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TACHOnet

Submitted by Portugal

This document, submitted by Portugal in its capacity as holder of European Union Presidency, contains a revised draft text on a possible new annex to the AETR Agreement related to TACHOnet. This document reproduces Informal document no. 3 (June 2021) which revises ECE/TRANS/SC.1/GE.21/2019/1/Rev.2.



New appendix to the AETR

Appendix 4

TACHOnet Specifications of the system of electronic exchange of information on driver cards

1. Scope and purpose

1.1. This appendix sets out the terms and conditions regarding the connection of AETR Contracting Parties to **the system of electronic exchange of information on driver cards TACHOnet** through eDelivery.

1.2. Contracting Parties connecting to **the system of electronic exchange of information on driver cards TACHOnet** through eDelivery shall abide by the provisions laid down in this Appendix.

2. Definitions

(a) 'Contracting party' or 'party' means any Contracting party to the AETR;

(b) 'eDelivery' means the service developed by the European Commission making possible to transmit data between third parties by electronic means, providing evidence relating to the handling of the transmitted data, including proof of sending and receiving the data, and protecting transmitted data against the risk of any unauthorised alteration;

~~(c) 'TACHOnet' means the system for the electronic exchange of information on driver cards between contracting parties set out by the European Commission;~~

~~(cd)~~ 'Central hub' means the information system enabling the routing of **TACHOnet** messages between requesting and responding parties;

(e) 'Requesting party' means the contracting party emitting a ~~TACHOnet~~ request or a notification, which is then routed to the appropriate responding party by the central hub;

(f) 'Responding party' means the contracting party to whom the **TACHOnet** request or notification is addressed;

(g) 'Card issuing authority' or 'CIA' means the entity empowered by a contracting party for the issuing and management of tachograph cards;

(h)' 'Data subject' means a natural person whose data are being exchanged through **the system of electronic exchange of information on driver cards TACHOnet**;

(h) 'Personal data' means any information exchanged through **the system of electronic exchange of information on driver cards TACHOnet**, that may lead to the identification of the data subject, such as a name or an identification number;

(i) 'Personal data breach' means a breach of data security leading to the accidental or unlawful destruction, loss, alteration, unauthorised disclosure of, or access to, personal data transmitted, stored or otherwise processed;

(j) 'Automatic processing' includes the following operations if carried out in whole or in part by automated means: storage of data, carrying out of logical and/or arithmetical operations on those data, their alteration, erasure, retrieval or dissemination;

3. General responsibilities

3.1. Neither contracting party may conclude agreements for the access to **the system of electronic exchange of information on driver cards TACHOnet** on behalf of another party or in any other way represent the other contracting party on the basis of this Appendix. Neither contracting party acts as the other contracting party's subcontractor in the operations referred to in this Appendix.

3.2. The contracting parties shall provide access to their national register on driver cards through **the system of electronic exchange of information on driver cards TACHOnet**, in the way and with the level of service set out in Sub-appendix 4.6.

3.3. The contracting parties shall notify each other without delay if they observe disturbances or errors within their domain of responsibility, which may endanger the fulfilling of the normal operation of **the system of electronic exchange of information on driver cards TACHOnet**.

3.4. Each party shall designate contact persons for **the system of electronic exchange of information on driver cards TACHOnet** to the AETR Secretariat. Any change in contact points must be provided to the AETR Secretariat in writing.

4. Tests for connection to **the system of electronic exchange of information on driver cards TACHOnet**

4.1. The connection of a contracting party to **the system of electronic exchange of information on driver cards TACHOnet** shall be established after the successful completion of the connection, integration and performance tests in accordance with the instructions and under the supervision of the European Commission.

4.2. In case of failure of the preliminary tests, the European Commission may temporarily put on hold the testing phase. The tests shall resume once the contracting party has communicated to the European Commission the adoption of the necessary technical improvements at national level, allowing the successful performance of the preliminary tests.

4.3. The maximum duration of the preliminary tests shall be six months.

5. Trust architecture

5.1. Confidentiality, integrity and non-repudiation of the ~~TACHOnet~~ messages shall be ensured by the ~~TACHOnet~~ trust architecture **of the system of electronic exchange of information on driver cards**.

5.2. The ~~TACHOnet~~ trust architecture shall be based on a public key infrastructure (PKI) service set up by the European Commission, whose requirements are laid down in Sub-appendices 4.8 and 4.9.

5.3. The following entities shall intervene in the ~~TACHOnet~~ trust architecture:

(a) Certification Authority, responsible for the generation of the digital certificates to be ~~delivered—issued (after the request has been validated by the Registration AuthorityRequest Validation Body) to be for download by~~ the national authorities of the contracting parties (via ~~trusted couriers appointed by them~~**the Certification Authority PKI system online portal**), as well as for setting up the technical infrastructure regarding the issuance, revocation and renewal of digital certificates.

(b) Domain Owner, responsible for the operation of the central hub referred to in Sub-appendix 4.1 and for the validation and coordination of the ~~TACHOnet~~ trust architecture.

(c) ~~Registration—AuthorityRequest Validation Body~~, responsible for **authenticating the identity of the requesting organisation, its contact points and trusted couriers. As part of the regular ERCA sessions, the competent National Authorities will be able to submit, via the ERCA trusted courier, certificate requests for validation. The JRC will validate certificate requests as part of the validation phone call made to the ERCA contact person (officially designated by the MSA) in the course of the ERCA sessionsregistering and approving the requests of issuance, revocation and renewal of digital certificates, and for verifying the identity of the trusted couriers.**

(d) **Trusted Courier, is a natural person appointed by the responsible of the national authority for authenticating the certificate request towards the Request Validation body and for getting the corresponding certificate from the Certification Authoritythe person appointed by the national authorities, responsible for handing the public key to the Registration Authority and for getting the corresponding certificate being generated by the Certification Authority.**

(e) National authority from the contracting party, which shall:

(i) generate the private keys and the corresponding public keys to be included in the certificates to be generated by the Certification Authority;

- (ii) request the digital certificates to the Certification Authority;
- (iii) appoint the Trusted Courier.

5.4. The Certification Authority and the ~~Registration Authority~~**Request Validation Body** shall be appointed by the European Commission.

5.5. Any contracting party connecting to **the system of electronic exchange of information on driver cards-TACHOnet** must request the issuance of a digital certificate in accordance with Sub-appendix 4.9, in order to sign and encrypt a TACHOnet message.

5.6. A certificate may be revoked in accordance with Sub-appendix 4.9.

6. Data protection and confidentiality

6.1. The parties shall adopt all necessary technical and organisational measures to guarantee the security of the TACHOnet data **exchanged through the system of electronic exchange of information on driver cards** and prevent the alteration or loss of, or unauthorised processing of or access to such data (in particular the authenticity, data confidentiality, traceability, integrity, availability and non-repudiation and security of the messages).

6.2. In the case where a party becomes aware of a personal data breach, it will inform the European Commission as soon as possible and use reasonable and appropriate means to remedy the personal data breach and minimize the potential adverse effects.

6.3. The parties shall enable the data subject whose personal data has been obtained through TACHOnet **the system of electronic exchange of information on driver cards** to:

Article I (a) obtain confirmation on whether the personal data relating to the data subject are stored in a data file as well as communication to him of such data in a concise, transparent, intelligible and easily accessible form;

Article II (b) obtain, as the case may be, rectification of inaccurate personal data without undue delay;

Article III (c) obtain, as the case may be, erasure of personal data, if these are not needed anymore by the party, or if they have been processed unlawfully or contrary to the basic principles set out in Articles 5 and 6 of the Convention for the Protection of Individuals with Regard to Automatic Processing of Personal Data (henceforth “the Convention”);

Article IV (d) object, on grounds relating to his or her particular situation, at any time to processing of personal data concerning him or her by a party;

Article V 6.4. When automatic processing of personal data obtained through **the system of electronic exchange of information on driver cards-TACHOnet** is needed, it shall be carried out in accordance with the Convention.

6.5. The parties shall identify any personal data transferred to a requesting party through **the system of electronic exchange of information on driver cards-TACHOnet** and provide general information, like for instance in a website, about safeguards applicable to transfers to other parties.

6.6. The responding party shall transfer personal data through **the system of electronic exchange of information on driver cards-TACHOnet** only for the legitimate and specific purpose of assisting the requesting party to fulfil this Agreement. The requesting party will not further process the personal data in a manner that is incompatible with these purposes.

6.7. The responding party shall only transfer personal data in accordance with this Agreement.

6.8. A requesting party receiving personal data through **the system of electronic exchange of information on driver cards-TACHOnet** shall only transfer the personal data to a third party when this third party is a national body competent for the inspection or enforcement of driving time and rest periods in accordance with this Agreement.

6.9. The requesting parties shall retain personal data for no longer than necessary and appropriate for the purpose for which the data are processed. Such retention period shall

comply with the applicable laws, rules and regulations governing the retention of such data in the jurisdiction of the requesting party.

7. Costs

7.1. The contracting parties shall bear their own development and operation costs in conjunction to their own data systems and procedures as required to fulfil the obligations according to this Appendix.

7.2. The services specified in Sub-appendix 4.1, provided by the central hub, are free of charge.

8. Subcontracting

8.1. The parties may subcontract any of the services for which they are responsible under this Appendix.

8.2. Such subcontracting does not relieve the party from the responsibility pursuant to this Appendix, including the responsibility for the appropriate level of service in accordance with Sub-appendix 4.6.

Sub-appendix 4.1

General aspects of the system of electronic exchange of information on driver cards TACHOnet

1. General description

~~The system of electronic exchange of information on driver cards TACHOnet is an electronic system for the exchange of information on driver cards. TACHOnet routes the requests for information from the requesting parties to the responding parties, as well as the replies from the latter to the former. Contracting parties being part of the system of electronic exchange of information on driver cards TACHOnet must connect their national registers on driver cards to the system.~~

2. Architecture

~~The TACHOnet messaging system~~ **of electronic exchange of information on driver cards** shall be composed of the following parts:

2.1. A central hub, which shall be able to receive a request from the requesting party, validate it and process it by forwarding it to the responding parties. The central hub shall wait for each responding party to answer, consolidate all the answers and forward the consolidated response to the requesting Party.

2.2. National systems of the parties, which shall be fitted with an interface capable of both sending requests to the central hub and receiving the corresponding replies. National systems may use propriety or commercial software to transmit and receive messages from the central hub.

3. Management

3.1. The central hub shall be managed by the European Commission, which shall be responsible for the technical operation and maintenance of the central hub.

3.2. The central hub shall not store data for a period exceeding six months, other than the logging and statistical data set out in Sub-appendix 4.7.

3.3. The central hub shall not provide access to personal data, except for authorized European Commission personnel, when necessary for the purpose of monitoring, maintenance and troubleshooting.

3.4. Each contracting party shall be responsible for:

3.4.1. The setup and management of their national systems, including the interface with the central hub.

3.4.2. The installation and maintenance of their national system, both hardware and software, whether proprietary or commercial.

3.4.3. The correct interoperability of their national system with the central hub, including the management of error messages received from the central hub.

3.4.4. Taking all the measures to ensure the confidentiality, integrity and availability of the information.

3.4.5. The operation of the national systems in accordance with the service levels set out in Sub-appendix 4.6.

Sub-appendix 4.2

**Functionalities of the system of electronic exchange of information on driver cards
TACHOnet**

1. The following functionalities shall be provided through **the system of electronic exchange of information on driver cards TACHOnet** messaging system:

1.1. Check Issued Cards (CIC): allows the requesting party to send a Check Issued Cards Request to one or all responding parties, in order to determine if a card applicant already possesses a driver card issued by the responding parties. The responding parties shall reply to the request by sending a Check Issued Cards Response.

1.2. Check Card Status (CCS): allows the requesting party to ask the responding party about the details of a card issued by the latter by sending a Check Card Status Request. The responding party shall reply to the request by sending a Check Card Status Response.

1.3. Modify Card Status (MCS): allows the requesting party to notify the responding party, through a Modify Card Status Request, that the status of a card issued by the latter has changed. The responding party shall reply with a Modify Card Status Acknowledgement.

1.4. Issued Card Driving License (ICDL): allows the requesting party to notify the responding party, through an Issued Card Driving Licence Request, that a card has been issued by the former against a driving licence issued by the latter. The responding party shall reply with an Issued Card Driving Licence Response.

2. Other message types deemed suitable for the efficient functioning of **the system of electronic exchange of information on driver cards TACHOnet** shall be included, for instance error notifications.

3. National systems shall recognize the card statuses listed in Table 1, when using any of the functionalities described in point 1. However, parties are not required to implement an administrative procedure that makes use of all of the listed statuses.

4. When a party receives a response or notification giving a status that is not used in its administrative procedures, the national system shall translate the status on the received message to the appropriate value in that procedure. The message shall not be rejected by the responding party, as long as the status in the message is listed in Table 1.

5. The card status listed in Table 1 shall not be used to determine if a driver card is valid for driving. When a party queries the register of the card issuing national authority via the CCS functionality, the response shall contain the dedicated field 'valid for driving'. The national administrative procedures shall be such that CCS responses always contain the appropriate 'valid for driving' value.

Table 1

Card statuses

Card Status	Definition
Application	The CIA has received an application to issue a driver card. This information has been registered and stored in the database with the generated search keys.
Approved	The CIA has approved the application for the tachograph card.
Rejected	The CIA did not approve the application.
Personalised	The tachograph card has been personalised.
Dispatched	The National Authority has dispatched the driver card to the relevant driver or delivering agency.
Handed Over	The National Authority has handed over the driver card to the relevant driver.
Confiscated	The driver card has been taken from the driver by the competent authority.
Suspended	The driver card has been taken temporarily from the driver.
Withdrawn	The CIA has decided to withdraw the driver card. The card has been permanently invalidated.
Surrendered	The tachograph card has been returned to the CIA and declared no longer needed.
Lost	The tachograph card has been declared lost to the CIA.

Card Status	Definition
Stolen	The tachograph card has been reported stolen to the CIA. A stolen card is considered lost.
Malfunctioning	The tachograph card has been reported as malfunctioning to the CIA.
Expired	The period of validity of the tachograph card has expired.
Replaced	The tachograph card, which has been reported lost, stolen or malfunctioning, has been replaced by a new card. The data on the new card is the same, with the exception of the card number replacement index, which has been increased by one.
Renewed	The tachograph card has been renewed because of a change of administrative data or the validity period coming to an end. The card number of the new card is the same, with the exception of the card number renewal index, which has been increased by one.
In Exchange	The CIA that issued a driver card has received a notification that the procedure to exchange that card for a driver card issued by the CIA of another Party has started.
Exchanged	The CIA that issued a driver card has received a notification that the procedure to exchange that card for a driver card issued by the CIA of another Party has completed.

Sub-appendix 4.3

Message provisions of the system of electronic exchange of information on driver cards TACHOnet

1. General technical requirements
 - 1.1. The central hub shall provide both synchronous and asynchronous interfaces for the exchange of messages. Parties may choose the most suitable technology to interface with their own applications.
 - 1.2. All messages exchanged between the central hub and the national systems must be UTF-8 encoded.
 - 1.3. National systems shall be capable of receiving and processing messages containing Greek or Cyrillic characters.
2. XML messages structure and Schema definition (XSD)
 - 2.1. The general structure of XML messages shall follow the format defined by the XSD schemas installed in the central hub.
 - 2.2. The central hub and the national systems shall transmit and receive messages that conform to the message XSD schema.
 - 2.3. National systems shall be capable of sending, receiving and processing all messages corresponding to any of the functionalities set out in Sub-appendix 4.2.
 - 2.4. The XML messages shall include at least the minimum requirements laid down in Table 2.

Table 2

Minimum requirements for the content of the XML messages

<i>Common Header</i>		<i>Mandatory</i>
Version	The official version of the XML specifications will be specified through the namespace defined in the message XSD and in the <i>version</i> attribute of the Header element of any XML message. The version number ('n.m') will be defined as fixed value in every release of the XML Schema Definition file (xsd).	Yes
Test Identifier	Optional id for testing. The originator of the test will populate the id and all participants in the workflow will forward / return the same id. In production it should be ignored and will not be used if it is supplied.	No
Technical Identifier	A UUID uniquely identifying each individual message. The sender generates a UUID and populates this attribute. This data is not used in any business capacity.	Yes
Workflow Identifier	The workflowId is a UUID and should be generated by the requesting party. This id is then used in all messages to correlate the workflow.	Yes
Sent At	The date and time (UTC) that the message was sent.	Yes
Timeout	This is an optional date and time (in UTC format) attribute. This value will be set only by the central hub for forwarded requests. This will inform the responding party of the time when the request will be timed out. This value is not required in MS2TCN_<x>_Req and all response messages. It is optional so that the same header definition can be used for all message types regardless of whether or not the timeoutValue attribute is required.	No
From	The ISO 3166-1 Alpha 2 code of the party sending the message or 'EU'.	Yes
To	The ISO 3166-1 Alpha 2 code of the party to which the message is being sent or 'EU'.	Yes

Sub-appendix 4.4

Transliteration and NYSIIS (New York State Identification and Intelligence System) Services

1. The NYSIIS algorithm implemented in the central hub shall be used to encode the names of all the drivers in the national register.
2. When searching for a card via the CIC functionality the NYSIIS keys shall be used as the primary search mechanism.
3. Additionally, parties may employ a custom algorithm to return additional results.
4. The search results shall indicate the search mechanism which was used to find a record, either NYSIIS or custom.
5. If a party chooses to record ICDL notifications then the NYSIIS keys contained in the notification shall be recorded as part of the ICDL data. When searching the ICDL data the party shall use the NYSIIS keys of the applicant's name.

Sub-appendix 4.5

Security requirements

- 1. HTTPS shall be used for the exchange of messages between the central hub and the national systems.
- 2. National systems shall use the digital certificates referred to in Sub-appendices 4.8 and 4.9 for the purposes of securing the transmission of messages between the national system and the central hub.
- 3. National systems shall implement, as a minimum, certificates using the SHA-2 (SHA-256) signature hash algorithm and a 2048-bit public key length.

Sub-appendix 4.6

Service levels

1. National systems shall fulfil the following minimum level of service:
 - 1.1. They shall be available 24 hours a day, 7 days a week.
 - 1.2. Their availability shall be monitored by a heartbeat message issued from the central hub.
 - 1.3. Their availability rate shall be 98%, according to the following table (the figures have been rounded to the nearest convenient unit):

An availability of	<i>means an unavailability of</i>		
	Daily	Monthly	Yearly
98%	0.5 hours	15 hours	7.5 days

Parties are encouraged to respect the daily availability rate, however it is recognised that certain necessary activities, such as system maintenance, require a down time of more than 30 minutes. However, the monthly and yearly availability rates remain mandatory.

- 1.4. They shall respond to a minimum of 98% of the requests forwarded to them in one calendar month.
- 1.5. They shall respond to requests within 10 seconds.
- 1.6. The global request timeout (time within which the requestor may wait for a response) shall not exceed 20 seconds.
- 1.7. They shall be able to service a request rate of 6 messages per second.
- 1.8. National systems may not send requests to the ~~TACHOnet~~ **central** hub at a rate exceeding 2 requests per second.
- 1.9. Every national system shall be able to cope with potential technical problems of the central hub or national systems in other parties. These include, but are not limited to:
 - (a) loss of connection to the central hub;

- (b) no response to a request;
 - (c) receipt of responses after message timeout;
 - (d) receipt of unsolicited messages;
 - (e) receipt of invalid messages.
2. The central hub shall:
 - 2.1. feature an availability rate of 98%;
 - 2.2. provide to national systems notification of any errors, either via the response message or via a dedicated error message. The national systems, in turn, shall receive these dedicated error messages and have an escalation workflow in place to take any appropriate action to rectify the notified error.

3. Maintenance

Parties shall notify other parties and the European Commission of any routine maintenance activities via the web application, at least one week before the beginning of those activities if technically possible.

Sub-appendix

4.7

Logging and Statistics of the data collected at the central hub

1. In order to ensure privacy, the data for statistical purposes shall be anonymous. Data identifying a specific card, driver or driver licence shall not be available for statistical purposes.
2. Logging information shall keep track of all transactions for monitoring and debugging purposes and allow the generation of statistics about these transactions.
3. Personal data shall not be retained in the logs for more than 6 months. Statistical information shall be retained indefinitely.
4. The statistical data used for reporting shall include:
 - (a) the requesting party;
 - (b) the responding party;
 - (c) the type of message;
 - (d) the status code of the response;
 - (e) the date and time of the messages;
 - (f) the response time.

Sub-appendix 4.8

General provisions regarding digital keys and certificates for TACHOnet

1. The Directorate General for Informatics of the European Commission (DIGIT) shall make available a PKI service¹ (referred to as “CEF PKI service”) to the AETR Contracting Parties connecting to **the system of electronic exchange of information on driver cards TACHOnet** (henceforth the national authorities) through eDelivery.

2. The procedure for request and revocation of digital certificates, as well as the detailed terms and conditions for its usage, are defined in sub-appendix 4.9.

3. Usage of certificates:

3.1. Once the certificate is issued, the national authority², shall use the certificate only in the context of **the system of electronic exchange of information on driver cards TACHOnet**. The certificate can be used to:

- (a) authenticate the origin of data;
- (b) encrypt data;
- (c) ensure detection of integrity breaches of data.

3.2. Any usage not explicitly authorised as part of the permitted usages of the certificate is prohibited.

4. Contracting parties shall:

- (a) protect their private key against unauthorized use;
- (b) refrain from transferring or revealing their private key to third parties, even as representatives;
- (c) ensure confidentiality, integrity, and availability of the private keys generated, stored and used ~~for TACHOnet~~;
- (d) refrain from continued use of the private key following expiry of the validity period or revocation of the certificate, other than to view encrypted data (e.g., decrypting e-mails). Expired keys shall be either destroyed or retained in a manner preventing its use;
- (e) provide the ~~Registration Authority~~**Request Validation Body** with the identification of those authorised representatives who are authorized to request revocation of certificates issued to the organisation (revocation requests shall include a revocation request password and details about the events that lead to revocation);
- (f) prevent misuse of the private key by requesting the revocation of the associated public key certificate in case of compromise of the private key or of the private key activation data;
- (g) be responsible and hold the obligation of requesting revocation of certificate under circumstances identified in the certification policies (CP) and certification practices statement (CPS) of the Certification Authority;
- (h) notify the ~~Registration Authority~~**Request Validation Body** without delay of loss, theft, or potential compromise of any AETR keys used in the context of **the system of electronic exchange of information on driver cards TACHOnet**.

5. Liabilities

Without prejudice of the liability of the European Commission in contravention of any requirements laid down in applicable national law or with respect to liability for matters which may not be excluded under that law, the European Commission shall not be responsible or liable with regard to:

¹ A PKI (Public Key Infrastructure) is a set of roles, policies, procedures and systems needed to create, manage, distribute, and revoke digital certificates.

² Identified by the “O=” attribute value in the Subject Distinguished Name of the issued certificate

- (a) the content of the certificate which lies exclusively with the certificate owner. It shall be the responsibility of the certificate owner to check the accuracy of the certificate content;
- (b) the use of the certificate by its owner.

Sub-appendix 4.9

Description of the PKI service for the system of electronic exchange of information on driver cards TACHOnet

1. Introduction

- A PKI (Public Key Infrastructure) is a set of roles, policies, procedures and systems needed to create, manage, distribute, and revoke digital certificates³. The CEF PKI service of eDelivery enables issuance and management of digital certificates used to ensure confidentiality, integrity and non-repudiation of the information exchanged between Access Points (AP).

- The PKI service of eDelivery is based on the Trust Center Services TeleSec Shared Business CA (Certification Authority) for which the Certificate Policy (CP) / Certification Practices Statement (CPS) of TeleSec Shared-Business-CA of **Deutsche Telekom SecurityT-Systems International GmbH**⁴ apply.

- The PKI service issues certificates that are suitable for securing various business processes within and outside of companies, organisations, public authorities and institutions that require a medium security level to prove the authenticity, integrity and trustworthiness of the end-entity.

2. Certificate Request Process

2.1. Roles and responsibilities

2.1.1. 'Organisation' or 'national authority' requesting the certificate

2.1.1.1. The national authority shall request the certificates ~~in the context of the TACHOnet project.~~

2.1.1.2 The national authority shall:

- (a) request the certificates from the CEF PKI service;
- (b) generate the private keys and the corresponding public keys to be included in the certificates issued by the Certification Authority;
- (c) download the certificate when approved;
- (d) sign and send back to the ~~Registration Authority~~ **Request Validation Body**:
 - (i) the contact persons and trusted couriers identification form,
 - (ii) the signed individual Power of Attorney⁵.

2.1.2. Trusted Courier

2.1.2.1. The national authority shall appoint a Trusted Courier **if not already done for ERCA, the appointed Trusted Courier shall be the same for the system of electronic exchange of information on driver cards and ERCA.**

2.1.2.2. The trusted Courier shall:

- (a) **authenticate the certificate request towards the Request Validation body during a face-to-face identification and registration process already in place and well**

³ https://en.wikipedia.org/wiki/Public_key_infrastructure

⁴ The latest version of the CP and CPS can be downloaded on <https://www.telesec.de/en/sbca-en/support/download-area/>

⁵ A power of attorney is a legal document by which the Organisation empowers and authorises the European Commission represented by the identified official responsible for the CEF PKI service the power to request the generation of a certificate on its behalf from the **Deutsche Telekom Security GmbH** ~~T-Systems International GmbH~~ TeleSec Shared Business CA. See also point 6.

known for **ERCA signing sessions** hand over the public key to the Registration Authority during a face-to-face identification and registration process;

(b) get **download** the corresponding certificate from the **Certification Authority PKI system once the certificate has been issued and is available**. Registration Authority

2.1.3. Domain Owner

2.1.3.1. DG MOVE shall be the Domain Owner.

2.1.3.2. The Domain Owner shall:

(a) validate and coordinate the ~~TACHOnet~~ network **of the system of electronic exchange of information on driver cards** and the ~~TACHOnet~~ trust architecture, including the validation of the procedures for the issuance of the certificates;

(b) operate the ~~TACHOnet~~ central hub and coordinate the activity of the parties regarding the functioning of **the system of electronic exchange of information on driver cards** ~~TACHOnet~~;

(c) perform, along with national authorities, the tests of connection to **the system of electronic exchange of information on driver cards** ~~TACHOnet~~.

2.1.4. ~~Registration Authority~~ **Request Validation Body**

2.1.4.1. The Joint Research Centre (JRC) shall be the ~~Registration Authority~~ **Request Validation Body**.

2.1.4.2. The ~~Registration Authority~~ **Request Validation Body** shall be responsible for **authenticating the identity of the requesting organisation, its contact points and trusted couriers. The Request Validation Body shall validate certificate requests for the system of electronic exchange of information on driver cards as part of the validation phone call made to the ERCA contact person (officially designated by the MSA) in the course of the ERCA sessions** ~~verifying the identity of the trusted courier, for registering and approving the requests of issuance, revocation and renewal of digital certificates.~~

2.1.4.3. The ~~registration authority~~ **Request Validation Body** shall:

(a) assign the unique identifier to the national authority;

(b) authenticate the identity of the national authority, its contact points and trusted couriers;

(c) communicate with the CEF Support regarding the authenticity of the national authority, its contact points and trusted couriers;

(d) inform the national authority about the approval or rejection of certificate.

2.1.5. Certification Authority

2.1.5.1. The Certification Authority shall be responsible for the provision of the technical infrastructure for the request, issuing and revocation of digital certificates.

2.1.5.2. The Certification Authority shall:

(a) provide for the technical infrastructure for certificate requests by national authorities;

(b) validate or reject certificate request;

(c) communicate with the ~~Registration Authority~~ **Request Validation Body** for the identity verification of the requesting organisation, when required.

2.2. Certificate issuance

2.2.1. The certificate issuance shall be carried out in accordance with the following sequential steps:

(a) **Step 1:** Trusted courier identification;

(b) **Step 2:** Certificate request creation;

- (c) Step 3: Registration at ~~RA~~ the Request Validation Body;
- (d) Step 4: Certificate generation;
- (e) Step 5: Certificate publication;
- (f) Step 6: Certificate acceptance.

2.2.2. Step 1: Trusted Courier identification

The following process shall be carried out for the Trusted Courier identification:

- (a) The ~~Registration Authority~~**Request Validation Body** shall send to the national authority the contact persons and trusted couriers' identification form⁶ (**same as ERCA identification form**). This form shall ~~also include~~**be accompanied by** a power of attorney (PoA) that the organisation (AETR Authority) shall sign.
- (b) The national authority shall send back the completed form and signed PoA to the ~~Registration Authority~~**Request Validation Body**.
- (c) The ~~Registration Authority~~**Request Validation Body** shall acknowledge the good reception and completeness of the form.
- (d) The ~~Registration Authority~~**Request Validation Body** shall provide an updated copy of the list of contact persons and trusted couriers to the domain owner.

2.2.3. Step 2: Certificate request creation

2.2.3.1. The request and the retrieval of the certificate shall be done on the same computer and with the same browser.

2.2.3.2. The following process shall be carried out for the certificate request creation:

- (a) The Organisation shall navigate to the user web interface to request the certificate via the URL <https://sbca.telesec.de/sbca/ee/login/displayLogin.html?locale=en;> and shall enter the ~~username 'sbca/CEF_eDelivery.europa.eu' and the password 'digit.333'~~**credentials (username/password) received from the Certification Authority PKI system for the user portal.**
- (b) The Organisation shall click on 'request' on the left side of the panel and shall select 'CEF_TACHOnet' in the dropdown list.
- (c) The Organisation shall populate the certificate request form with the information in Table 3, clicking on 'Next (soft-PSE)' to finish the process.

⁶ See point 5

Table 3
Complete details of each requested field

<i>Requested Fields</i>	<i>Description</i>
Country	<p>C=Country Code, location of certificate owner, verified using a public directory;</p> <p>Constraints: 2 characters, in accordance to ISO 3166-1, alpha-2, Case Sensitive; Examples: DE, BE, NL,</p> <p>Specific cases: UK (for Great-Britain), EL (for Greece)</p>
Organisation/Company (O)	O=Organization name of the certificate owner
Master domain (OU1)	OU=CEF_eDelivery.europa.eu
Area of responsibility (OU2)	OU=CEF_TACHOnet
Department (OU3)	<p>Mandatory value per "AREA OF RESPONSIBILITY"</p> <p>The content must be checked using a positive list (white list) when the certificate is requested. If the information does not correspond to the list, the request is prevented.</p> <p>Format: OU=<TYPE>-<GTC_NUMBER></p> <p>Where "<TYPE>" is replaced by AP_PROD: Access Point in Production environment.</p> <p>And where <GTC_NUMBER> is GTC_OID-1.3.130.0.2018.xxxxxx, where Ares(2018)xxxxxx is the GTC number for the TACHOnet project.</p> <p>e.g.: AP_PROD-GTC_OID-1.3.130.0.2018.xxxxxx</p>
First name (CN)	Must be Empty
Last name (CN)	<p>Must start with "GRP:", followed by a common name.</p> <p>Format: CN=GRP:<AREA OF RESPONSIBILITY>_<TYPE>_<COUNTRY CODE>_<UNIQUE IDENTIFIER></p> <p>e.g.: GRP:CEF_TACHOnet_AP_PROD_BE_001</p>
E-mail	<u>E=CEF-EDELIVERY-SUPPORT@ec.europa.eu</u>
E-mail 1 (SAN)	Must be Empty
E-mail 2 (SAN)	Must be Empty
E-mail 3 (SAN)	Must be Empty
Address	Must be Empty
Street	Must be the official address of the Organisation of the Certificate Owner. (Used for the Power of Attorney.)
Street no.	Must be the official address of the Organisation of the Certificate Owner. (Used for the Power of Attorney.)
Zip Code	Must be the official address of the Organisation of the Certificate Owner. (Used for the Power of Attorney.)

<i>Requested Fields</i>	<i>Description</i>
	<u>Attention:</u> if the ZIP code is NOT a 5-digit ZIP code, leave the ZIP code field empty and put the ZIP code in the City field.
City	Must be the official address of the Organisation of the Certificate Owner. (Used for the Power of Attorney.) <u>Attention:</u> if the ZIP code is NOT a 5-digit ZIP code, leave the ZIP code field empty and put the ZIP code in the City field.
Phone no	Must be Empty
Identification data	The email address must be the same as the one used for registering the Unique Identifier. + Must be the name of the person representing the organisation. (Used for the Power of Attorney) + Commercial Register No (only mandatory for private organisations) Entered at the Local Court of (only required for German and Austrian private organisations)
Revocation password	Mandatory field chosen by the requestor
Revocation password repetition	Mandatory field chosen by the requestor repeated

- (d) The selected key length shall be 2048(High Grade).
- (e) The Organisation shall record the reference number to retrieve the certificate
- (f) The CEF Support Team shall check for new requests of certificates and verify if the information in the certificate request is valid.
- (g) The CEF Support Team shall verify that the information entered in the request is in a valid format.
- (h) When either check from points 5 or 6 above fails, the CEF Support Team shall send an email to the email address provided in the “Identification data” of the request form, with the Domain Owner in cc, in which the Organisation is requested to start the process again. The failed certificate request shall be cancelled.
- (i) The CEF Support Team shall send an email to the ~~Registration Authority~~ **Request Validation Body** about the validity of the request. The email shall include:
 - (1) the name of the Organisation, available in the field “Organisation (O)” of the certificate request;
 - (2) the certificate data including the name of the AP for which the certificate is to be issued, available in the field “Last Name (CN)” of the certificate request;
 - (3) the certificate reference number;
 - (4) the address of the Organisation, its email and the name of the person representing it.

2.2.4. Step 3: **Validation at ~~Registration Authority~~Request Validation Body**
(Certificate approvalrequest validation)

2.2.4.1. The Trusted Courier or contact point shall make an appointment with the ~~Registration Authority~~**Request Validation Body** via email exchange, identifying the Trusted Courier who will proceed to the face-to-face meeting.

2.2.4.2. The Organisation shall prepare the documentary package consisting in:

(a) the filled-in and signed power of attorney;

(b) a copy of the valid passport of the trusted courier who will perform the face-to-face. ~~This copy must be signed by one of the step 1 identified Organisation points of contact;~~

(c) the certificate request paper form signed by one of the points of contact of the Organisation.

2.2.4.3. The ~~Registration Authority~~**Request Validation Body** shall receive the Trusted Courier after identity screening at the building reception. The ~~Registration Authority~~**Request Validation Body** shall conduct the face-to-face registration of the certificate request by:

(a) identifying and authenticating the Trusted Courier;

(b) verifying the trusted courier physical appearance against the passport presented by the Trusted Courier;

(c) verifying the validity of the passport presented by the Trusted Courier;

(d) verifying the validated passport presented by the trusted courier against the copy of the valid passport of the trusted courier ~~signed by one of the identified points of contact of the Organisation. Signature is authenticated against the original "trusted courier and contact points identification form";~~

(e) verifying the filled-in and signed power of attorney;

(f) verifying certificate request paper form ~~and its signature against the original "trusted courier and contact points identification form";~~

(g) calling the signatory contact point to double check the identity of the trusted courier and the content of the certificate request.

2.2.4.4. The ~~Registration Authority~~**Request Validation Body** shall confirm to the CEF Support Team that the national authority is indeed authorized to operate the components for which it is asking the certificates and that the corresponding face-to-face registration process was successful. The confirmation shall be sent using a "CommiSign" certificate secure email, attaching a scanned copy of the authenticated face-to-face documentary package and of the signed process check list carried out by the ~~Registration Authority~~**Request Validation Body**.

2.2.4.5. If the ~~Registration Authority~~**Request Validation Body** confirms the validity of the request, the process shall carry on as set out in 2.2.4.6 and 2.2.4.7. Otherwise the certificate issuance shall be rejected and the Organisation shall be informed.

2.2.4.6. The CEF Support Team shall approve the certificate request and shall notify the ~~Registration Authority~~**Request Validation Body** the approval of the certificate.

2.2.4.7. The ~~CEF Support Team~~**Registration Authority** shall notify the Organisation that the certificate can be retrieved via the **Certification Authority PKI system** (user portal).

2.2.5. Step 4: Certificate generation

Upon approval of the certificate request, the certificate shall be generated.

2.2.6. Step 5: Certificate publication and retrieval

2.2.6.1. Following approval of the certificate request, **the CEF Support informs the Request Validation Body that the certificate is approved and informs that Organisation that the certificate can be retrieved.** ~~the Registration Authority shall retrieve the certificate and hand over a copy to the Trusted Courier.~~

2.2.6.2. The Organisation shall receive the notification from the Registration Authority that the certificates can be retrieved.

2.2.6.23. The Organisation shall navigate to the user portal at <https://sbca.telesec.de/sbca/ee/login/displayLogin.html?locale=en> and shall log in with the **credentials (username/password) received from the Certification Authority PKI system for the user portal** username "sbca/CEF_eDelivery.europa.eu" and the password "digit.333".

2.2.6.34. The Organisation shall click on the "fetch" button on the left-hand side and shall provide the reference number recorded during the certificate request process;

2.2.6.45. The Organisation shall install the certificates by clicking on the install button;

2.2.6.56. The certificate shall be installed on the Access Point. As this is implementation-specific, the Organisation shall refer to its Access Point provider to obtain the description of this process.

2.2.6.67. The following steps are needed for the certificate installation on the Access Point:

- (a) export the private key and the certificate,
- (b) create the keystore and the truststore,
- (c) install the keystore and the truststore on the access point.

3. Certificate revocation process

3.1. The Organization shall submit a revocation request through the **Certification Authority PKI system** (user web portal);

3.2. The CEF Support Team shall execute the certificate revocation.

4. General Terms and conditions of the CEF PKI service

4.1. Context

– In its capacity as Solution Provider of the eDelivery Building Block of the Connecting Europe Facility, DIGIT shall make available a PKI service⁷ ('CEF PKI service') to the AETR Contracting Parties. The CEF PKI service shall be used by national authorities ('end-Users') participating in **the system of electronic exchange of information on driver cards TACHOnet**.

– DIGIT is a PKI tenant within the TeleSec Shared-Business-CA solution ('SBCA') operated in the Trust Center of the Group unit **Deutsche Telekom Security GmbH** ~~† Systems International GmbH~~ (~~† T-Systems~~⁸). DIGIT plays the role of Master Registrar of the 'CEF_eDelivery.europa.eu' domain of the SBCA. In this role, DIGIT creates sub-domains within the 'CEF_eDelivery.europa.eu' domain for each project using the CEF PKI service.

– This document provides details on the terms and conditions of the ~~TACHOnet~~ sub-domain **of the system of electronic exchange of information on driver cards**. DIGIT plays the role of sub-Registrar of this sub-domain. In this capacity, it issues, revokes and renews the certificates of this project.

– 4.2. Disclaimer on liability

– The European Commission accepts no responsibility or liability whatsoever with regard to the content of the certificate which lies exclusively with the certificate owner. It is the responsibility of the certificate owner to check the accuracy of the certificate content.

⁷ A PKI (Public Key Infrastructure) is a set of roles, policies, procedures and systems needed to create, manage, distribute, and revoke digital certificates.

⁸ The trusted role of the Trust Center operator, located in the **Deutsche Telekom Security GmbH** ~~† Systems~~ Trust Center, also performs the task of internal ~~registration authority~~ **RequestValidation Body**.

The European Commission accepts no responsibility or liability whatsoever with regard to the use of the certificate by its owner being a third legal entity outside the European Commission.

This disclaimer is not intended to limit the liability of the European Commission in contravention of any requirements laid down in applicable national law or to exclude its liability for matters which may not be excluded under that law.

4.3. Authorised /prohibited uses of certificates

4.3.1. Permitted usage of certificates

Once the certificate is issued, the certificate owner⁹ shall use the certificate only in the context of **the system of electronic exchange of information on driver cards TACHOnet**. Within this context, the certificate can be used to:

authenticate the origin of data;
encrypt data;
ensure detection of integrity breaches of data.

4.3.2. Prohibited usage of certificates

Any usage not explicitly authorised as part of the permitted usages of the certificate is prohibited.

4.4. Additional obligations of the certificate owner

The detailed terms and conditions of the SBCA are defined by **Deutsche Telekom Security GmbHT-Systems** in the Certificate Policy (CP)/Certification Practice Statement (CPS) of the SBCA service¹⁰. This document includes security specifications and guidelines regarding technical and organizational aspects and describes the activities of the Trust Centre operator in the roles of Certification Authority (CA) and **Registration AuthorityRequest Validation Body (RA)** as well as the **Registration AuthorityRequest Validation Body's (RA)** delegated third party.

Only entities authorised to participate ~~TACHOnet~~ in **the system of electronic exchange of information on driver cards** can request a certificate.

Regarding certificate acceptance, clause 4.4.1 of the SBCA Certificate Policy and Certification Practice Statement ('CP/CPS') applies, furthermore the terms of use and provisions described in the present document are deemed accepted by the organization to which the certificate is issued ("O=") when first used.

Regarding publication of the certificate, clause 2.2 of the SBCA CP/CPS applies.

All certificate owners shall comply with the following requirements:

- (1) protect their private key against unauthorized use;
- (2) refrain from transferring or revealing their private key to third parties, even as representatives.
- (3) refrain from continued use of the private key following expiry of the validity period or revocation of the certificate, other than to view encrypted data (e.g., decrypting e-mails).
- (4) the certificate owner is responsible for copying or forwarding the key to the end entity or entities.
- (5) the certificate owner must obligate the end entity/all end entities to comply with the present terms and conditions, including the SBCA CP/CPS, when dealing with the private key.

⁹ Identified by the "O=" attribute value in the Subject Distinguished Name of the issued certificate

¹⁰ The latest version of the **Deutsche Telekom Security GmbHT-Systems** SBCA CP/CPS is available from <https://www.telesec.de/en/sbca-en/support/download-area/>.

(6) The certificate owner must provide the identification of those authorised representatives who are authorized to request revocation of certificates issued to the organisation with the details of events that lead to revocation and the revocation password.

(7) for certificates associated to groups of persons and functions and/or legal persons, after a person leaves the group of end entities (e.g. termination of the employment relationship), the certificate owner must prevent misuse of the private key by revoking the certificate.

(8) The certificate owner is responsible and shall request revocation of the certificate under the circumstances referred to in clause 4.9.1 of the SBCA CP/CPS.

- Regarding renewal or rekey of certificates, clause 4.6 or 4.7 of the SBCA CP/CPS applies.

- Regarding amendment of certificate, clause 4.8 of the SBCA CP/CPS applies.

- Regarding certificate revocation, clause 4.9 of the SBCA CP/CPS applies.

5. Contact persons and trusted couriers identification form (ERCA ID Form - sample)

I, ~~[name and address of the organisation representative]~~, certifies that the following information are to be used in the context of the request, generation and retrieval of public key digital certificates for TACHOnet access points supporting the confidentiality, integrity and non-repudiation of the TACHOnet messages:

Contact person information:

— Contact person #1	— Contact person #2
— Name:	— Name:
— First names:	— First names:
— Mobile phone:	— Mobile phone:
— Telephone:	— Telephone:
— Email:	— Email:
— Specimen handwritten signature: —	— Specimen handwritten signature: — — —

Trusted courier information:

— Trusted courier #1	— Trusted courier #2
— Name:	— Name:
— First names:	— First names:
— Mobile phone:	— Mobile phone:
— Email:	— Email:
— Passport issuing country:	— Passport issuing country:
— Passport number:	— Passport number:
— Passport validity end date:	— Passport validity end date:

The Competent Ministry of the AETR Contracting Party:

In the person of:

* hereby certifies that this application form for the submission of the Contracting Party Authority Policy by its Contracting Party Authority is authentic, and the enclosures hereto are duly legitimate;

* hereby clarifies that the appointed and approved Contracting Party Authority will perform its activities within the scope of either

Appendix 1B of the AETR and the ‘Digital Tachograph System European Root Policy’ (i.e. ERCA-policy),

and/or

its Appendix 1C and the ‘Smart Tachograph - European Root Certificate Policy and Symmetric Key Infrastructure Policy’ (i.e. ERCA Generation2 -policy),

and/or

its Appendix 4 and the 'TeleSec Shared-Business-CA Certificate Policy (CP) and Certification Practice Statement (CPS)' (i.e. ~~TACHOnet~~ PKI-policy for the system of electronic exchange of information on driver cards).

1. **Identification of the Contracting Party Authority¹¹**

- a. official name of organisational entity:
- b. address of organisational entity:
- c. name of the duly appointed representative of the organisational entity:
- d. contact person (if different from c.¹²):
- e. email address:
- f. mail address:
- g. phone(s) and/or fax number:

2. **Identification of the Trusted Courier (person delivering ERCA certificate/security keys requests and/or ~~TACHOnet~~ certificate requests for the system of electronic exchange of information on driver cards and collecting security keys from the ERCA¹³):**

- a. name:
- b. mail address:
- c. phone and/or fax number:

3. **Agreement and Signature**

I hereby confirm my acceptance thereof by signing this application form, having read either
Appendix 1B to the AETR and the ERCA policy,
 and/or
Appendix 1C to the AETR and the ERCA Generation2 –policy,
 and/or

¹¹ Please NOTE that changes in data have to be communicated directly to the ERCA.

¹² ENCLOSE letter of mandate of person under 1.c. to person under 1.d. including copy of entrance pass of person under d., to building of organisation that is identified as the MSA.

¹³ ENCLOSE letter of assignment of person under 1.d. to person under 2, and copy of ID-document; these data will be incorporated in files held by the ERCA.

Appendix 4 to the AETR and the ~~TACHOnet~~ PKI-policy for the system of electronic exchange of information on driver cards.

I likewise acknowledge that the ERCA shall annul applications, should there be any indication that:

- the forms or their enclosures were issued on the basis of inaccurate or false information;
- the information is out of date;

I hereby confirm that the information given in this application form and appended hereto, provided to the ERCA is true, accurate and complete.

The processing of the data provided in this form is covered by a declaration of confidentiality on the protection of personal data. This declaration can be found on Europa's internet site at this address: <https://ec.europa.eu/dpo-register/detail/DPR-EC-00406>. Please consult this declaration before filling in and sending the form.

Place, date, company stamp or seal of the Organisation:

Signature of the authorised representative:

– 6. Documents

– 6.1. Individual Power of Attorney (sample)

– A sample of the individual Power of Attorney that must be signed and presented by the trusted courier during face-to-face registration at ~~RAO~~ the Request Validation Body can be found here:

*Please print the text of this document on your letterhead, add your company stamp and have it signed by the administrative contact or admin-c of the domain.
The power of attorney must be signed by an authorized representative of the organization (principal).*

The Shared-Business-CA customer will then submit this document together with the order document to the T-Systems International GmbH Trust Center.

Individual power of attorney / Power of attorney granted to one person

I, *[name and address of the end-user]*, empower as an authorized person of this organization *

[name of the company receiving the certificate]

(e. g. sample company, sample authority, to be registered in the O-field of the certificate *)

following company and/or person:

Company: **European Commission**

Address: **DG DIGIT, 28 rue Belliard, 1000 Brussels**

Represented by Mr/Mrs/Ms: **Adrien FÉRIAL**

On my behalf, by complying with all and any regulations and formalities (particularly Certificate Policy (CP) / Certification Practice Statement (CPS)), for authorisation to manage (i.e. issue, revoke, renew) X.509v3-certificates, including the complete key-material, issued by the certification authority „TeleSec Shared-Business-CA“, in respect of the domain as above mentioned.

This power of attorney relates to issuing and management of the following certificate types (the applicable type has to be marked):

☒ user¹: e.g. mail security (signature, encryption), virtual private network (VPN), TLS/SSL client

☐ server²: e.g. identity of web server, TLS/SSL client server authentication

Please enter additionally the country, organization, locality, state or province name of the server:

☐ eMail-Gateway³: e.g. identity of eMail gateways / eMail-Appliance, virtual mail-administrating centre.

Validity

☒ The power of attorney is valid until further notice, but up to a **maximum of 27 months²** or **maximum of 36 months^{1,3}** from date of issuance.

☐ The power of attorney is valid until _____ (mm.dd.yyyy), but up to a **maximum of 27 month²** months or **maximum of 36 months^{1,3}** from date of issuance.

Please note that a time limit on the power of attorney can cause that a request for certificate order, renewal or revocation may not be possible because the validity period of the authorization has been exceeded!

Place, date, company stamp or seal of the organisation (principal)

Signature of the authorized representative

- 6.2. Certificate request paper form (sample)
 - A sample of the certificate request paper form that must be signed and presented by the trusted courier during face-to-face registration at ~~RAO~~ **the Request Validation Body** can be found here:

Please print the text of this document on your letterhead, add your organisation stamp and have it signed by an authorised representative of your organisation.

Please reproduce the certificate data information provided by CEF Support Team acknowledging the completeness of the electronic certificate request, e.g.:

Certificate data	
Country (C)	BE
Organization/company (O)	European Commission
Master domain (OU1)	CEF_eDelivery.europa.eu
Area of responsibility (OU2)	CEF_TACHOnet
Department (OU3)	AP_PROD-GTC_OID-1.3.130.0.2018.xxxxxxx
First name (CN)	
Last name (CN)	GRP:CEF_TACHOnet_AP_PROD_BE_001
E-mail	CEF-EDELIVERY-SUPPORT@ec.europa.eu

insert reference number (e.g. 776002)

please fill in

Trusted courier #1
Name:
First names:
Mobile phone:
Email:
Passport issuing country:
Passport number:
Passport validity end date:

7. Glossary

- The key terms used in this Sub-appendix are defined in the CEF Definitions section on the CEF Digital Single Web Portal:

- <https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/CEF+Definitions>

- The key acronyms used in this Component Offering Description are defined in the CEF Glossary on the CEF Digital Single Web Portal:

- <https://ec.europa.eu/cefdigital/wiki/pages/viewpages.action?spaceKey=CEFDIGITAL&title=CEF+Glossary>

7.2. The services specified in Sub-appendix 4.1, provided by the central hub, are free of charge.

8. Subcontracting

8.1. The parties may subcontract any of the services for which they are responsible under this Appendix.

8.2. Such subcontracting does not relieve the party from the responsibility pursuant to this Appendix, including the responsibility for the appropriate level of service in accordance with Sub-appendix 4.6.
