same end date as the original NCR request
- *@isExecuted* – "No"
- *@notExecutedReason* – explanatory text, e.g. "Penalty/Infringement annulled after appeal"

The Hub will validate the combination of *@isExecuted* and *@notExecutedReason*. If *@isExecuted* is "Yes" then *@notExecutedReason* must not be present and conversely if *@isExecuted* is "No" then *@notExecutedReason* must be present.

All other aspects of the NCR workflow remain the same:

- a new *@workflowId* for the message exchange must be generated and used on the second NCR request sent by the MS of infringement following a successful appeal
- the NCR request must be acknowledged by the MS of establishment
- the MS of establishment must send an NCR response
- the MS of infringement must acknowledge the NCR response
- if there were multiple serious infringements in the original NCR request only the serious infringement contain the appealed penalty needs to be supplied in the second NCR request
- all business data other than the concerned penalty attributes remains the same

If, for example the original NCR request contained the following *PenaltiesImposed* element:

```
<PenaltiesImposed>
  <PenaltyImposed penaltyImposedIdentifier="1"
    finalDecisionDate="2015-12-14"
    penaltyTypeImposed="101"
    isExecuted="Yes"/>
  <PenaltyImposed penaltyImposedIdentifier="2"
    finalDecisionDate="2015-12-14"
    penaltyTypeImposed="203"
    isExecuted="Yes"/>
  <PenaltyImposed penaltyImposedIdentifier="3"
    finalDecisionDate="2015-12-14"
    penaltyTypeImposed="202"
    isExecuted="Yes"/>
</PenaltiesImposed>
```

And then the middle penalty was successfully appealed, the subsequent NCR request would contain a single *PenaltyImposed* element:

```
<PenaltiesImposed>
  <PenaltyImposed penaltyImposedIdentifier="2"
    finalDecisionDate="2016-11-21" <!--The date of the appeal being finalised -->
    penaltyTypeImposed="203"
    isExecuted="No"
    notExecutedReason=" Penalty/Infringement annulled after appeal " />
</PenaltiesImposed>
```

7.4.5. *Minor Infringements and Clean Checks*

NCR requests must also be sent in cases where no serious infringements are found. In this case the vehicle may pass inspection even if minor infringements are found. In this case the NCR request notifies the inspection as passed and simply gives the total number of minor infringements.

In cases where neither minor infringements nor serious infringements are found the NCR request notifies the inspection as a clean check. When a MS of establishment receives an NCR request with a clean check result, no NCR response message is required (the NCR request itself must still be acknowledged).

However, the MS of establishment, when receiving a clean check NCR request, is not prohibited from eventually sending an NCR response. Therefore, all MS must be prepared to receive an NCR response after sending a clean check NCR request.

7.4.6. *NCR Version Mappings*

7.4.6.1. *INF to NCR*

The requesting Member State (MS1) sends a v2.4 Infringement_Request message to the Hub. This is converted to a v3.5 NotifyCheckResult_Request message and forwarded to the responding Member State (MS2).

The original v2.4 INF request from MS1 is mapped to the v3.5 NCR as follows:

Infringement_Request (v2.4)	NotifyCheckResult_Request (v3.5)	Notes
Body	Body	
businessCaseId	businessCaseId	
originatingAuthority	originatingAuthority	
requestPurpose	requestPurpose	
requestSource	requestSource	
Body/TransportUndertaking	Body/TransportUndertaking	
transportUndertakingName	transportUndertakingName	
communityLicenceNumber	communityLicenceNumber	
n/a	Body/TransportUndertaking/Vehicle	
vehicleRegistrationNumber	vehicleRegistrationNumber	
vehicleRegistrationCountry	vehicleRegistrationCountry	
n/a	Body/TransportUndertaking/CheckSummary	
n/a	checkResult	Defaulted to 'Fail'
n/a	dateOfCheck	SeriousInfringement/@dateOfCheck
n/a	Body/TransportUndertaking/MinorInfringement	Not populated
n/a	dateOfInfringement	Not populated
n/a	numberOfInfringements	Not populated
Body/TransportUndertaking/SeriousInfringement	Body/TransportUndertaking/SeriousInfringement	

Infringement_Request (v2.4)	NotifyCheckResult_Request (v3.5)	Notes
dateOfInfringement	dateOfInfringement	
category	category	
infringementType	infringementType	
dateOfCheck	n/a	CheckSummary/@dateOfCheck
n/a	appealPossible	Default to false
Body/TransportUndertaking/SeriousInfringement/ PenaltiesImposed/PenaltyImposed	Body/TransportUndertaking/SeriousInfringement/ PenaltiesImposed/PenaltyImposed	
penaltyImposedIdentifier	penaltyImposedIdentifier	
finalDecisionDate	finalDecisionDate	
penaltyTypeImposed	penaltyTypeImposed	
startDate	startDate	
endDate	endDate	
isExecuted	isExecuted	
n/a	notExecutedReason	
Body/TransportUndertaking/SeriousInfringement/ PenaltiesRequested/PenaltyRequested	Body/TransportUndertaking/SeriousInfringement/ PenaltiesRequested/PenaltyRequested	
penaltyRequestedIdentifier	penaltyRequestedIdentifier	
penaltyTypeRequested	penaltyTypeRequested	
duration	duration	

MS2 replies firstly with a v3.5 NotifyCheckResult_Acknowledgement which is converted to a v2.4 Infringement_Acknowledgement and forwarded to MS1 (see 7.4.6.3). Subsequently, after the completion of any national procedures to apply sanctions to the transport undertaking, MS2 creates a v3.5 NotifyCheckResult_Response which the Hub converts to a v2.4 Infringement_Response:

NotifyCheckResult_Response (v3.5)	Infringement_Response (v2.4)	Notes
Body	Body	
businessCaseId	businessCaseId	
originatingAuthority	originatingAuthority	
respondingAuthority	respondingAuthority	
statusCode	statusCode	
statusMessage	statusMessage	
Body/TransportUndertaking	Body/TransportUndertaking	
transportUndertakingName	transportUndertakingName	
numberOfVehicles	numberOfVehicles	
communityLicenceNumber	communityLicenceNumber	
communityLicenceStatus	communityLicenceStatus	
Body/TransportUndertaking/ TransportUndertakingAddress	Body/TransportUndertaking/ TransportUndertakingAddress	
address	address	
postCode	postCode	
city	city	
country	country	
Body/TransportUndertaking/ PenaltiesImposed/PenaltyImposed	Body/TransportUndertaking/ PenaltiesImposed/PenaltyImposed	
penaltyRequestedIdentifier	penaltyRequestedIdentifier	
authorityImposingPenalty	authorityImposingPenalty	

NotifyCheckResult_Response (v3.5)	Infringement_Response (v2.4)	Notes
isImposed	isImposed	
penaltyTypeImposed	penaltyTypeImposed	
startDate	startDate	
endDate	endDate	
reason	reason	

MS1 replies with a v2.4 Infringement_Acknowledgement which is converted to a v3.5 NotifyCheckResult_Acknowledgement and forwarded to MS2 (see 7.4.6.3).

7.4.6.2. NCR to INF

The requesting Member State (MS1) sends a v3.5 NotifyCheckResult_Request message to the Hub. This is converted to a v2.4 Infringement_Request message and forwarded to the responding Member State (MS2).

The original v3.5 NotifyCheckResult_Request from MS1 is mapped to the v2.4 Infringement_Request as follows:

NotifyCheckResult_Request (3.1)	Infringement_Request (v2.4)	Notes
Body	Body	
businessCaseId	businessCaseId	
originatingAuthority	originatingAuthority	
requestPurpose	requestPurpose	
requestSource	requestSource	
Body/TransportUndertaking	Body/TransportUndertaking	
transportUndertakingName	transportUndertakingName	
communityLicenceNumber	communityLicenceNumber	
Body/TransportUndertaking/Vehicle	n/a	
vehicleRegistrationNumber	vehicleRegistrationNumber	

NotifyCheckResult_Request (3.1)	Infringement_Request (v2.4)	Notes
vehicleRegistrationCountry	vehicleRegistrationCountry	
Body/TransportUndertaking/CheckSummary	n/a	Discarded
checkResult	n/a	Discarded If the @checkResult="CleanCheck" the notification will not be mapped and the Hub will generate the NCR_Acknowledgement
dateOfCheck	n/a	SeriousInfringement/@dateOfCheck
Body/TransportUndertaking/MinorInfringement	n/a	Discarded If there are no Serious Infringements the notification will not be mapped and the Hub will generate the NCR_Acknowledgement and the NCR_Response.
dateOfInfringement	n/a	Discarded
numberOfInfringements	n/a	Discarded
Body/TransportUndertaking/SeriousInfringement	Body/TransportUndertaking/SeriousInfringement	
dateOfInfringement	dateOfInfringement	
category	category	
infringementType	infringementType	
n/a	dateOfCheck	CheckSummary/@dateOfCheck
appealPossible	n/a	Discarded
Body/TransportUndertaking/SeriousInfringement/ PenaltiesImposed/PenaltyImposed	Body/TransportUndertaking/SeriousInfringement/ PenaltiesImposed/PenaltyImposed	
penaltyImposedIdentifier	penaltyImposedIdentifier	
finalDecisionDate	finalDecisionDate	

NotifyCheckResult_Request (3.1)	Infringement_Request (v2.4)	Notes
penaltyTypeImposed	penaltyTypeImposed	
startDate	startDate	
endDate	endDate	
isExecuted	isExecuted	
notExecutedReason	n/a	Discarded
Body/TransportUndertaking/SeriousInfringement/ PenaltiesRequested/PenaltyRequested	Body/TransportUndertaking/SeriousInfringement/ PenaltiesRequested/PenaltyRequested	
penaltyRequestedIdentifier	penaltyRequestedIdentifier	
penaltyTypeRequested	penaltyTypeRequested	
duration	duration	

MS2 replies firstly with a v3.5 NotifyCheckResult_Acknowledgement which is converted to a v2.4 Infringement_Acknowledgement and forwarded to MS1 (see 7.4.6.3).

Subsequently, after the completion of any national procedures to apply sanctions to the transport undertaking, MS2 creates a v2.4 Infringement_Response which the Hub converts to a v3.5 NotifyCheckResult_Response:

Infringement_Response (v2.4)	NotifyCheckResult_Response (v3.5)	Notes
Body	Body	
businessCaseId	businessCaseId	
originatingAuthority	originatingAuthority	
respondingAuthority	respondingAuthority	
statusCode	statusCode	
statusMessage	statusMessage	
Body/TransportUndertaking	Body/TransportUndertaking	

Infringement_Response (v2.4)	NotifyCheckResult_Response (v3.5)	Notes
transportUndertakingName	transportUndertakingName	
communityLicenceNumber	communityLicenceNumber	
communityLicenceStatus	communityLicenceStatus	
numberOfVehicles	numberOfVehicles	
Body/TransportUndertaking/ TransportUndertakingAddress	Body/TransportUndertaking/ TransportUndertakingAddress	
address	address	
postCode	postCode	
city	city	
country	country	
Body/TransportUndertaking/PenaltiesImposed/ PenaltyImposed	Body/TransportUndertaking/PenaltiesImposed/ PenaltyImposed	
penaltyRequestedIdentifier	penaltyRequestedIdentifier	
authorityImposingPenalty	authorityImposingPenalty	
isImposed	isImposed	
penaltyTypeImposed	penaltyTypeImposed	
startDate	startDate	
endDate	endDate	
reason	reason	

7.4.6.3. Acknowledgement Mappings

The following two tables show the mappings from the v2.4 Infringement_Acknowledgement to the v3.5 NotifyCheckResult_Acknowledgement v3.5 and vice versa.

NotifyCheckResult_Acknowledgement (v3.5)	Infringement_Acknowledgement (v2.4)	Notes
Body	Body	
businessCaseId	businessCaseId	
originatingAuthority	originatingAuthority	
respondingAuthority	respondingAuthority	
acknowledgementType	acknowledgementType	NCRN_Ack to IN_Ack NCRR_Ack to IR_Ack
statusCode	statusCode	
statusMessage	statusMessage	

Infringement_Acknowledgement (v2.4)	NotifyCheckResult_Acknowledgement (v3.5)	Notes
Body	Body	
businessCaseId	businessCaseId	
originatingAuthority	originatingAuthority	
respondingAuthority	respondingAuthority	
acknowledgementType	acknowledgementType	IN_Ack to NCRN_Ack IR_Ack to NCRR_Ack
statusCode	statusCode	
statusMessage	statusMessage	

7.4.7. *NCR Request Message Sample*

```
<?xml version="1.0" encoding="UTF-8"?>
<NotifyCheckResult_Request xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
  <Header version="3.1"
    technicalId="d68f9675-72f4-486a-b5b2-c798b361af52"
    workflowId="e933f62c-ceae-4833-b022-c4f69e2211ef"
    sentAt="2016-01-01T00:00:00Z"
    timeoutValue="2016-01-01T00:00:20Z"
    from="IE"
    to="UK"/>
  <Body businessCaselId="Notification of Check Result Example"
    originatingAuthority="IE Competent Authority"
    requestPurpose="Control"
    requestSource="RSI">
    <TransportUndertaking transportUndertakingName="International Rescue"
      communityLicenceNumber="CL-IR-000001-001">
      <Vehicle vehicleRegistrationNumber="FAB1"
        vehicleRegistrationCountry="UK"/>
      <CheckSummary checkResult="Fail"
        dateOfCheck="2015-12-14"/>
      <SeriousInfringement dateOfInfringement="2015-12-14"
        category="SI"
        infringementType="931"
        appealPossible="false">
        <PenaltiesImposed>
          <PenaltyImposed penaltyImposedIdentifier="1"
            finalDecisionDate="2015-12-14"
            penaltyTypeImposed="202"
            isExecuted="Yes"/>
        </PenaltiesImposed>
        <PenaltiesRequested>
          <PenaltyRequested penaltyRequestedIdentifier="1"
            penaltyTypeRequested="101"/>
        </PenaltiesRequested>
      </SeriousInfringement>
    </TransportUndertaking>
  </Body>
</NotifyCheckResult_Request>
```

Figure 15 - NCR Request Message Example

7.4.8. *NCR Request Acknowledgement Sample*

```
<?xml version="1.0" encoding="UTF-8"?>
<NotifyCheckResult_Acknowledgement xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
  <Header version="3.1"
    technicalId="e93a737d-006f-4420-9b70-41feedf7ea2"
    workflowId="e933f62c-ceae-4833-b022-c4f69e2211ef"
    sentAt="2016-01-01T00:00:04Z"
    from="UK"
    to="IE"/>
  <Body businessCaselId="Notification of Check Result Example"
    acknowledgementType="NCRN_Ack"
    originatingAuthority="IE Competent Authority"
    respondingAuthority="UK Competent Authority"
    statusCode="OK"/>
</NotifyCheckResult_Acknowledgement>
```

Figure 16 - NCR Request Acknowledgement Message Example

7.4.9. NCR Response Message Sample

```

<?xml version="1.0" encoding="UTF-8"?>
<NotifyCheckResult_Response xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
  <Header version="3.1"
    technicalId="d0ae5498-339a-49ad-bcaa-65c1f03f6307"
    workflowId="e933f62c-ceae-4833-b022-c4f69e2211ef"
    sentAt="2016-02-07T10:04:00Z"
    timeoutValue="2016-02-07T10:04:10Z"
    from="UK"
    to="IE"/>
  <Body businessCaselId="Notification of Check Result Example"
    originatingAuthority="UK Competent Authority"
    respondingAuthority="IE Competent Authority"
    statusCode="OK">
    <TransportUndertaking transportUndertakingName="International Rescue"
      communityLicenceNumber="CL-IR-000001-001"
      communityLicenceStatus="Active"
      numberOfVehicles="7">
      <TransportUndertakingAddress address="Tracy Villa"
        postCode="SP1"
        city="Tracy Island"
        country="UK"/>
    </TransportUndertaking>
    <PenaltiesImposed>
      <PenaltyImposed penaltyRequestedIdentifier="1"
        authorityImposingPenalty="DVSA"
        isImposed="false"
        penaltyTypeImposed="101"
        reason="Further sanction not required"/>
    </PenaltiesImposed>
  </Body>
</NotifyCheckResult_Response>

```

Figure 17 - NCR Response Message Example – Status Code OK

```

<?xml version="1.0" encoding="UTF-8"?>
<NotifyCheckResult_Response xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
  <Header version="3.1"
    technicalId="d0ae5498-339a-49ad-bcaa-65c1f03f6307"
    workflowId="e933f62c-ceae-4833-b022-c4f69e2211ef"
    sentAt="2016-02-07T10:04:00Z"
    timeoutValue="2016-02-07T10:04:10Z"
    from="UK"
    to="IE"/>
  <Body businessCaselId="Notification of Check Result Example"
    originatingAuthority="UK Competent Authority"
    respondingAuthority="IE Competent Authority"
    statusCode="NotFound"/>
</NotifyCheckResult_Response>

```

Figure 18 - NCR Response Message Example – Status Code NotFound

7.4.10. *NCR Response Acknowledgement Sample*

```
<?xml version="1.0" encoding="UTF-8"?>
<NotifyCheckResult_Acknowledgement xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1" >
  <Header version="3.1"
    technicalId="8ad14f15-de6f-4d08-8260-d825cc1916c9"
    workflowId="d0ae5498-339a-49ad-bcaa-65c1f03f6307"
    sentAt="2016-02-07T10:04:03Z "
    from="IE"
    to="UK"/>
  <Body businessCaseId="Notification of Check Result Example"
    acknowledgementType="NCRR_Ack"
    originatingAuthority="IE Competent Authority"
    respondingAuthority="UK Competent Authority"
    statusCode="OK"/>
</NotifyCheckResult_Acknowledgement>
```

Figure 19 - NCR Response Acknowledgement Message Example

7.5. Notification of Unfitness (NU)

In order to manage a road transport undertaking a transport manager must be of good repute, and this is evidenced by issuing a Certificate of Professional Competence (CPC) to the manager. A CPC is mutually recognised which means that a transport manager may use a CPC issued by one MS to manage a transport undertaking registered in a different MS.

If, for any reason, the MS that issued the CPC suspends or withdraws the certificate then then a notification should be sent to all other MS to inform them that the specified transport manager is no longer qualified to manage a transport undertaking.

Each MS must acknowledge receipt of the NU request message by sending an NU acknowledgement message.

7.5.1. *NU Version Mappings*

This is a new message service for ERRU 3.1 so there is no mapping to ERRU 2.4 messages. When the Hub receives an NU message it will be forwarded to all other MS that have implemented ERRU 3.1. In the aggregated response to the notifying MS the MS that are still running ERRU 2.4 will be marked as 'NotAvailable'.

7.5.2. *NU Notification Request Message Sample*

```
<?xml version="1.0" encoding="UTF-8"?>
<NotifyUnfitness_Request xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
  <Header version="3.1"
    technicalId="1e7cf2b4-997d-439c-8f17-9f8c73164388"
    workflowId="c7036f11-8f67-452a-8c45-116e8bd3c369"
    sentAt="2016-01-01T00:00:00Z"
    timeoutValue="2016-01-01T00:00:20Z"
    from="IE"
    to="UK"/>
  <Body businessCaselId="Notification of Unfitness Example"
    originatingAuthority="IE Competent Authority"
    requestPurpose="Other"
    requestSource="CA">
    <TransportManager unfitStartDate="2016-01-01">
      <TransportManagerNameDetails>
        <TransportManager familyName="Creighton-Ward"
          firstName="Penelope"
          dateOfBirth="1939-12-24"
          familyNameSearchKey="CRAGTANWAD"
          firstNameSearchKey="PANALAP"/>
        <CertificateOfProfessionalCompetence certificateNumber="CPC004"
          certificateIssueDate="2012-01-31"
          certificateIssueCountry="UK"/>
      </TransportManagerNameDetails>
    </TransportManager>
  </Body>
</NotifyUnfitness_Request>
```

Figure 20 - NCR Request Message Example

7.5.3. *NU Notification Acknowledgement Sample*

```
<?xml version="1.0" encoding="UTF-8"?>
<NotifyUnfitness_Acknowledgement xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
  <Header version="3.1"
    technicalId="7d069776-2724-4240-9aa6-f0204a63de94"
    workflowId="c7036f11-8f67-452a-8c45-116e8bd3c369"
    sentAt="2016-01-01T00:00:04Z"
    from="UK"
    to="IE"/>
  <Body businessCaselId="Notification of Unfitness Acknowledgement Example"
    originatingAuthority="IE Competent Authority"
    respondingAuthority="UK Competent Authority">
    <MemberState memberStateCode="AT" statusCode="NotAvailable" statusMessage="TO MemberState does not
implement the NotifyUnfitness workflow"/>
    <MemberState memberStateCode="BE" statusCode="OK"/>

    <!-- Remaining other countries -->
  </Body>
</NotifyUnfitness_Acknowledgement>
```

Figure 21 - NCR Acknowledgement Message Example

7.6. Road Side Inspection (RSI)

The RSI messages provide the means for and enforcement officer in one MS (MS1) to notify the NCP in another MS (MS2) that a vehicle registered in MS2 has failed a technical inspection in MS1 as described in Article 18(1) of Directive 2014/47/EU [5].

7.6.1. *RSI Searches*

The RSI notification message contains details of the driver, vehicle and transport undertaking (if applicable) and is sent from the member state performing the inspection (MS1) to the member state of registration of the vehicle (MS2). MS2 must as a minimum respond to the RoadSideInspection_Request with a RoadSideInspection_Response with a status code of 'OK'.

In addition to this MS2 may choose to make a search of the vehicle register using the details provided in the notification – and a RoadSideInspection_Response will be sent with a status code of 'OK' or 'NotFound'. Whether or not to make a search of the vehicle register is an implementation decision that is up to MS2 to determine. Any other business processing that MS2 undertakes on receipt of a RoadSideInspection_Request (such as validating the transport undertaking / company or driver) is outside the scope of ERRU.

A RoadSideInspection_Response with a status code of 'NotFound' applies only to the vehicle.

7.6.2. *RSI Version Mappings*

7.6.2.1. *RSI v2.4 to 3.1*

The requesting Member State (MS1) sends a v2.4 RoadSideInspection_Request message to the Hub. This is copied to a v3.5 RoadSideInspection_Request message and forwarded to the responding Member State (MS2).

The only change between v2.4 and v3.5 of the RoadSideInspection_Request message is the addition of the vehicle registration country:

RoadSideInspection_Request (v2.4)	RoadSideInspection_Request (v3.5)	Notes
Body	Body	
businessCaseId	businessCaseId	
originatingAuthority	originatingAuthority	
requestPurpose	requestPurpose	
requestSource	requestSource	
Body/InspectionDetails	Body/InspectionDetails	
inspectionIdentifier	inspectionIdentifier	
inspectionLocation	inspectionLocation	
inspectionDateTime	inspectionDateTime	
inspectionAuthorityOrName	inspectionAuthorityOrName	
Body/InspectionDetails/InspectionResult	Body/InspectionDetails/InspectionResult	
inspectionPassed	inspectionPassed	
vehicleProhibitionOrRestriction	vehicleProhibitionOrRestriction	
ptiRequested	ptiRequested	
Body/IdentificationDetails	Body/IdentificationDetails	
Body/IdentificationDetails/VehicleDetails	Body/IdentificationDetails/VehicleDetails	
vehicleRegistrationNumber	vehicleRegistrationNumber	

RoadSideInspection_Request (v2.4)	RoadSideInspection_Request (v3.5)	Notes
n/a	vehicleRegistrationCountry	Default to 'QQ'
vehicleIdentificationNumber	vehicleIdentificationNumber	
vehicleCategory	vehicleCategory	
odometerReading	odometerReading	
Body/IdentificationDetails/DriverDetails	Body/IdentificationDetails/DriverDetails	
familyName	familyName	
firstName	firstName	
drivingLicenceNumber	drivingLicenceNumber	
drivingLicenceCountry	drivingLicenceCountry	
Body/IdentificationDetails/TransportUndertakingDetails	Body/IdentificationDetails/TransportUndertakingDetails	
transportUndertakingName	transportUndertakingName	
communityLicenceNumber	communityLicenceNumber	
Body/IdentificationDetails/TransportUndertakingDetails/ TransportUndertakingAddress	Body/IdentificationDetails/TransportUndertakingDetails/ TransportUndertakingAddress	
address	address	
postCode	postCode	
city	city	
country	country	
Body/IdentificationDetails/TransportUndertakingDetails/ HolderDetails	Body/IdentificationDetails/TransportUndertakingDetails/ HolderDetails	
registrationCertificate	registrationCertificate	
Body/IdentificationDetails/TransportUndertakingDetails/ HolderDetails/Company	Body/IdentificationDetails/TransportUndertakingDetails/ HolderDetails/Company	

RoadSideInspection_Request (v2.4)	RoadSideInspection_Request (v3.5)	Notes
address	address	
postCode	postCode	
city	city	
country	country	
companyName	companyName	
Body/IdentificationDetails/TransportUndertakingDetails/ HolderDetails/NaturalPerson	Body/IdentificationDetails/TransportUndertakingDetails/ HolderDetails/NaturalPerson	
address	address	
postCode	postCode	
city	city	
country	country	
familyName	familyName	
firstName	firstName	
Body/CheckedItems	Body/CheckedItems	
Body/CheckedItems/CheckedItem	Body/CheckedItems/CheckedItem	
itemType	itemType	
itemFailed	itemFailed	
Body/CheckedItems/CheckedItem/FailedChecks	Body/CheckedItems/CheckedItem/FailedChecks	
Body/CheckedItems /CheckedItem/FailedChecks/FailedCheck	Body/CheckedItems /CheckedItem/FailedChecks/FailedCheck	
failedReason	failedReason	
failedAssessment	failedAssessment	
isRectified	isRectified	

The responding Member State (MS2) sends a v3.5 RoadSideInspection_Response to the Hub. This is converted to a v2.4 RoadSideInspection_Response and forwarded to the original requesting Member State (MS1).

There is no differences between v2.4 and v3.5 RoadSideInspection_Response messages (except the schema namespace):

RoadSideInspection_Response (v3.5)	RoadSideInspection (v2.4)	Notes
Body	Body	
businessCaselId	businessCaselId	
originatingAuthority	originatingAuthority	
respondingAuthority	respondingAuthority	
statusCode	statusCode	
statusMessage	statusMessage	

7.6.2.2. RSI v3.5 to 2.4

The requesting Member State (MS1) sends a v3.5 RoadSideRequest_Request message to the Hub. This is copied to a v2.4 RoadsideRequest_Request message and forwarded to the responding Member State (MS2).

The only change between v2.4 and v3.5 of the RoadSideInspection_Request message is the addition of the vehicle registration country:

RoadSideInspection_Request (v3.5)	RoadSideInspection_Request (v2.4)	Notes
Body	Body	
businessCaselId	businessCaselId	
originatingAuthority	originatingAuthority	
requestPurpose	requestPurpose	
requestSource	requestSource	

RoadSideInspection_Request (v3.5)	RoadSideInspection_Request (v2.4)	Notes
Body/InspectionDetails	Body/InspectionDetails	
inspectionIdentifier	inspectionIdentifier	
inspectionLocation	inspectionLocation	
inspectionDateTime	inspectionDateTime	
inspectionAuthorityOrName	inspectionAuthorityOrName	
Body/InspectionDetails/InspectionResult	Body/InspectionDetails/InspectionResult	
inspectionPassed	inspectionPassed	
vehicleProhibitionOrRestriction	vehicleProhibitionOrRestriction	
ptiRequested	ptiRequested	
Body/IdentificationDetails	Body/IdentificationDetails	
Body/IdentificationDetails/VehicleDetails	Body/IdentificationDetails/VehicleDetails	
vehicleRegistrationNumber	vehicleRegistrationNumber	
vehicleRegistrationCountry	n/a	Discarded
vehicleIdentificationNumber	vehicleIdentificationNumber	
vehicleCategory	vehicleCategory	
odometerReading	odometerReading	
Body/IdentificationDetails/DriverDetails	Body/IdentificationDetails/DriverDetails	
familyName	familyName	
firstName	firstName	
drivingLicenceNumber	drivingLicenceNumber	
drivingLicenceCountry	drivingLicenceCountry	
Body/IdentificationDetails/TransportUndertakingDetails	Body/IdentificationDetails/TransportUndertakingDetails	

RoadSideInspection_Request (v3.5)	RoadSideInspection_Request (v2.4)	Notes
transportUndertakingName	transportUndertakingName	
communityLicenceNumber	communityLicenceNumber	
Body/IdentificationDetails/TransportUndertakingDetails/ TransportUndertakingAddress	Body/IdentificationDetails/TransportUndertakingDetails/ TransportUndertakingAddress	
address	address	
postCode	postCode	
city	city	
country	country	
Body/IdentificationDetails/TransportUndertakingDetails/ HolderDetails	Body/IdentificationDetails/TransportUndertakingDetails/ HolderDetails	
registrationCertificate	registrationCertificate	
Body/IdentificationDetails/TransportUndertakingDetails/ HolderDetails/Company	Body/IdentificationDetails/TransportUndertakingDetails/ HolderDetails/Company	
address	address	
postCode	postCode	
city	city	
country	country	
companyName	companyName	
Body/IdentificationDetails/TransportUndertakingDetails/ HolderDetails/NaturalPerson	Body/IdentificationDetails/TransportUndertakingDetails/ HolderDetails/NaturalPerson	
address	address	
postCode	postCode	
city	city	

RoadSideInspection_Request (v3.5)	RoadSideInspection_Request (v2.4)	Notes
country	country	
familyName	familyName	
firstName	firstName	
Body/CheckedItems	Body/CheckedItems	
Body/CheckedItems/CheckedItem	Body/CheckedItems/CheckedItem	
itemType	itemType	
itemFailed	itemFailed	
Body/CheckedItems/CheckedItem/FailedChecks	Body/CheckedItems/CheckedItem/FailedChecks	
Body/CheckedItems/CheckedItem/FailedChecks/FailedCheck	Body/CheckedItems/CheckedItem/FailedChecks/FailedCheck	
failedReason	failedReason	
failedAssessment	failedAssessment	
isRectified	isRectified	

The responding Member State (MS2) sends a v2.4 RoadSideInspection_Response to the Hub. This is converted to a v3.5 RoadSideInspection_Response and forwarded to the original requesting Member State (MS1).

There is no differences between v2.4 and v3.5 RoadSideInspection_Response messages (except the schema namespace):

RoadSideInspection_Response (v2.4)	RoadSideInspection (v3.5)	Notes
Body	Body	
businessCaseId	businessCaseId	
originatingAuthority	originatingAuthority	
respondingAuthority	respondingAuthority	
statusCode	statusCode	

RoadSideInspection_Response (v2.4)	RoadSideInspection (v3.5)	Notes
statusMessage	statusMessage	

7.6.3. RSI Request Message Sample

```

<?xml version="1.0" encoding="UTF-8"?>
<RoadSideInspection_Request xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
  <Header version="3.1"
    technicalId="d7eeaeb1-7f6d-4717-b5ab-f395851f948f"
    workflowId="9dbb3870-6e54-4d2a-b7b4-a21e8e63c0dd"
    sentAt="2016-01-01T00:00:00Z"
    timeoutValue="2016-01-01T00:00:20Z"
    from="IE"
    to="UK"/>
  <Body businessCaseId="RSI Request Example"
    originatingAuthority="IE Competent Authority"
    requestPurpose="Control"
    requestSource="RSI">
    <InspectionDetails inspectionLocation="Rosslare N25"
      inspectionDateTime="2016-01-01T00:00:00Z"
      inspectionAuthorityOrName="RSA Ireland">
      <InspectionResult inspectionPassed="false"
        vehicleProhibitionOrRestriction="true"
        ptiRequested="true"/>
    </InspectionDetails>
    <IdentificationDetails>
      <VehicleDetails vehicleRegistrationNumber="FAB1"
        vehicleRegistrationCountry="UK"
        vehicleIdentificationNumber="SCA00000100000001"
        vehicleCategory="M1"
        odometerReading="2201"/>
      <DriverDetails familyName="Creighton-Ward"
        firstName="Penelope"
        drivingLicenceNumber="CREIG312249P99IR"
        drivingLicenceCountry="UK"/>
      <TransportUndertakingDetails transportUndertakingName="International Rescue"
        communityLicenceNumber="CL-IR-000001-001">
        <TransportUndertakingAddress address="Tracy Villa"
          postCode="SP1"
          city="Tracy Island"
          country="UK"/>
      </TransportUndertakingDetails>
    </IdentificationDetails>
    <CheckedItems>
      <CheckedItem itemType="6"
        itemFailed="true">
        <FailedChecks>
          <FailedCheck failedReason="6.2.7"
            failedAssessment="Major"
            isRectified="false"/>
        </FailedChecks>
      </CheckedItem>
    </CheckedItems>
  </Body>
</RoadSideInspection_Request>

```

Figure 22 - RSI Request Message Example

7.6.4. RSI Response Message Sample

```
<?xml version="1.0" encoding="UTF-8"?>
<RoadSideInspection_Response xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
  <Header version="3.1"
    technicalId="d10ace70-5369-4827-958e-5e120cec78d3"
    workflowId="9dbb3870-6e54-4d2a-b7b4-a21e8e63c0dd"
    sentAt="2016-01-01T00:00:04Z"
    from="UK"
    to="IE"/>
  <Body businessCaseId="RSI Request Example"
    originatingAuthority="IE Competent Authority"
    respondingAuthority="UK Competent Authority"
    statusCode="OK"/>
</RoadSideInspection_Response>
```

Figure 23 - RSI Response Message Example

7.7. Error Notification (EN)

When the Hub or a MS receives a message that cannot be processed (because of incorrect data or format), or when other technical issues prevent a message from being processed, the sending MS is notified of the error via an EN message.

7.7.1. Error workflowId

The *workflowId* of the message that caused the error should be used in the ErrorNotification message. However, it may not be possible to determine the workflowId from the incoming message – it may be corrupted for example. In this case a new GUID should be created and assigned to the *workflowId* attribute of the ErrorNotification message.

If the message is not readable as XML (if it's not correctly formatted) then an attempt should be made to extract the workflowId from the original message by treating it as a string and using a regular expression (`workflowId="(.*?)"`). Only if this fails should a new workflowId be created for the ErrorNotification.

The following diagrams show the ErrorNotification message for failures at different points in the workflow:

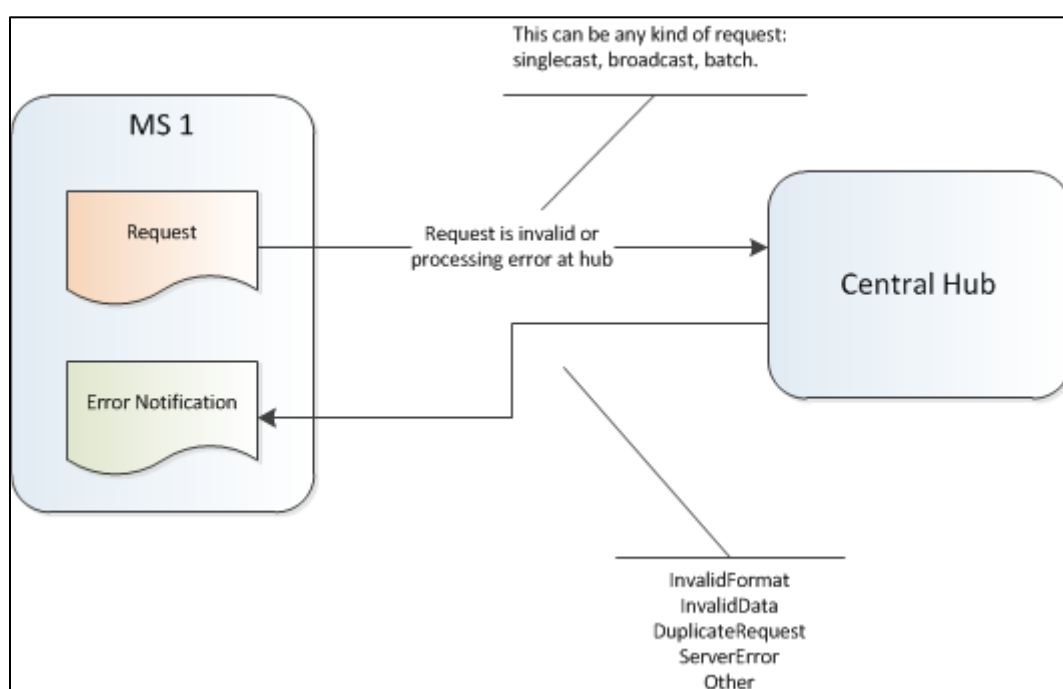


Figure 24 - Error in Request

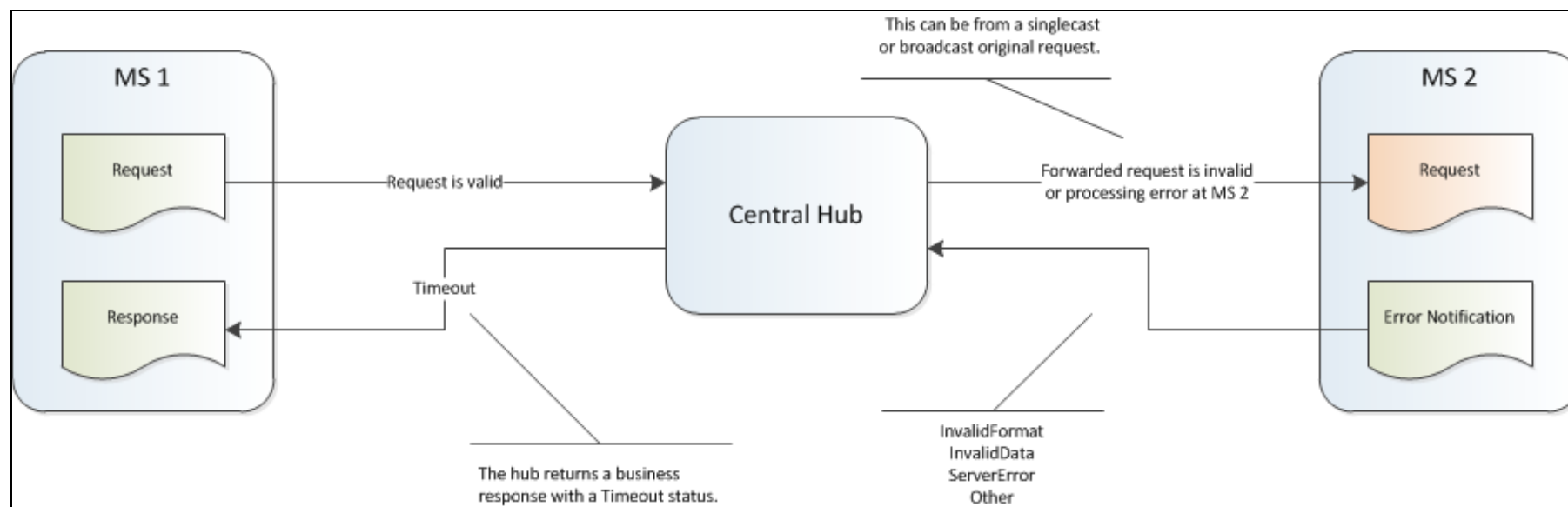


Figure 25 - Error in Forwarded Request

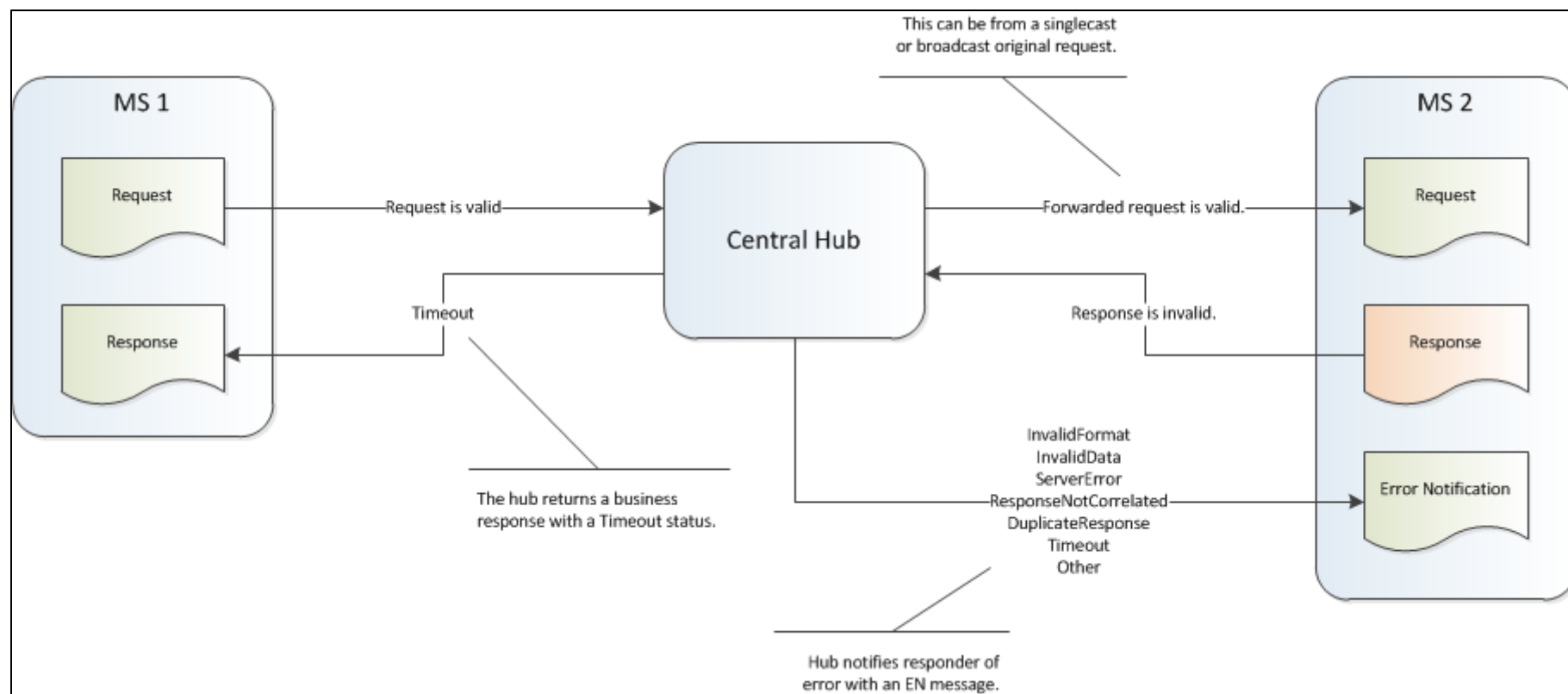


Figure 26 - Error in Response

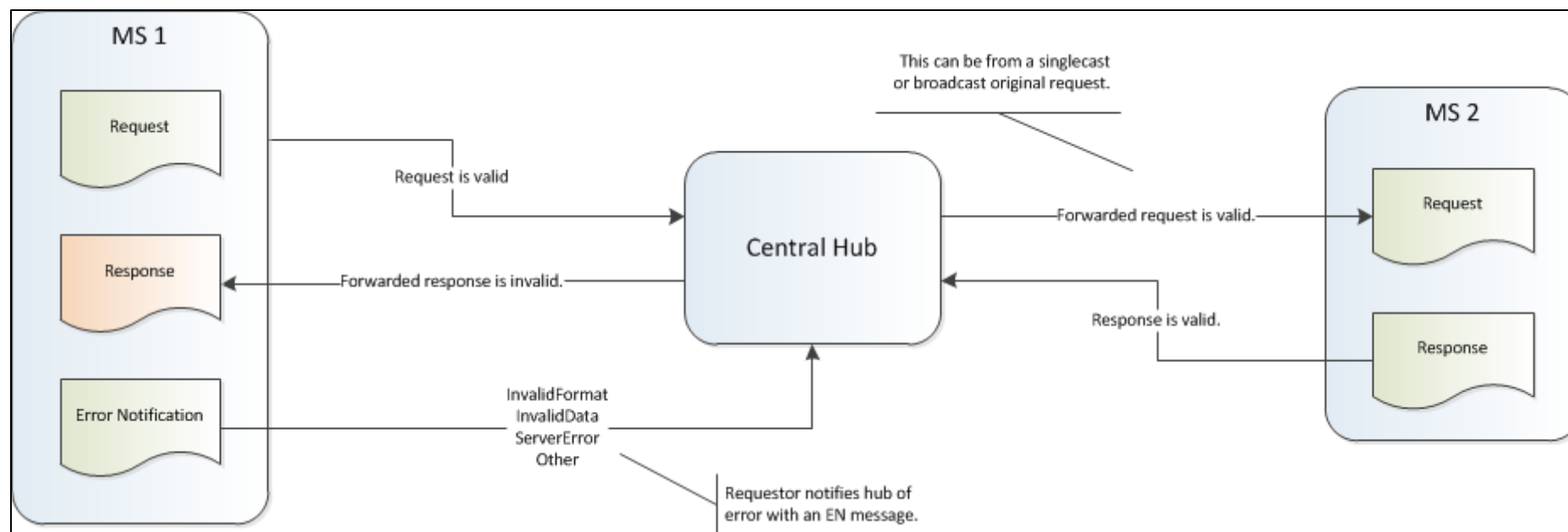


Figure 27 - Error in Forwarded Response

7.7.2. *EN Message Sample*

```
<?xml version="1.0" encoding="UTF-8"?>
<ErrorNotification xmlns="https://webgate.ec.testa.eu/move-hub/erru/3.1">
  <Header version="3.1"
    technicalId="5a4b12de-272a-41ed-a27c-37622d9a2528"
    workflowId="74531ce0-d6ab-4632-bb01-cd589f55ac08"
    sentAt="2016-01-01T00:00:00Z"
    from="IE"
    to="EU"/>
  <Body businessCaseId="Error Notification Example"
    statusCode="InvalidFormat"
    statusMessage="XML not well-formed.">
    <OriginalMessage>
      &lt;?xml version=&quot;1.0&quot; encoding=&quot;UTF-8&quot;?&gt;&lt;CheckTransportUndertakingData_Request
        xmlns=&quot;https://webgate.ec.testa.eu/move-Hub/ERRU/3.1&quot;&gt;
          &lt;Header
            version=&quot;3.1&quot; technicalId=&quot;1d061fe6-5dd1-4325-bed3-3f6f388a538e&quot;
            workflowId=&quot;782dec67-f3ac-48f9-9fc6-9d0cc0123f9b&quot; sentAt=&quot;2016-01-
              01T00:00:00Z&quot; timeoutValue=&quot;2016-01-01T00:00:20Z&quot; from=&quot;IE&quot;
            to=&quot;UK&quot;&gt;&lt;/Header>
          &lt;Body businessCaseId=&quot;CIC Request Example&quot;
            requestPurpose=&quot;Control&quot; requestSource=&quot;RSI&quot;&gt;&lt;SearchCriteria
              cardNumber=&quot;C6235B5410196509&quot;/&gt;&lt;/Body&gt;
          &lt;/OriginalMessage>
        &lt;/Body>
      &lt;/ErrorNotification>
```

Figure 28 - Error Notification Message Example

Appendix 1 MOST SERIOUS INFRINGEMENTS

Infringement Code	Description
101	Exceed maximum total driving time during 2 consecutive weeks by 25% or more 112h30≤ ...
102	Exceed daily driving time of 9h by 50% or more without taking a break or without any rest of at least 4,5 hours 13h30 ≤... and no break / rest
103	Exceed daily driving time of 10h by 50% or more without taking a break of or without any rest of at least 4,5 hours 15h ≤... and no break / rest
104	Exceed weekly driving time by 25% or more 70h≤ ...
201	Not having type approved tachograph installed and used (<i>e.g.: not having a tachograph installed by fitters, workshops or vehicle manufacturers approved by the competent authorities of the Member States, using a tachograph without the necessary seals placed or replaced by an approved fitter, workshop or vehicle manufacturer or using a tachograph without the installation plaque</i>)
202	Using a fraudulent device able to modify the records of the tachograph
203	Speed limitation device not fitted
204	Using a fraudulent device able to falsify data of speed limitation device or using a fraudulent speed limitation device
205	Falsifying, concealing, supressing or destroying data recorded on the record sheets or stored and downloaded from the tachograph and/or the driver card
301	Driving without a valid proof of roadworthiness tests passed, as required by the EU law
302	Not keeping a vehicle in a safe and roadworthy condition resulting in a very serious deficiency of the braking system, the steering linkages, the wheels/tires, the suspension or chassis or other equipment that would create such an immediate risk to road safety that it leads to a decision to immobilize the vehicle
401	Transporting dangerous goods that are prohibited for transport
402	Transporting dangerous goods in a prohibited or non-approved means of containment, thus endangering lives or the environment to such extent that it leads to a decision to immobilise the vehicle
403	Transporting dangerous goods without identifying them on the vehicle as dangerous goods, thus endangering lives or the environment to such extent that it leads to a decision to immobilise the vehicle
501	Carrying passengers or goods without holding a valid driving licence
503	Carrying passengers without holding a valid Community licence (<i>i.e.: a license is non-existent, falsified, withdrawn, expired etc.</i>)
504	Carrying goods without holding a valid Community licence (<i>i.e.: a license is non-existent, falsified, withdrawn, expired etc.</i>)
601	Driving with a driver card that has been falsified (<i>considered as driving without driver card</i>)
602	Driving with a driver card of which the driver is not the holder (<i>considered as driving without driver card</i>)
603	Driving with a driver card which has been obtained on the basis of false declarations and/or forged documents (<i>considered as driving without driver card</i>)
701	Exceed maximum permissible weight for N3 vehicles 20%≤ ...
702	Exceed maximum permissible weight for N2 vehicles 25%≤ ...

Appendix 2 VERY SERIOUS INFRINGEMENTS

Infringement Code	Description
800	Exceed daily driving time of 9h if possibilities to extend to 10h not allowed 11h≤...
801	Exceed extended daily driving time of 10h if extension allowed 12h≤ ...
802	Exceed weekly driving time 65h≤...<70
803	Exceed maximum total driving time during 2 consecutive weeks 105h≤ ...<112h30
804	Exceed uninterrupted driving time of 4,5 hours before taking the break 6h≤...
805	Insufficient daily rest period of less than 11h if reduced daily rest period not allowed ...<8h30
806	Insufficient reduced daily rest period of less than 9h if reduce allowed ...<7h
807	Insufficient split daily rest period of less than 3h+9h 3h+[...<7h]
808	Insufficient daily rest period of less than 9h for multi-manning ...<7h
809	Insufficient reduced weekly resting period of less than 24h ...< 20h
810	Insufficient weekly resting period of less than 45 h if reduced weekly resting period not allowed ...<36h
811	Exceeding 6 consecutive 24-hour periods following the previous weekly rest period 12h≤...
812	Exceeding 12 consecutive 24-hours periods following a previous regular weekly rest 12h≤...
813	Weekly rest period taken following 12 consecutive 24-hours periods ...≤65h
814	Driving period, between 22.00 and 6.00, of more than 3 hours before the break, if the vehicle is not multi-manned 4,5h≤...
815	Link between wage and distance travelled or amount of goods carried
816	No or improper organisation of driver's work, no or improper instructions given to driver enabling him to comply with the law
817	Using a tachograph not inspected by an approved workshop
818	Driver holding and/or using more than one own driver card
819	Tachograph not correctly functioning (<i>e.g.: tachograph not properly inspected, calibrated and sealed</i>)
820	Tachograph improperly used (<i>e.g.: deliberate, voluntary or imposed misuse, lack of instructions on correct use, etc.</i>)
821	Undertaking not keeping record sheets, printouts and downloaded data
822	Recorded and stored data not available for at least a year
823	Incorrect use of record sheets/driver card
824	Unauthorized withdrawal of record sheets or driver card which has an impact on the record of relevant data
825	Record sheet or driver card used to cover a period longer than that for which it is intended and data is lost
826	Use dirty or damaged record sheets or drivers card and data not legible
827	Not using manual input when required to do so
828	Incorrect use of switch mechanism
829	Refuse to be checked
832	Unable to produce manual records and printouts made during the current day and the previous 28 days

Infringement Code	Description
833	Unable to produce a driver card, if the driver holds one
834	Tachograph not repaired by an approved fitter or workshop
835	Driver not marking all required information for the periods of time, which are no longer recorded while tachograph is unserviceable or malfunctioning
836	Exceeding maximum weekly working time of 48h if possibilities to extend to 60h already consumed 60h≤ ...
837	Exceeding maximum weekly working time of 60h if no derogation under Art.8 granted 70h≤ ...
838	Insufficient obligatory break taken when working time between 6 and 9 hours ... ≤ 10 min
839	Insufficient obligatory break taken when working time over 9 hours ... ≤20 min
840	Daily working time in each 24h when night work performed if no derogation under Art.8 granted 13h≤ ...
841	Employers falsifying working time records or refusing to provide records to inspection officer
842	Employed/self-employed drivers falsifying records or refusing to provide records to inspection officer
843	Exceed maximum permissible weight for N3 vehicles 10%≤...<20%
844	Exceed maximum permissible weight for N2 vehicles 15%≤...<25%
845	Exceed maximum permissible length 20 % ≤...
846	Exceed maximum permissible width 3,10 meters ≤...
847	Speed limitation device not satisfying the applicable technical requirements
848	Carrying goods or passengers without a compulsory initial qualification and/or compulsory periodic training
849	Leakage of dangerous substances
850	Carriage in bulk in a container which is not structurally serviceable
851	Carriage in a vehicle without an appropriate certificate of approval
852	Vehicle no longer complies with the approval standards and presents an immediate danger
853	The rules governing the securing and stowage of the load have not been complied with
854	The rules governing mixed loading of packages have not been complied with
855	The provisions limiting the quantities carried in one transport unit have not been complied with, including permissible degrees of filling tanks or packages;
856	Information relevant to the substance being carried enabling determination of level of seriousness of offence is missing (e.g. <i>UN number, proper shipping name, packing group</i>)
857	Driver does not hold a valid vocational training certificate
858	Fire or an unprotected light is being used
859	The ban on smoking is not being observed.
860	The haulage undertaking or the driver unable to present a valid Community licence or a valid certified true copy of the Community licence to the inspecting officer (i.e.: <i>Community licence or certified true copy of the Community licence lost, forgotten, damaged, etc.</i>)
861	Carrying goods without holding a valid driver attestation (i.e. <i>driver's attestation is non-existent, falsified; withdrawn, expired etc.</i>)
862	The carrier or the driver unable to present a valid Community licence or a valid certified true copy of the Community licence to the inspecting officer (i.e. <i>licence or certified true copy lost, forgotten, damaged, etc.</i>)
863	Regular services without a valid authorisation (i.e.: <i>authorisation is non-existent, falsified, withdrawn, expired, misused etc.</i>)

Infringement Code	Description
864	Partitions are not strong enough to withstand the weight of animals
865	No compensation rest for two consecutive reduced weekly rest periods
866	Regular weekly rest period or any weekly rest period of more than 45 hours taken in a vehicle
867	Transport undertaking not organising the work of drivers in such a way that the drivers are able to return to the employer's operational centre, or to return to the drivers' place of residence
868	Required information not entered on the record sheet
869	Carrying out a cabotage operation not in compliance with the laws, regulations and administrative provisions in force in the host Member State
870	Carrying out cabotage operations in the same Member State within 4 days following the end of the last legitimate cabotage operation in that Member State
871	The haulier being unable to produce clear evidence of the preceding international carriage and/or of each consecutive cabotage operation carried out, and/or of all operations carried out in cases where the vehicle is present in the host Member State within the period of 4 days preceding the international carriage, and to present these evidences within the duration of the roadside check.
872	Carrying out a cabotage operation not in compliance with the laws, regulations and administrative provisions in force in the host Member State
873	Not having on board the vehicle or not being able to present at the request of any authorised inspecting officer the control documents for cabotage operations (journey form for occasional services, or the contract concluded between the carrier and the transport organiser or a certified true copy thereof in the case of special regular services)
874	Violation of the law applicable to contractual obligations
875	Incomplete information on the posting declaration
876	Failure to submit a posting declaration to the Member State to which the driver is posted no later than at the commencement of the posting
877	Falsified posting declaration for drivers
878	Impossibility of the driver to present a valid posting declaration
879	Failure to put at the disposal of the driver a valid posting declaration
	Failure to submit the requested documents to the host Member State within eight weeks from the date of the request

Appendix 3 SERIOUS INFRINGEMENTS

Infringement Code	Description
900	Not respecting minimum ages for conductors
901	Exceed daily driving time of 9h if possibilities to extend to 10h not allowed $10h \leq \dots < 11h$
902	Exceed extended daily driving time of 10h if extension allowed $11h \leq \dots < 12h$
903	Exceed weekly driving time $60h \leq \dots < 65h$
904	Exceed maximum total driving time during 2 consecutive weeks $100h \leq \dots < 105h$
905	Exceed uninterrupted driving time of 4,5 hours before taking the break $5h \leq \dots < 6h$
906	Insufficient daily rest period of less than 11h if reduced daily rest period not allowed $8h30 \leq \dots < 10h$
907	Insufficient reduced daily rest period of less than 9h if reduce allowed $7h \leq \dots < 8h$
908	Insufficient split daily rest period of less than 3h+9h $3h + [7h \leq \dots < 8h]$
909	Insufficient daily rest period of less than 9h for multi-manning $7h \leq \dots < 8h$
910	Insufficient reduced weekly resting period of less than 24h $20h \leq \dots < 22h$
911	Insufficient weekly resting period of less than 45 h if reduced weekly resting period not allowed $36h \leq \dots < 42h$
912	Exceeding 6 consecutive 24-hour periods following the previous weekly rest period $3h \leq \dots < 12h$
913	Exceeding 12 consecutive 24-hours periods following a previous regular weekly rest $3h \leq \dots < 12h$
914	Weekly rest period taken following 12 consecutive 24-hours periods $65h < \dots \leq 67h$
915	Driving period, between 22.00 and 6.00, of more than 3 hours before the break, if the vehicle is not multi-manned $3h < \dots < 4,5h$
916	Not using correct record sheet or driver card not in the correct slot (multi-manning)
917	Exceeding maximum weekly working time of 48h if possibilities to extend to 60h already consumed $56h \leq \dots 60h$
918	Exceeding maximum weekly working time of 60h if no derogation under Art.8 granted $65 \leq \dots < 70h$
919	Insufficient obligatory break taken when working time between 6 and 9 hours $10 < \dots \leq 20$ min
920	Insufficient obligatory break taken when working time over 9 hours $20 < \dots \leq 30$ min
921	Daily working time in each 24h when night work performed if no derogation under Art.8 granted $11h \leq \dots < 13h$
922	Exceed maximum permissible weight for N3 vehicles $5\% \leq \dots < 10\%$
923	Exceed maximum permissible weight for N2 vehicles $5\% \leq \dots < 15\%$
924	Exceed maximum permissible length $2\% < \dots < 20\%$
925	Exceed maximum permissible width $2,65 \leq \dots < 3,10$ meters
926	Speed limitation device not fitted by an approved workshop
927	Driver unable to present the valid qualification card or the driving licence with the marking, as required by the national law (<i>e.g.: lost, forgotten, damaged, unreadable</i>)
928	Using a driving licence which is damaged or unreadable or not in line with common model

Infringement Code	Description
929	The vehicle is not properly supervised or parked
930	The transport unit comprises more than one trailer/semi-trailer
931	Vehicle no longer complies with the approval standards but does not present an immediate danger
932	The vehicle is not carrying operational fire extinguishers as required
933	The vehicle does not carry the equipment required in the ADR or in the instructions in writing
934	Packages with damaged packaging, IBCs or large packaging or damaged uncleaned empty packaging are being carried
935	Carriage of packaged goods in a container which is not structurally serviceable
936	Tanks/tank containers (including ones that are empty and uncleaned) have not been closed properly
937	Incorrect labelling, marking or placarding on the vehicle and/or containment
938	There are no instructions in writing conforming to the ADR, or the instructions in writing are not relevant to the goods carried
939	The driver or the haulage undertaking unable to present a valid driver attestation or a valid certified true copy of the driver attestation to the inspecting officer (<i>i.e. driver attestation or certified true copy of the driver attestation lost, forgotten, damaged, etc.</i>)
940	The driver unable to present the authorisation to the inspecting officer (<i>i.e. authorisation is lost, forgotten, damaged, etc.</i>)
941	Stops of regular services in a Member State do not correspond to the issued authorisation
942	Driving without holding a required journey form (<i>i.e. journey form is non-existent, falsified, not containing the required information, etc.</i>)
943	Using loading or unloading ramps that has slippery surfaces, that lack lateral protections or that are too steep
944	Using lifting platforms or upper floors that do not have safety barriers preventing animals from falling or escaping during loading and unloading operations
945	Means of transport not approved for long journeys, or not approved for the type of animals being transported.
946	Transporting without valid required documentation, journey log or transporter authorisation or certificate of competence
947	The employer not covering costs for accommodation outside the vehicle
948	Incorrect use or non-use of the ferry/train sign
949	Records not showing the symbols of the countries whose borders were crossed by the driver during the daily working period
950	Records not showing the symbols of the countries where the driver's daily working period started and finished
951	Incomplete information on the posting declaration
952	Failure of the operator to keep the posting declarations up to date in the public interface connected to IMI

Appendix 4 GLOSSARY

This table is a list of terms used when referring to the MOVEHUB applications and is used in all MOVEHUB documentation. As such it will contain terms that are not pertinent to this document.

AETR	The European Agreement Concerning the Work of Crews of Vehicles Engaged in International Road Transport
CAB	Change Advisory Board
CCB	Change Control Board
CTUD	Check Transport Undertaking Data The message type exchanged by ERRU to determine the status of a road transport undertaking's Community Licence.
CCS	Check Card Status The message type exchanged by ERRU to retrieve details of a specified driver card from another member state.
CGR	Check Good Repute The message type exchanged by ERRU to determine the repute of a transport manager.
CIA	Card Issuing Authority The body responsible for issuing driver cards within a member state.
CIC	Check Issued Cards The message type exchanged by ERRU to search for driver cards by name and surname in other member states.
CPC	Certificate of Professional Competency Managers of a road transport undertaking must hold a certificate of professional competence (and be of good repute).
DC	Driver card The tachograph driver card.
DIGIT	Directorate General for Informatics
DL	Driving Licence
DLIA	Driving Licence Authority The body responsible for issuing driving licences within a member state.
EC	European Commission
ENER	Directorate-General for Energy of the European Commission
ERRU	European Register of Road Transport Undertakings A network interconnecting the national registers of road transport managers.
ERRU	The abbreviation for ERRU and used in this document to mean the ERRU network encompassing the HUB and the MS applications.
EU	European Union
Hub	The central Hub that is hosted at the EC and routes messages between MS.

ICDL	<p>Issued Card Driving Licence</p> <p>The message type exchanged by ERRU to inform a driving licence issuing member state that a driver card has been issued against that licence in another member state.</p>
INF	<p>Notification of Check Result</p> <p>The message type exchanged by ERRU to inform the member state of establishment that a haulier has committed an infringement in another member state.</p>
KPI	Key Performance Indicator
MCS	<p>Modify Card Status</p> <p>The message type exchanged by ERRU to send a driver card status modification to another member state.</p>
MOVE	Directorate-General for Mobility and Transport of the European Commission.
MOVEHUB	The generic term used to refer to the applications managed by MOVE (ERRU, RESPER, ERRU).
MS	<p>Member State(s)</p> <p>Within this document the abbreviation MS refers to all connected countries and not just the 27 European Union member states.</p>
NCP	<p>National Contact Point</p> <p>The national authority to whom all ERRU requests via phone / email / post can be directed.</p>
PKI	<p>Public Key Infrastructure</p> <p>The provision and management of digital certificates identification and encryption.</p>
RESPER	<p>Réseau de Permis de Conduire</p> <p>A network interconnecting the national driving licence registers.</p>
RSI	Road Side Inspection
SLA	Service Level Agreement
SPOC	<p>Single Point of Contact</p> <p>The technical connection between the ERRU central Hub & MS systems.</p>
SRD	<p>Shared Resource Directorate</p> <p>At the European Commission, a Directorate responsible for providing horizontal services to more than one DG or Directorate-General, including IT and supporting services, in this case to MOVE and ENER</p>
TESTA	<p>Trans European Services for Telematics between Administrations</p> <p>The EU's private network interconnecting all EU Institutions, EU agencies, Member States' administrations and European Economic Area (EEA) countries.</p>
XSD	XML Schema Definition