Estonian National CA Policy for the Digital Tachograph System

Eesti Riiklik Autoregistrikeskus (ARK)Estonian Motor Vehicle Registration Centre





Version

	I	I	I
Draft	03.01.2005	Template file initiated by ARK	
Version 0.1			
Draft	07.01.2005	Editorial remarks and comments	Jüri Voore
Version 0.2			Tarmo Milva
			SK
Draft	15.01.2005	Amendments of ver.0.3 approved	ARK
Version 0.3			
Draft	03.02.2005	Corrections :	Jüri Voore
Version 0.4		Numeration of cross-references changed	Tarmo Milva
		Comparison table 19 added	SK
Draft	18.02.2005	Draft version 1.0 for approval and	Jüri Voore
Version 0.4		translation formatted	SK
Draft	24.03.2005	Changes to the text according Review	ARK
Version 0.5		Findings letter G07-	SK
		TRVA/JB7jb/(2005)D76468 of 15.03.2005	
Approved	06.04.2005	Approved by Digital Tachograph Root	
version 1.0		Certification Authority on the 06.04.2005	
		,	



Table of Contents

1	Introduction	6
	1.1 Responsible organization	6
	<u>1.2</u> Approval	7
	1.3 Availability and contact details	7
2	Glossary/Definitions and abbreviations	7
	2.1 Glossary/Definitions	7
	2.2 <u>List of abbreviations</u>	
<u>3</u>	Scope and applicability	
<u>3</u>	General provisions	
	4.1 Obligations	
	4.1.1 MSA obligations	
	4.1.2 MSCA obligations	
	4.1.3 CIA obligations	
	4.1.4 CSP obligations	
	4.1.5 CPO obligations	
	4.1.6 RA obligations	12
	4.1.7 Service Agency obligations	
	4.1.8 Cardholder obligations	12
	4.1.9 VU manufacturers' obligations (role as personalization	
	organization)	13
	4.1.10 Motion Sensor manufacturers' obligations (role as	
	personalization organization)	
<u>5</u>		
	 5.1 MSCA, CPO and RA liability towards the MSA and the CIA 5.2 MSA and CIA liability towards end users and related parties 5.3 Corresponding legislation 	
	5.2 MSA and CIA liability towards end users and related parties	
	5.3 Corresponding legislation	
<u>6</u>		
	6.1 Governing law	
<u>7</u>	Confidentiality	
	 7.1 Types of information to be kept confidential Types of information not considered confidential 	
8		
9	Equipment management	
10		
	10.1 Quality control – MSA/CP function	1/
	10.2 Application for card – handled by the CIA	1/
	10.2.1 User application	
	10.2.2 Agreement	
	10.2.3 CIA terms of approval - Driver card specific	
	10.2.4 CIA terms of approval – Workshop card specific	
	10.2.5 CIA terms of approval – Control card specific	
	10.2.6 CIA terms of approval – Company card specific	19
	10.3 Validity period of cards 10.4 Card renewal – handled by the CIA	
	10.4 Card renewal – nandled by the CIA	∠∪



<u>10.5</u> Ca	<u>ird update or exchange – handled by the CIA</u>	.20
	placement of lost, stolen, damaged and malfunctioning cards -	
handled b	by the CIA	.20
10.7 Ap	plication approval registration - handled by the CIA	.21
	rd personalization – handled by the CPO	
10.8.1	Visual personalization	.21
10.8.2	User data entry	
10.8.3	Key entry	
10.8.4	Certificate entry	.21
10.8.5	Quality Control	
10.8.6	Cancellation (destruction) of non-distributed cards	
10.8.7	Card registration and data storage (DB) – handled by the CPG	
		.22
	rd distribution to the user – handled by the CP and RA	.22
10.10	Authentication codes (PIN) – generated by the CP	.22
10.11	PIN generation	.22
10.12	PIN distribution	.23
	Card deactivation – handled by CIA	
	Vehicle Units and Motion Sensors	
	management: European Root key, Member State keys, Motion	
		.23
	RCA public key	
	ember State keys	
11.2.1	Member State keys generation	.24
11.2.2	Member State keys' period of validity	
11.2.3	Member State private key storage	
11.2.4	Member State private key backup	.25
11.2.5	Member State private key escrow	
11.2.6	Member State keys compromise	
11.2.7	Member State keys end of life	.26
	otion Sensor keys	.26
	y transports	
	oment keys (asymmetric)	.27
12.1 Ge	eneral aspects CP/MSCA incl. Service Agencies and VU	
manufact	urers	.27
12.2 Eq	uipment key generation	.28
12.2.1	Batch key generation	
12.2.2	Equipment key validity	
	Equipment private key protection and storage - Cards	
12.2.4	Equipment private key protection and storage – VU's	
12.2.5	Equipment private key escrow and archival	29
	Equipment public key archival	29
12.2.7		
	oment certificate management	
	ta input	
13.1.1	Tachograph cards	
13.1.2	Vehicle units	
10.1.2	vornoic utilità	.00

Digital Tachograph System



13.2 Tachograph card certificates	30
13.2.1 Driver certificates	
13.2.2 Workshop certificates	30
13.2.3 Control body certificates	30
13.2.4 Hauling company certificates	30
13.3 Vehicle unit certificates	
13.4 Equipment certificate time of validity	31
13.5 Equipment certificate issuing	31
13.6 Equipment certificate renewal and update	
13.7 <u>Dissemination of equipment certificates and information</u>	31
13.8 Equipment certificate use	
13.9 Equipment certificate revocation	31
MSCA, CIA, CPO, CP, CSP and RA Information Security manager	<u>ment</u>
31	
15 MSCA or CIA Termination	
15.1 Final termination - MSA responsibility	
15.2 Transfer of CSP or CPO responsibility	
<u>16</u> <u>Audit</u>	
16.1 Frequency of entity compliance audit	
16.2 Topics covered by audit	
16.3 Who should do the audit	
16.4 Actions taken as a result of deficiency	33
16.5 Communication of results	
National CA policy change procedures	
17.1 <u>Items that may change without notification</u>	34
17.2 Changes with notification	
<u>17.2.1</u> <u>Notice</u>	
17.2.2 Comment period	
17.2.3 Whom to inform	
17.2.4 Period for final change notice	
17.3 Changes requiring a new National CA policy approval	
18 References	
Correspondence table with the ERCA Policy	36



1 Introduction

This document is the National CA policy for the Estonian Digital Tachograph System.

This National CA policy is in accordance with

- Council Regulation of the Tachograph System, 2135/98
- Commission Regulation 1360/2002
- " Guideline and Template National CA policy "
- "Common Security Guidelines"

Abbreviations used in this document are specified in chapter 2.2.

1.1 Responsible organization

The responsible body for this National CA policy is the Member State Authority, MSA, Estonian Motor Vehicle Registration Centre (Eesti Riiklik Autoregistrikeskus, ARK), which will also have the role of CIA.

MSA shall appoint AS Sertifitseerimiskeskus by contract to act in a role of MSCA and CSP

AS Sertifitseerimiskeskus operates assets related to the digital tachograph system at following address:

AS Sertifitseerimiskeskus

Pärnu mnt. 12

10148 Tallinn

Estonia.

MSCA and CIA may subcontract parts of processes to subcontractors (Service Agencies). The use of Service Agencies in no way diminishes the MSA's overall responsibilities for these processes.

Customer service (RA) of the Estonian Motor Vehicle Registration Centre is provided by the regional bureaus all over Estonia.

The RA service is specified in the Practice Statement (PS).

The appointed Service Agency for CSP is AS Sertifitseerimiskeskus as specified in the Practice Statement (PS).

The functions of Card Personalising Organization (CPO) are performed by:

Trüb Baltic AS

Liivalaia 8

10118 Tallinn

Estonia



as specified in the CPO Practice Statement (PS).

1.2 Approval

This National CA policy is approved by:

Digital Tachograph Root Certification Authority Traceability and Vulnerability Assessment Unit European Commission Joint Research Centre, Ispra Establishment (TP.360) Via E. Fermi, 1 I-21020 Ispra (VA) Italy on the 6th April 2005.

1.3 Availability and contact details

The National CA policy is publicly available at http://www.ark.ee

Questions concerning this National CA policy should be addressed to:

Eesti Riiklik Autoregistrikeskus Mäepealse 19 12618 Tallinn Estonia

Contact details for this National CA policy

Name of this document: Estonian National CA Policy for the Digital

Tachograph system

Identity of this document: EstNCAPolicy.pdf

2 Glossary/Definitions and abbreviations

2.1 Glossary/Definitions

CA Policy: A named set of rules that indicates the applicability of keys, certificates and equipment to a particular community and/or class of application with common security requirements.

Card/Tachograph cards: Integrated Circuit equipped card, in this policy this is equivalent to the use of the terms "**IC-Card**" and "**Smart Card**".

Card holder: A person or an organization that is a holder and user of a Tachograph card. Included are drivers, company representatives, workshop workers and control body staff.

Certificate: In a general context a certificate is a message structure involving a binding signature by the issuer verifying that the information within the



certificate is correct and that the holder of the certified public key can prove possession of the associated private key.

Certification Authority System (CAS): A computer system in which certificates are issued by signing certificate (user) data with the CA private signing key.

Certification Practice Statement (CPS): A statement of the practices that a certification authority employs in issuing certificates and is connected to the actual CA policy. The CPS is in this National CA policy replaced by a Practice Statement, because it has a broader view and connects to keys, certificates and equipment.

Equipment: In the Tachograph system the following equipment exists: Tachograph cards, VU (vehicle units) and Motion Sensors.

Manufacturer/**Equipment manufacturer**: Manufacturers of Tachograph equipment. In this policy, most often used for VU and Motion Sensor manufacturers, since these have distinct roles in the System.

Motion Sensor key: A symmetric key used for the Motion Sensor and VU to ensure the mutual recognition.

Practice Statement (PS). A statement of the security practices employed in the Tachograph processes. A PS is comparable to the standard PKI document CPS.

Private key: The private part of an asymmetric key pair used for public key encryption techniques. The private key is typically used for signing digital signatures or decrypting messages. Also called Secret key.

Public key: The public part of an asymmetric key pair used for public key encryption techniques. The public key is typically used for verifying digital signatures or to encrypt messages to the owner of the private key.

RSA keys: RSA (Rivest, Shamir, Adelmann) is the cryptographic algorithm used for asymmetric (PKI) keys in the Tachograph system.

Service Agency: An entity that undertakes to tasks on behalf of an MSCA or CPO, a subcontractor.

Tachograph cards/Cards: Four different type of smart cards for use in the Tachograph system: Driver card, Company card, Workshop card, Control card.

User: Users are equipment users and are either **Card Holders** for card or **manufacturers** for Vehicle units/Motion Sensors. All users shall be uniquely identifiable entities.

In this document:

Signed: Where this policy requires a signature, the requirement is met by a secure and verifiable digital signature.

Written: Where this policy requires information to be in writing, that requirement is met by a data message if the information contained therein is accessible so as to be usable for the parties concerned.

2.2 List of abbreviations



CA Certification Authority

CAS Certification Authority System

CIA Card Issuing Authority
CC Common Criteria

CP Card Personalisation service
CPO Card personalising organization
CPS Certification Practice Statement
CSP Certificate Service Provider

DB Database

ERCA European Root CA

HSM Hardware Security Module

ISSO Information System Security Officer

ITSEC Information Technology Security Evaluation Criteria

KG Key Generation

MS Member State of Tachograph System

MSA Member State Authority
MSCA Member State CA

PIN Personal Identification Number

PKI Public Key Infrastructure
PS Practice Statement
RA Registration Authority

RSA A specific Public key algorithm

SA System Administrator

VU Vehicle Unit

VUP VU personalizing organization

3 Scope and applicability

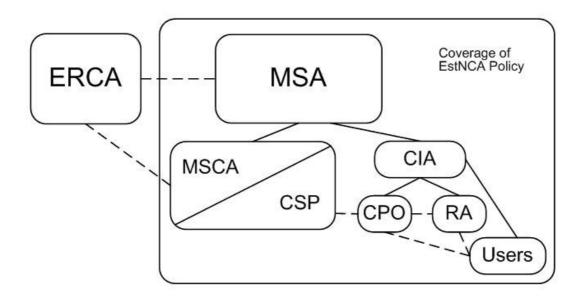
This National CA policy is valid for the Digital Tachograph System only.

The cards and certificates issued by the MSCA are only for use within the Digital Tachograph system.

4 General provisions

This section contains provisions relating to the respective obligations of MSA, CIA, RA, MSCA, CSP, CPO, CP, Service Agencies and users.





Hierarchy, relations and dataflow in National Tachograph system

Abbreviations and symbols used in picture:

ERCA	European Root CA
MSA	Member State Authority
MSCA	Member State CA
CSP	Certificate Service Provider
CIA	Card Issuing Authority
CPO	Card Personalising Organization
CP	Card Personalisation service
RA	Registration Authority of CIA
	Responsibility hierarchy
	Data, information or card flow

4.1 Obligations

This section contains provisions relating to the respective obligations of:

- MSA
- MSCA
- CIA
- CSP
- RA
- CPO
- Users (Cardholders)
- Service Agencies



4.1.1 MSA obligations

With regard to this NCA policy, the MSA has the following obligations.

The MSA shall:

- a) Maintain the National CA policy
- b) Appoint an MSCA and CIA;
- c) Audit the CSP, CPO and RA;
- d) Approve the MSCA, CSP, CPO, CP and RA Practice Statements;
- e) Inform the appointed parties and Service Agencies about this policy;
- f) Let this policy be approved by the ERCA.

4.1.2 MSCA obligations

The MSCA shall:

- a) Follow this National CA policy;
- Publish a MSCA Practice Statement (MSCA PS) that includes a reference to this National CA policy, to be approved by the MSA;
- c) Oversee that ERCA Root Policy requirements will be implemented in MSCA certification requests;
- d) Maintain sufficient organizational and financial resources to operate in conformity with the requirements laid down in this National CA policy, in particular to bear the risk of liability damages as stated in chapter 5.

The MSCA shall ensure that all requirements for the MSCA, as detailed in this policy, are implemented.

The MSCA has the responsibility for conformance with the procedures prescribed in this policy, even when the MSCA's technical functionality is undertaken by a subcontractor, Service Agency (CSP). The MSCA is responsible for ensuring that the Service Agency provides all its services consistent with its Practice Statement (PS) and the National CA policy.

4.1.3 CIA obligations

The CIA shall:

- a) Ensure that correct and relevant user information from the application process is passed to the CPO;
- b) inform the users of the requirements in this policy related to the use of the system;
- c) Maintain sufficient organizational and financial resources to operate in conformity with the requirements laid down in this National CA policy, in particular to bear the risk of liability damages damages as stated in chapter 5



4.1.4 CSP obligations

The CSP shall:

- Ensure that correct certificates are passed to the CP;
- Maintain confidentiality of MSCA private key;
- Follow this National CA policy;
- Publish a CSP Practice Statement (CSP PS) that includes reference to this National CA policy, to be approved by the MSA.

4.1.5 CPO obligations

The appointed CPO shall:

- Follow this National CA policy
- Publish a CPO Practice Statement (CPO PS) that includes reference to this National CA policy, to be approved by the MSA
- Ensure that all requirements on it, as detailed in this policy, are implemented.

The CPO has the responsibility for conformance with the procedures prescribed in this policy.

4.1.6 RA obligations

The appointed RA shall:

- a) Ensure that correct and relevant user information from the application process is passed to the CIA and CPO
- b) inform the **users** of the requirements in this policy related to the use of the Tachograph system.

4.1.7 Service Agency obligations

Service Agencies, when used to operate services covered by this policy, have obligations towards the MSA according to contractual agreements. Despite of such agreements, MSA retains full responsibility for any Tachograph services, covered in this document.

4.1.8 Cardholder obligations

The CIA shall oblige, through agreement (see 10.2.2), the user (or user's organization) to fulfil the following obligations:

4.1.8.1 All card types

- a) accurate and complete information is submitted to the RA and CIA in accordance with the requirements of this policy, particularly with regards to registration;
- b) keys and certificates are used only in the Tachograph system;



- c) card is used only in the Tachograph system;
- d) reasonable care is exercised to avoid unauthorized use of the equipment private key and card;
- e) user may only under very special and duly justified circumstances have more than one of any cards or combination of cards;
- f) user shall not use a damaged or expired card;
- g) user shall not tamper or attempt to modify cards in any way;
- h) user shall notify the CIA without any reasonable delay if any of the following occurs up to the end of the validity period indicated in the certificate:
- equipment private key or card has been lost, stolen or potentially compromised; or
- certificate content is or becomes inaccurate.

4.1.8.2 Driver card

- a) user may have only one valid driver card;
- b) user may only use his/her own keys, certificate and card;

4.1.8.3 Workshop card

- a) user must protect his/her PIN-code
- b) card should not leave the premises of workshop unless required by installation, calibration and repair operations

4.1.9 VU manufacturers' obligations (role as personalization organization)

Not applicable in Estonia for the time being .

4.1.10 Motion Sensor manufacturers' obligations (role as personalization organization)

Not applicable in Estonia for the time being or in the foreseeable future.

5 Liability

5.1 MSCA, CPO and RA liability towards the MSA and the CIA

The MSCA, CPO and RA bear the responsibility for proper execution of their tasks, even if some or all of the tasks are outsourced to Service Agencies. If the MSCA or CPO intend to subcontract to other parties, they shall inform beforehand of such intentions and provide the MSA with all the extra resources necessary for the MSA to meet it's obligations. RA is not allowed to subcontract its services.

The MSCA, CPO or RA is liable for damages resulting from failures to fulfill these obligations only if it has acted negligently. If the organization has acted



according to this National CA policy and the corresponding PS, it shall not be considered to have been negligent.

The MSCA, CPO or RA does not carry any liability towards end users, only towards the MSA and CIA.

Any liability issues towards end users are the responsibility of the MSA or CIA.

5.2 MSA and CIA liability towards end users and related parties

The MSA is liable for correct implementation of Regulation (EEC) no. 3821/85, as amended by Regulation (EC) no. 2135/98 and its Annex IB. This means particularly that the MSA is liable for ensuring that:

- a) certificate is created in accordance with the provisions of the Regulation and this CA Policy;
- b) certificate contains all the information required for the Tachograph certificate at the time of issuance and in particular, that data of the cardholder corresponds the information in the application.

The CIA is liable for verifying that in the certificate the data of the cardholder corresponds the information in the application.

The MSA or the CIA is not liable for damages towards end users and related parties caused by:

- false or incomplete information given by the applicant unless the MSA or the CIA is proven to have been negligent;
- 2) use of the certificate, either in or out of the scope of the Regulation;
- 3) revealing of PIN code unless it is directly caused by acts of the MSA or the CIA;
- 4) malfunctioning of the VU, telecommunications or similar which hinders the use of certificate within the Tachograph system.

The MSA or the CIA is never liable for indirect financial loss or other indirect damages towards end users, related parties or their contracting parties.

In addition, Tachograph cards, keys and certificates are only for use within the Tachograph system. Any other certificates present on Tachograph cards are in violation of this policy, and hence neither the MSA nor the CIA carries any liability in respect to any such violation.

5.3 Corresponding legislation

Liability of damages shall be decided in accordance with Estonian Law of Obligations Act.



6 Interpretation and enforcement

6.1 Governing law

Provisions of this Certicicate Policy shall be interpreted according to Estonian law.

7 Confidentiality

Confidentiality is restricted according to *Directive 95/46/EC*; *Databases Act*, *Personal Data Protection Act* and *Foundation of National Traffic Register and statutes for maintenance of a register* on the protection of individuals with regard to processing of personal data and movement of such data.

7.1 Types of information to be kept confidential

Any personal or corporate information held by the MSCA, CPO, CIA or Service Agencies that is not appearing on issued cards or certificates is considered confidential, and shall not be released without prior consent of the user, nor (where applicable) without prior consent of the user's employer or representative, unless required otherwise by law.

All private and secret keys used and handled within the MSCA or CP operation under this National CA policy are to be kept confidential.

Audit logs and records shall not be made available as a whole, except as required by law.

7.2 Types of information not considered confidential

Identification information or other personal or corporate information appearing on cards and in certificates is not considered to be confidential, unless statutes or special agreements so dictate.

8 Practice Statement (PS)

The MSCA, CIA, CSP, CPO, CP and RA shall have statements of the practices and procedures used to address all the requirements identified in this National CA policy, Practice Statements (PS). The MSA shall approve the PSs.

In particular:

- The PS shall identify the obligations of all the external organizations supporting the MSCA and CIA services including the applicable policies and practices.
- b) The Practice statement shall be made available to the MSA, to users of the Tachograph system, and to related parties (e.g. control bodies);
 - However, the MSCA/CIA is not generally required to make all the details of its practices public and available for the users;



- c) The management of the MSCA/CIA has responsibility for ensuring that the PS is properly implemented;
- d) The MSCA/CIA shall define a review process for the PS;
- e) The MSCA, CIA, CSP, CPO, CP and RA shall give due notice of changes it intends to make in its PS and shall, following approval, make the revised PS immediately available.

9 Equipment management

The equipment in the Tachograph system is defined as:

- Tachograph cards
- Vehicle units
- Motion Sensors

Due to the fact that Vehicle units or Motion Sensors are not manufactured in Estonia, this section of Policy covers only Tachograph cards.

The equipment is handled and managed by several roles:

- CIA (cancellation of cards, maintenance of a register;
- RA (to accept an application, verification of submitted data, registration of data, card registration, renewal, issuing the card etc.);
- MSCA (Motion Sensor keys);
- CPO (order processing);
- CP (visual and electronic personalization, keys);
- CSP (certificates).

The following functions are carried out by the MSA:

- Quality control (type approval). The actual work will be carried out by Service Agency appointed to role of CP;
- PS approvals.

The following functions are carried out by the CIA:

- Applications for cards;
- Application approval registration;
- Data storage (DB) and status info for registered cards;
- Provision of personalisation data to CPO;
- Exchange of information with other Member States;
- Handling of lost and found cards.

The following functions are carried out by the MSCA:

- Generation of MSCA keys for Estonia and managing interface with ERCA certification process.

The following functions are carried out by the CSP:

- Generation of certificates for cards upon requests from CP;
- Storing the issued certificates in DB;



- Maintaining the security of the MSCA keys.

The following functions are carried out by the CP:

- Quality control (test card samples);
- Maintaining the security of Motion Sensor key;
- Sending certificate requests to CSP;
- Key and certificate insertion;
- Personalization of cards;
- Card delivery to the appointed delivery agency;
- Distribution of cards and PIN's for workshop cards to the appointed delivery agency.

The following functions are carried out by the RA:

- User registration;
- Card delivery to users;
- Capability to Card functionality verification;

10 Tachograph cards

10.1 Quality control – MSA/CP function

The MSA/CP shall ensure that only type approved cards, according to the Regulation, are personalized.

10.2 Application for card – handled by the CIA

The CIA shall inform the user of the terms and conditions regarding use of the card. This information shall be available in Estonian and English.

The user shall, by applying for a card, and accepting delivery of the card, accept the terms and conditions.

10.2.1 User application

Applicants for a Tachograph card shall submit an application in a form to be determined by the CIA. As a minimum, the application shall include the data needed to ensure the correct identification of the user. For company, workshop and control cards, the necessary identity of the legal organization for which card is applied, shall be included.

The following information is required for issuing a card. Unless gathered from other sources, it should be included in the application:

- Full name;
- Place of residence;
- Postal address
- E-mail address;



Driver card specific:

- Driving license number;
- Date and place of birth;
- Photo and signature;
- Personal Identification Code (National registration number);
- Previous / current driver card number if any;
- Issuer of previous / current driver card.

Workshop card specific:

Workshop cards shall be issued only by physical persons associated with legal persons, and who can provide the following evidence:

- full name and legal status of the associated legal person or other organizational entity;
- optional full name (including surname, given names and national registration number) of the cardholder;
- Photo and signature of the cardholder

Control card specific:

Control cards shall be issued only to physical persons associated with legal persons, and who can provide the following evidence:

- full name and legal status of the associated legal person or other organizational entity;
- optional full name (including surname, given names and national registration number) of the cardholder, minimum is unit identification;
- Photo and signature of the cardholder

Company card specific:

Hauling company certificates shall be issued to individual representatives of companies owning or holding vehicles fitted with Digital Tachograph and who can provide evidence of:

- full name and legal status of the associated legal person or other organizational entity;
- any relevant existing registration information (e.g. company registration) of the associated legal person or other organizational entity;



- the user's association with the legal person or other organizational entity;
- optional full name (including surname, given names and national registration number) of the cardholder;
- Photo and signature of the cardholder

10.2.2 Agreement

The applicant shall, by making an application for a card and accepting delivery of the card, make an agreement with the MSA (or CIA), stating as a minimum the following:

- the user agrees to the terms and conditions regarding use and handling of the Tachograph card;
- the user agrees to, and certifies, that from the time of card acceptance and throughout the operational period of the card, until CIA is notified otherwise by the user:
 - user will not allow unauthorized person to have access to the user's card;
 - all information given by the user to the CIA relevant for the information in the card is true;
 - the card is being conscientiously used in consistence with usage restrictions for the card.

10.2.3 CIA terms of approval - Driver card specific

A Driver card shall only be issued to individuals having permanent residence in the country of application.

The CIA shall ensure that the applicant does not have a valid Driver card issued in Estonia or in another Member State.

The CIA shall ensure that the applicant for a Driver card has a valid driving license of appropriate class.

10.2.4 CIA terms of approval – Workshop card specific

Workshop card shall only be issued to a workshop having valid workshop permit for Digital Tachograph.

10.2.5 CIA terms of approval – Control card specific

Control card shall only be issued to a party is nominated as an official control body.

10.2.6 CIA terms of approval – Company card specific

Company card shall only be issued to a hauling company.



10.3 Validity period of cards

Workshop cards shall be valid for no more than **one** year from issuance.

Driver cards shall be valid no more than **five** years from issuance.

Company cards shall be valid no more than **five** years from issuance.

Control cards shall be valid no more than **five** years from issuance.

The CIA shall establish routines to remind the user of a pending expiration.

An application for renewal shall follow the procedures described in section 10.2

10.4 Card renewal – handled by the CIA

The user shall apply for a renewal card at least **15** days prior to card expiration.

If the user complies with the above rule, the CIA shall issue a new card before the current card expires.

10.5 Card update or exchange – handled by the CIA

A user who changes country of residence may request to have his/her driver card exchanged. If the current card is valid, the user shall only provide proof of Estonian-residence in order to have the application granted.

The RA shall upon delivery of the new card take possession of the previous card and send it to the CIA of origin.

Card exchange due to changed country of residence shall otherwise follow the rules for new card issuing (section 10.2).

10.6 Replacement of lost, stolen, damaged and malfunctioning cards – handled by the CIA

If a card is lost or stolen, the user shall report this to CIA. Loss of card may be reported to CIA by the user or by the Police upon receiving a found card.

Stolen and lost card shall be put on a blacklist available to authorities in all Member States.

Damaged and malfunctioning cards shall be delivered to the issuing CIA, by whom they shall be visually and electronically cancelled, and put on a blacklist

If the card is lost, stolen, damaged or malfunctioning, the user shall apply for a replacement card within **7** (seven) days.

Provided that the user follows the above requirements, the CIA shall issue a replacement card with new keys and certificate within 5 working days from receiving a complete application.



The replacement card shall inherit the time of validity from the original card. If the replaced card has less than three months remaining validity, the CIA may issue a renewal card instead of a replacement card.

10.7 Application approval registration – handled by the CIA

The CIA shall register the approved applications in a database. This data shall be made available for the CPO, which uses the information as input to the certificate generation and card personalization processes.

10.8 Card personalization – handled by the CPO

Cards are personalized both visually and electronically. Even if this process will be carried out by Service Agent (CP) this does not diminish the overall responsibility of the CPO.

10.8.1 Visual personalization

Cards shall be visually personalized according to Regulation Annex 1B, section IV [REG-A]. Specifically to note:

- A photograph of card holder must appear on all issued card types : Driver card, Control card, Workshop card, Company card

10.8.2 User data entry

Data shall be inserted in the card according to the structure in Regulation 1360/2002, Annex 1B, appendix 2 [REG-A], rules TCS_403, TCS_408, TCS_413 and TCS_418, depending on card type.

10.8.3 Key entry

The private key shall be inserted in the card without ever having left the key generation environment. This environment must guarantee that no person, in any way what so ever, can get control of the generated private key without detection. It is intended, where possible, that keys are generated on card or by HSM. See also equipment key management, section 12.2.

10.8.4 Certificate entry

The user certificate shall be inserted in the card before distribution to the user.

10.8.5 Quality Control

Documented routines shall exist to ensure that the visual information on users' cards and the electronic information in issued cards and certificates matches each other and also matches the validated owner. The routines shall be described in the CPO PS.



10.8.6 Cancellation (destruction) of non-distributed cards

All cards that are damaged or destroyed (or for other reasons are not finalized and distributed) during personalization shall be physically and electronically destroyed.

10.8.7 Card registration and data storage (DB) – handled by the CPO and the CIA

The CPO and CIA are responsible for keeping track of which card and card number is given to which user. Card number is assigned by CIA and will forward it to CPO. Data shall be transferred from the CPO to the CIA database.

10.9 Card distribution to the user – handled by the CP and RA

- a) Personalization shall be scheduled so as to minimize the time that the personalized card require safekeeping before delivery to the user. Storage over night requires secure safekeeping. Documented routines shall exist for exception handling, including disturbances in the production process, failure of delivery, and loss of or damage to cards.
- b) Personalized cards shall be immediately transferred to the place where they are to be delivered or distributed to the user, i.e. a controlled area.
- c) Personalized cards shall always be kept separated from nonpersonalized cards.
- d) Tachograph card shall be distributed in a manner so as to minimize the risk of loss.
- e) At the point of delivery of the card to the user, who has not been authenticated at the time of card application, evidence of the user's identity (e.g. name) shall be checked against a physical person.

10.10 Authentication codes (PIN) – generated by the CP

This section applies only to Workshop cards.

Workshop cards shall have a PIN code, used for authenticating the card to the Vehicle unit (Regulation Annex 1B, App 10 [REG-A]: Tachograph cards: 4.2.2)

PIN codes shall consist of at least **4** digits (Regulation Annex 1B, App 10 [REG-A]: Vehicle Units:4.1.2).

10.11 PIN generation

PIN codes shall be generated in a secure system, securely transferred to workshop cards, and direct-printed to PIN-envelopes. PIN codes shall never be stored on a computer system in a manner that allows connection between PIN and user. The PIN generation system shall meet the requirements of ITSEC E3, CC EAL4 or equivalent security criteria.



10.12 PIN distribution

PIN codes may be distributed by regular mail.

PIN codes shall not be distributed in connection with the corresponding cards.

10.13 Card deactivation – handled by CIA

It shall be possible to permanently deactivate a card and any keys residing thereon. A decision of deactivation shall be taken by the MSA or CIA, the actual operation should be carried out by the CIA or it's Service Agency.

Cards returned to CIA shall be deactivated.

Deactivation of cards shall take place in equipment suitable for the operation and it shall be verified that card functions and keys are destroyed. The card shall also be visually cancelled.

Deactivation of cards shall be registered in the card database and the card number shall be put on the blacklist.

10.14 Vehicle Units and Motion Sensors

Not applicable in Estonia for the time being, except case of damaged or defective vehicle units. Workshop shall if possible extract data from the Vehicle unit and deliver it to the hauling company. In case, where this can not be done, workshop shall write statement to the hauling company.

11 Key management: European Root key, Member State keys, Motion Sensor keys

This section contains provisions for the management of

- European Root key the ERCA public key;
- Member State keys, i.e. the Member State signing key pair(s);
- the Motion Sensor keys.

ERCA public key is used for verifying the Member State certificates. The ERCA secret key is not dealt with here, since it never leaves the ERCA.

Member State keys are the Member State signing keys and may also be called Member State root keys.

Motion Sensor keys are the symmetric keys to be placed in the workshop card, VU and Motion Sensor for mutual recognition. The MSCA receives the Motion Sensor keys from the ERCA, stores them and distributes them to CP

The **Transport keys** are RSA key pares to be used in secure transferf of Motion Sensor keys between ERCA and MSCA

If the MSCA has a need for other cryptographic keys than the above, these shall not be considered part of the Tachograph system, and is not dealt within this policy.



The Member State keys and transport keys are generated in certified HSM and stored in physically highly secured environment with 24/7 security control, electronic locks and video control system.

11.1 ERCA public key

The MSCA shall keep the ERCA public key (EUR.PK) in such a way as to maintain its integrity and availability at all times. If the EUR.PK is stored in the CSP, the same rule applies.

The CPO shall ensure that EUR.PK is inserted in all Tachograph cards and vehicle units.

11.2 Member State keys

The Member State keys are the MSCA signing key pair(s), which is used to sign all equipment certificates.

The key pair consists of a public key (MS.PK) and a private, or secret, key (MS.SK).

The MSCA public key is certified by the ERCA, but is always generated by the MSCA itself.

The Member State keys must not be used for any other purposes than signing

- a) signing the Tachograph card certificates
- b) signing the ERCA key certification request, KCR, as describer in Annex A [ERCA]

11.2.1 Member State keys generation

Member State key pair generation shall be carried out within a HSM, which either:

- meets the requirements identified in FIPS 140-2 (or 140-1) level 3 or higher [FIPS]; or
- meets the requirements identified in CEN Workshop Agreement 14167-2 [CEN]; or
- is a trustworthy system which is assured to EAL 4 or higher in accordance with ISO 15408 [CC], to E3 or higher in ITSEC, or equivalent security criteria. This shall be a security target or protection profile that meets the requirements of the current document, based on risk analysis and taking into account physical and other non-technical security measures.

The actual device used, and physical security requirements met shall be stated in the **CSP PS**.

MSCA key-pair generation shall require the active participation of at least three separate individuals, who have trusted roles within MSCA or CSP.



At least one of those individuals shall have role of CAA, who is responsible for MSCA operations.

Keys shall be generated using the algorithms with the key lengths in accordance with the EU Directive [REG] and its technical annex [REG-A] (1024 bit RSA).

MSCA shall have more than one Member State key pair with associated signing certificates to ensure continuity all the time.

11.2.2 Member State keys' period of validity

The Member State private key EST.SK usage period is **2** years from the date of issuance of the corresponding public key's certificate, and shall not be used after its validity period for any purpose.

Due to ERCA signing process for more than one Member State key pair, public key shall have no end of validity. Actual validity for Member State public key cerificates is defined and decided by ERCA Root Policy.

11.2.3 Member State private key storage

The private keys shall be contained in and operated from inside a specific tamper resistant device (HSM), which:

- meets the requirements identified in FIPS 140-2 (or 140-1) level 3 or higher [FIPS]; or
- is a trustworthy system which is assured to EAL 4 or higher in accordance with ISO 15408 [CC], to E3 or higher in ITSEC, or equivalent security criteria. This shall be to a security target or protection profile that meets the requirements of the current document, based on risk analysis and taking into account physical and other nontechnical security measures.

For access to the MSCA private signing keys, dual control is required. This means that no single person shall possess the means required to access the environment where the private key is stored. It does not mean that signing of equipment certificates must be performed under dual control.

11.2.4 Member State private key backup

The Member State private signing keys may be backed up, using a key recovery procedure requiring at least dual control. The procedure used shall be stated in the CSP PS. It is allowed to backup private signing keys in encrypted format, if decrypting requires HSM and at least dual control and requirements in section 11.2.3 is fulfilled. However, if MSCA has multiple key pairs according to section 11.2.1, no backup is really needed.

11.2.5 Member State private key escrow

The Member State private signing keys shall not be escrowed.



11.2.6 Member State keys compromise

A written instruction shall exist, included in the CSP PS, which states the measures to be taken by users and security responsible persons at the MSCA and/or Service Agencies (CSP), if the Member State private keys has become exposed, or is otherwise considered or suspected to be compromised.

In such case the MSCA shall as a minimum:

- Inform without delay the MSA, the ERCA and all other MSCAs.
- Will start disaster recovery actions independent of response delay from ERCA

11.2.7 Member State keys end of life

The MSCA shall have routines to ensure that it always has a valid, certified Member State signing key pair.

Upon termination of use of a Member State signing key pair, the public key shall be archived, and the private key shall be:

- destroyed such that the private key cannot be retrieved; or
- retained in a manner such that it is protected against being put back into use.

11.3 Motion Sensor keys

The MSCA shall, as needed, request motion sensor keys Km, Km_{VU} and Km_{WC} from the ERCA (Regulation Annex 1B [REG-A]:, app 11:3.1.3).

The MSCA shall only forward the workshop key Km_{WC} to the CP for insertion into Workshop cards.

The MSCA shall not handle with motion sensor master key Km or vehicle unit motion sensor key Km_{WC} and MSCA will ensure that they are not used for any purposes and that they will never leave the secure environment of MSCA.

The CP shall undertake the MSCA's task to ensure that the workshop key Km_{WC} is inserted into all issued Workshop cards (Regulation Annex 1B [REG-A]:, app 11:3.1.3).

The MSCA and/or CP shall, during storage, use and distribution, protect the motion sensor keys with high assurance physical and logical security controls. The keys should be contained in and operated from a specific tamper resistant device which:

- meets the requirements identified in FIPS 140-2 (or 140-1) level 3 or higher [FIPS]; or
- is a trustworthy system which is assured to EAL 4 or higher in accordance with ISO 15408 [CC], to E3 or higher in ITSEC, or equivalent security criteria. This shall be to a security target or protection profile that meets the requirements of the current document,



based on risk analysis and taking into account physical and other non-technical security measures.

11.4 Key transports

All key transport between MSCA and ERCA shall use means, media and protocols defined by ERCA Root Policy. If physical media is used for key transport, MSA will appoint the authorized person to carry the media.

MSCA key certification request shall use KCR protocol specified in the ERCA Root Policy annex A [ERCA]

MSCA shall accept the ERCA Public Key in distribution format described in the ERCA Root Policy annex B [ERCA]

MSCA shall ensure that KID and modulus of keys submitted to the ERCA for certification and for motion sensor key distribution are unique within the Domain of MSCA.

MSCA shall ensure that private keys will remain in HSM and will be not transported during key certification operations.

MSCA shall request Motion Sensor Key from the ERCA using KDR protocol specified in the ERCA Root Policy annex D [ERCA].

12 Equipment keys (asymmetric)

Equipment keys are asymmetric keys generated somewhere in the issuing/manufacturing process, and certified by the MSCA for the equipment in the Tachograph system:

- Tachograph cards;
- Vehicle Units (Not applicable for Estonia for the time being or or in the foreseeable future).

The symmetric Motion Sensor keys are not handled here.

12.1 General aspects CP/MSCA incl. Service Agencies and VU manufacturers

Equipment (Card) initialization, key loading and personalization shall be performed in a physically secure and controlled environment. Entry to this area shall be strictly regulated, controllable at the individual level, and requiring a minimum of two persons to be present to operate the system. A log shall be kept of all the entries and actions in the system.

No sensitive information contained in the key generation systems may leave the system in a way that violates this policy.

No sensitive information in the card personalization system may leave the system in a way that violates this policy.



Organizations (Subcontractors, Service Agencies) that perform key generation and card personalization on behalf of more than one Member State shall do this in a clearly separate process for each of these. A log shall be kept of each individual process and the relevant MSA shall have access to the log on request.

MSCA/CPO/Service Agencies/VU manufacturers: The log of the personalization system shall contain a reference to the order, and list the corresponding equipment numbers and certificates. The relevant MSA shall have access to the logs on request.

12.2 Equipment key generation

Keys may be generated either by the equipment manufacturer, by the CP or by the MSCA. (Annex 1B [REG-A], Appendix 11:3.1.1)

The entity that performs the key generation shall make sure that equipment keys are generated in a secure manner and that the equipment private key is kept secret.

Key generation shall be carried out within a device which either:

- meets the requirements identified in FIPS 140-2 (or 140-1) level 3 or higher [FIPS]; or
- meets the requirements identified in CEN Workshop Agreement 14167-2 [CEN]; or
- is a trustworthy system which is assured to EAL 4 or higher in accordance with ISO 15408 [CC], to E3 or higher in ITSEC, or equivalent security criteria. This shall be to a security target or protection profile that meets the requirements of the current document, based on risk analysis and taking into account physical and other nontechnical security measures.

Keys shall be generated using the RSA algorithm having a key length of modulus *n* 1024 bits. (Annex 1B [REG-A], Appendix 11:2.1/3.2)

The generation procedure and storage of the private key shall prevent it from being exposed outside of the system that created it. Furthermore, it shall be erased from the system immediately after having been inserted in the device.

It is the responsibility of CPO to undertake adequate measures to ensure that the public key is unique within its domain before certificate binding takes place. (This is presumably done by making sure that the key generation system is random at its nature and therefore the probability of generating non-unique keys is insignificant.)

12.2.1 Batch key generation

Cryptographic key generation may be performed by batch processing in advance of certificate request, or in direct connection with certificate request.



Batch processing must be performed in stand-alone equipment meeting the security requirements stated above. Key integrity have to be protected until certificate issuing is performed.

12.2.2 Equipment key validity

12.2.2.1 Keys on cards

Usage of an equipment private key in connection with certificates issued under this policy shall never exceed the end of validity of the certificate.

12.2.2.2 Vehicle units

Not applicable in Estonia for the time being or or in the foreseeable future.

12.2.3 Equipment private key protection and storage - Cards

The CP shall ensure that the card private key is protected by, and restricted to, a card that has been delivered to the user according to the procedures stated in this policy.

Copies of the private key are not to be kept anywhere except in the tachograph card, unless required during key generation and device personalization.

In no case may the card private key be exposed or stored outside the card.

12.2.4 Equipment private key protection and storage – VU's

Not applicable in Estonia for the time being or in the foreseeable future.

12.2.5 Equipment private key escrow and archival

Equipment private keys shall be neither escrowed nor archived.

12.2.6 Equipment public key archival

All certified public keys shall be archived by CSP on behalf of the certifying MSCA. Information about certified public keys can be stored by CP as well.

12.2.7 Equipment keys end of life

Upon termination of use of a Tachograph card, the public key shall be archived, and the private key shall be:

- destroyed such that the private key cannot be retrieved, if it is within ability of CIA to do so; or
- retained in a manner such that it is protected against being put back into use.

Upon termination of use of a Vehicle Unit, the public key shall be archived, and the private key shall be:



- destroyed such that the private key cannot be retrieved; or
- retained in a manner such that it is protected against being put back into use.

13 Equipment certificate management

This section describes the certificate life cycle, containing registration function, certificate issuing, distribution, use, renewal, revocation (if applicable) and end of life.

13.1 Data input

13.1.1 Tachograph cards

Card holders do not apply for certificates, their certificates are issued based on the information given in the application for a Tachograph card (section 10.2) and captured from the CIA register. The public key to be certified is extracted from the key generation process.

The CIA shall ensure that the input data contains information which renders the Certificate Holder Reference (CHR) unique. The MSCA shall verify the uniqueness of the CHR within its domain.

13.1.2 Vehicle units

Not applicable in Estonia for the time being or in the foreseeable future.

13.2 Tachograph card certificates

13.2.1 Driver certificates

Driver certificates are issued only to valid applicants for a Driver card.

13.2.2 Workshop certificates

Workshop certificates are issued only to valid applicants for a Workshop card.

13.2.3 Control body certificates

Control body certificates are issued only to valid applicants for a Control card.

13.2.4 Hauling company certificates

Hauling company certificates are issued only to valid applicants for a Company card.

13.3 Vehicle unit certificates

Not applicable in Estonia for the time being or in the foreseeable future.



13.4 Equipment certificate time of validity

Certificates shall not be valid longer than the corresponding equipment

- Driver certificates shall not be valid more than **5** years.
- Workshop certificates shall not be valid for more than 1 year.
- Control body certificates shall not be valid more than **5** years.
- Hauling company certificates shall not be valid more than 5 years.

13.5 Equipment certificate issuing

The MSCA shall ensure that it issues certificates so that their authenticity and integrity is maintained. Certificate contents are defined by Regulation Annex 1B [REG-A], appendix 11.

13.6 Equipment certificate renewal and update

See Equipment management (section 9). Since certificates and cards have the same time of validity, they are dealt with together. VU certificates have either no end of, or a very long time of validity, it is assumed that the lifetime of the equipment is shorter than that of the certificate.

13.7 Dissemination of equipment certificates and information

The CIA shall ensure that certificates are made available as necessary to users and related parties.

The CIA shall ensure that all terms and conditions, as well as relevant parts of the CSP PS, and other relevant information, are made readily available to all users, related parties and other relevant groups.

13.8 Equipment certificate use

The Tachograph certificates are only for use within the Tachograph system.

13.9 Equipment certificate revocation

Certificates are not revoked.

14 MSCA, CIA, CPO, CP, CSP and RA Information Security management

Each party's Practice Statement describes the information security management relevant to this National CA policy.

Each party maintains it's own information security policy documentation. The parties have signed an information security agreement, which handles in details overall security management of the parties.



Each party shall adopt an information security management system equivalent to BS7799 [ISO 17799]. Formal certification is not required.

Each party shall ensure that they will all the time have personnel which as minimum:

- Is trained for their part of the Tachograph system
- Has their roles specified in the Tachograph system
- Has been checked for their clearance by police or equivalent organization

Each party shall ensure that they maintain archives of records of their operations and they have a policy that defines the archive periods for those records.

15 MSCA or CIA Termination

15.1 Final termination - MSA responsibility

Final termination of an MSCA or CIA is regarded as the situation where all service associated with MSCA or CIA is terminated permanently. It is not the case where the service is transferred from one organization to another or when the MSCA service is passed over from an old Member State key pair to new Member State key pair or ERCA key. It implies the situation where Member State withdraws from the Tachograph system or termination of the entire Tachograph system.

The MSA shall ensure that the tasks outlined below are carried out.

Before the MSCA/CIA terminates its services the following procedures has to be completed as a minimum:

- a) Inform all users and parties with whom the MSCA/CIA has agreements or other form of established relations:
- b) Make publicly available information of its termination at least **3** month prior to termination;
- c) The MSCA/CIA shall terminate all authorization of subcontractors to act on behalf of the MSCA/CIA in the process of issuing certificates;
- d) The MSCA/CIA shall perform necessary undertakings to maintain and provide continuous access to record archives by handing them over to MSA on request

15.2 Transfer of CSP or CPO responsibility

Transfer of CSP or CPO responsibility occurs when the MSA chooses to appoint a new CSP or CPO in place of the former entity.



The MSA shall ensure that transfer of responsibilities and assets is carried out orderly.

The old CSP shall transfer all root keys to the new CSP in the manner decided by the MSA.

The old CSP shall destroy any copies of MSCA keys.

16 Audit

The MSA is responsible for ensuring that audits of the CPO and CSP take place.

16.1 Frequency of entity compliance audit

The CPO and CSP operating under this National CA policy shall be audited at least annually for conformance with the policy. Audit reports shall be available in English.

16.2 Topics covered by audit

The audit shall cover the CPO/CSP/RA's practices as defined in § 5.3 ERCA-CP [ERCA].

The audit shall cover the CPO/CSP/RA's compliance with this National CA policy.

The audit shall also consider the operations of any Service Agencies.

The audit shall produce the audit report, which defines the corrective actions, with the implementation schedule, needed to fulfil requirements in this policy.

16.3 Who should do the audit

The MSA may consult an external certification or accreditation organization for approval of the CPO/CP/CSP/RA PS in order to increase relying parties' trust in the implementation. Otherwise the MSA shall undertake the auditing.

16.4 Actions taken as a result of deficiency

If irregularities are found in the audit, the MSA shall take appropriate action depending on its severity.

16.5 Communication of results

Results of the audits, on a security status level, shall be available upon request. Actual audit reports shall not be available, except on need-to-know basis. Audit reports in English shall be submitted to the ERCA.



17 National CA policy change procedures

17.1 Items that may change without notification

The only changes that may be made to this specification without notification are

- a) Editorial or typographical corrections;
- b) Changes to the contact details.

17.2 Changes with notification

17.2.1 Notice

Any item in this certificate policy may be changed with **90** days notice.

Changes to items, which in the judgement of the policy responsible organization (the MSA), **will not** materially impact a substantial majority of the users or related parties using this policy, may be changed with **30** days notice.

17.2.2 Comment period

Impacted users may file comments with the policy administration organization within **15** days of original notice.

17.2.3 Whom to inform

Information about changes to this policy shall be sent to:

- ERCA
- MSCA and CIA including Service Agencies
- All other MSAs

17.2.4 Period for final change notice

If the proposed change is modified as a result of comments, notice of the modified proposed change shall be given at least **30** days prior to the change taking effect.

17.3 Changes requiring a new National CA policy approval

If a policy change is determined by the MSA organization to have a material impact on a significant number of users of the policy, the MSA shall submit the revised National CA policy to the **ERCA** for approval.

18 References

[REG] Council Regulation 3821/85 as amended by Council Regulation (EC) No 2135/98 of 24th September 1998



[ERCA]

[REG-A] Annex I(B) to Council Regulation 2135/98 Requirements for construction, testing, installation and inspection Digital Tachograph Card Issuing Best Practice Manual. Card [BPM] Issuing Group, 16 November 2001. (under construction), owned by the Commission [CC] Common Criteria. ISO/IEC 15408 (1999): "Information technology - Security techniques - Evaluation criteria for IT security (parts 1 to 3)". [CEN] CEN Workshop Agreement 14167-2: Cryptographic Module for CSP Signing Operations – Protection Profile (MCSO-PP) ETSI TS 102 042. Policy requirements for certification [ETSI 102 042] authorities issuing public key certificates [FIPS] FIPS PUB 140-2 (May 25, 2001): "Security Requirements for Cryptographic Modules". Information Technology Laboratory, National Institute of Standards and Technology (NIST) [ISO 17799] BS ISO/IEC 17799: 2000. Information technology - Code of practice for information security management. Common Security Guideline, Card Issuing Project. (under [CSG] construction), owed by the Commission

Special Publication I.04.131

Digital Tachograph System European Root Policy version 2.0



Correspondence table with the ERCA Policy

This correspondence table links the ERCA Root Policy [ERCA] chapter 5.3 requirements to this Estonian national CA policy.

ERCA	EST	Remarks
СР	СР	
§5.3.1	§1.1	CSP Practice Statement (PS) will identify the actual entities involved. PS will be made available to the ERCA.
§5.3.2	§11.2.1, §11.2.3, §11.3	CSP Practice Statement (PS) will identify actual (certified) HSM device to be used. PS will be made available to the ERCA
§5.3.3	§11 §11.2.1	CSP Practice Statement (PS) will identify actual physical security control systems used. PS will be made available to the ERCA
§5.3.4	§11.2.2	
§5.3.5	§11.2.1	
§5.3.6	§11.4	
§5.3.7	§11.4	
§5.3.8	§11.4	
§5.3.9	§11.4	
§5.3.10	§11.4	
§5.3.11	§11.2.7	
§5.3.12	§12.1, §12.2, §10.1	CP Practice Statement (PS) will identify actual (certified) HSM device to be used. PS will be made available to the ERCA
		CSP Practice Statement (PS) will identify actual (certified) card to be used. PS will be made available to the ERCA
§5.3.13	§7.1, §11.2.1, §12.2	
§5.3.14	§11.2.3, §12.2.2, §12.2.3	



ERCA	EST	Remarks
СР	СР	
§5.3.15	§11.2.4	
5.3.16	§12.2	
§5.3.17	§11.2.5, §12.2.5	
§5.3.18	§11.3	
§5.3.19		Not applicable
§5.3.20		Not applicable
§5.3.21	§11.3	
§5.3.22	§4.1.9,	Not applicable
§5.3.23	§7.1, §11.3	
§5.3.24	§11.3	. Certification of actual device used will be made available to the ERCA
§5.3.25	§ 4.1.9	Estonian NCA policy will not support VU-manufacturers
§5.3.26	§11.2.1	
§5.3.27	§11.2	
§5.3.28	§11.2.3	
§5.3.29	§13.1.1	
§5.3.30	§12.2	
	§13.1.1	
§5.3.31	§10.6	
	§13.9	
§5.3.32	§13.4	
§5.3.33, §5.3.34		Not applicable, as no undefined validity certificates (required for service to VU manufacturers) are handled under the EST NCA policy.
§5.3.35	§10.2, §10.9	
§5.3.36	§11.2.6	
§5.3.37	§11.2.6	



ERCA	EST	Remarks
СР	СР	
§5.3.38	§14	
§5.3.39	§14	
§5.3.40	§14	
§5.3.41	§15	
§5.3.42	§17	
§5.3.43	§16.1	
§5.3.44	§16.1	
§5.3.45	§16,	
	§16.5	
§5.3.46	§16,2,	
	§16.4	