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1.01	MSC	27/10/2011	Added CRL validity period, revision			
1.02	MSC	24/11/2011	Modified – Document OIDs for CAs			
1.03	MSC	09/02/2012	Modified – Added LCP for integration purposes.			
1.04	MSC	01/03/2012	Modified:			
			Added LCP for integration purposes for CSS			
			Table for OIDs			
			Modification of the CRL issuance algorithm (SHA256 to SHA1)			
1.05	MSC	19/03/2012	Modifications following review by Chris Quaresimin and Laurent Breuskin:			
			Removal of + Nestcape proprietary extension:			
			NetscapeCertificateType: sslClient, smime for non-SSL products			
			Display text for CSS integration product			
			Correct CRL and AIA for CSS integration product			
4.00		00/00/00/0	SSL Object certificate profile			
1.06	MSC	26/03/2012	Modifications for CSS certificates, signature will be performed using			
			SHA1WithRsa. Changes performed in CSS certificate profile for prod and			
4.07	1400	4.4/0.0/0.4.0	integration, page 43 and 51.			
1.07	MSC	14/06/2012	Added: TimeStamping CA and TimeStamping certificate profile			
1.08	MSC	29/06/2012	Added: Private key usage Period in TSP			
1.09	LBR	01/08/2012	Added: Certificate Profiles under LuxTrust Global Qualified CA			
			SC LORA & LRS Certificate			
			Modified:			
			Table for OIDs & LuxTrust CA Hierarchy			
1.09.1	LBR	02/08/2012	Update of OID Page 22			
1.09.2	MSC	07/08/2012	Added: Certificate profile for Extended Validation Certificates :			
			EVCP – ETSI TS 102 042			
			EVCP+ - ETSI TS 102 042			
			Added: Certificate profile for Secure Online File Exchange (SOFiE)			
1.10	YNU	23/08/2012	Review for validation of CP			
1.10	CSPBoard	24/08/2012	Validation			
1.11	CSPBoard	20/09/2012	Typo update			
1.12	YNU	21/12/2012	Added CP SSL/TLS Certificate for Client Authentication			
	TKO		Added CP non SSCD NCP+ Certificates supporting Advanced			
			Electronic Signatures for Mass Signature Services			
			Various syntactical and format corrections			





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1.13	CSP Board	23/04/2013	insertion of ILNAS logo including accreditation reference and technical standards reference			
1.14	YNU	29/11/2013	Update specific requirements for CP under the SSL CA			
1.15	YNU	18/01/2014	Clarification on Mozilla request			
1.16	YNU	05/06/2014	Update Cp - for LuxTrust Global Root Renew - QcS2 et QcS3 - Typo Add CP Seal Signature Services			
1.17	YNU	30/06/2014	Add certificate profile for eID CP eID QCP+ CP eID NCP+ Update CP Seal Signature Services OID			
1.18	YNU	15/10/2014	Update AIA in SSL CA			







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- [14] Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates. CA/Browser Forum. Latest version in force.
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1 INTRODUCTION

1.1 The LuxTrust project

The LuxTrust project was created in the form of a Trusted Third Party (hereafter also "TTP"), with an international reach, aiming to establish a national expertise centre for Luxembourg. LuxTrust as TTP especially focuses on providing support for any existing business needs in terms of security and also promotes new "e-business" and "e-government" opportunities, making the best possible use of existing legal and commercial assets which are unique to Luxembourg.

Established in November 2005 through a partnership between the Luxembourg government and the major private financial actors in Luxembourg, LUXTRUST S.A. was created to become a provider of certification services as defined in the law of the Grand-Duchy of Luxembourg modified on 14/08/2000 [7] itself derived from the European Directive on electronic signatures (1999/93/EC; cf. [1]). These laws and directives set out the legal framework for electronic signatures in the Grand-Duchy of Luxembourg as well as for LuxTrust activities as TTP.

LuxTrust S.A. acts as Financial Sector Professional providing Public Key Infrastructure (PKI) services for the whole economic marketplace in Luxembourg, for both private and public organisations.

1.2 Goal of the LuxTrust PKI

The Goal of LuxTrust PKI is to provide to each end-user, in Luxembourg but also outside its national borders, one single shared platform to secure both Government and Private e-applications. Security services supported and provided by the LuxTrust PKI will primarily cover the following services for all applications:

- Strong Authentication;
- Electronic Signatures;
- Encryption facilities;
- Trusted Time Stamping;

LuxTrust will also promote these services towards application service providers in order to facilitate the emergence of e-applications and accelerate eLuxembourg. Within this context, LuxTrust will form the catalyser of such services and applications.

1.3 LuxTrust PKI Hierarchy

LuxTrust S.A., acting as CSP as described in the law of Grand-Duchy of Luxembourg modified on 14/08/2000 [7], is using several Certification Authorities (CAs), as shown in the certificates hierarchy, to issue LuxTrust end-users certificates. These top level CAs are displayed on Figure 1 and figure 2.

In all (CA-) certificates issued to these CAs, LuxTrust S.A. is referred to as the legal entity being the certificate issuing authority, assuming final responsibility and liability for all LuxTrust CAs and services used by LuxTrust S.A. for provision of LuxTrust certifications services through any one of its CAs.

This responsibility and liability is still valid when LuxTrust S.A. acting as CSP through any of its CAs is sub-contracting services or part of services process to third parties. Sub-contracting agreements shall include back-to-back provisions to ensure that sub-contractors shall support the liability and responsibility for the sub-contracted provisioned services.







2 LuxTrust Certification Authorities

As described in section 1.3, LuxTrust S.A. acting as CSP is using several Certification Authorities (CAs) to issue LuxTrust Certificates.

2.1 Two-level CA hierarchy

The top level is the *LuxTrust Global Root CA*, the highest level of authority managed by LuxTrust. The LuxTrust PKI is formed using additional subordinates CAs: The legal person (organisation) responsible for these CAs is LuxTrust S.A. acting as CSP.

The LuxTrust PKI consists in a two-level CA hierarchy:

- One "LuxTrust Global Root CA" root-signing all subordinates LuxTrust CAs
- LuxTrust subordinate CAs. Each of these CAs is root-signed by the LuxTrust Global Root CA. Currently, the following CAs are foreseen:
 - LuxTrust Global Qualified CA
 - LuxTrust Privacy+ CA
 - LuxTrust SSL CA
 - LuxTrust TEST CA
 - LuxTrust Internal CA
 - LuxTrust Time Stamping Authority
 - LuxTrust eGovernment CA
- Additional CAs or CA hierarchies might be signed in the future under the LuxTrust Global Root CA

Subordinate CAs are operating within a grant of authority for issuing certificates under the LuxTrust CPS and the applicable CP. This grant has been provided by the "LuxTrust Global Root CA" (hereafter "LTGRCA") under the responsibility and authority of LuxTrust S.A. acting as CSP.

Note 1: Unless explicitly otherwise indicated, "the CA", refers to the LuxTrust Global Root CA granted to issue CA Certificates under responsibility of LuxTrust S.A. acting as CSP. "The CA" is thus legally designating LuxTrust S.A. acting as CSP.

LuxTrust S.A. acting as CSP ensures the availability of all services pertaining to the Certificates, including the issuance, suspension/un-suspension/revocation and renewal services as they may become available or required in specific applications.



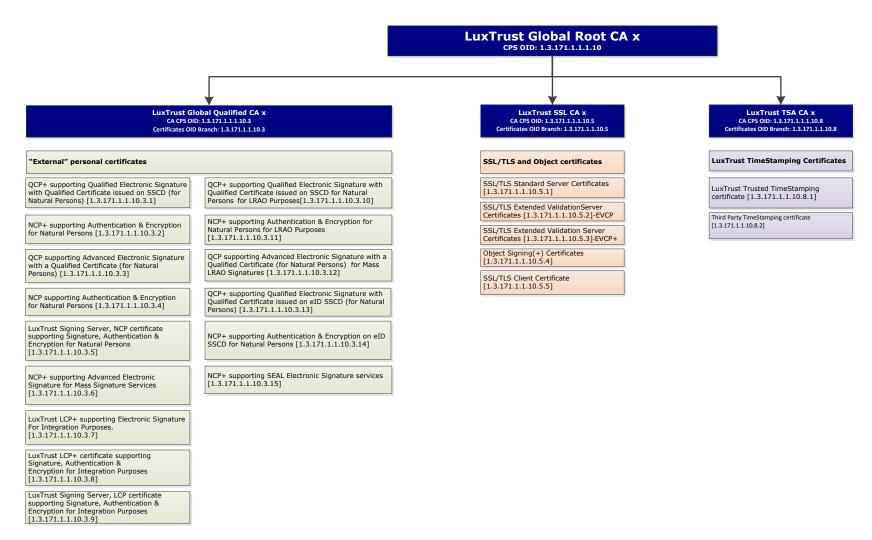


Figure 1 - LuxTrust running CA Hierarchy

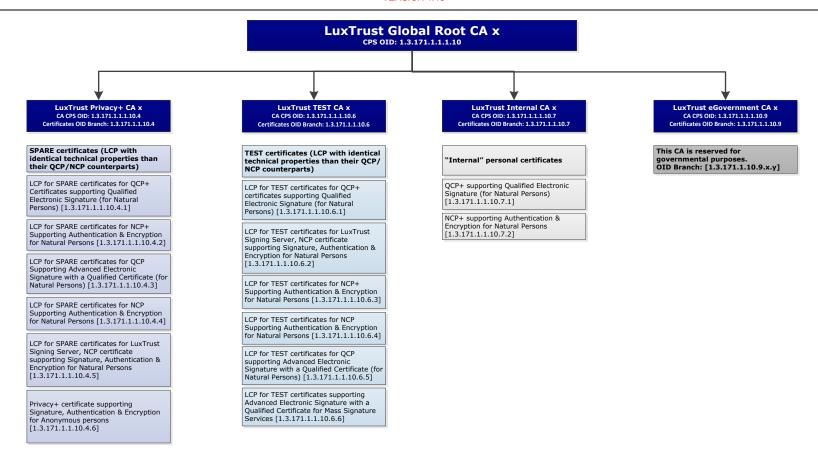


Figure 2 - LuxTrust foreseen CA Hierarchy

3 CERTIFICATE AND CRL PROFILES

3.1 Certificate types

The following table indicates and shortly describes the various types of certificates that are to be issued by LuxTrust under the new LuxTrust Global Root CA:

CP identification	CP OID	Document OID	Short Description	Ref. ¹	
LuxTrust Qualified Ce	LuxTrust Qualified Certification Authority				
QCP+ supporting Qualified Electronic Signature (for Natural Persons) issued by LuxTrust Global Qualified CA	1.3.171.1.1.10.3.1	1.3.171.1.1.10.2.3 .x(version) .y(sub-version)	ETSI TS 101 456 QCP+ compliant Qualified Certificate on SSCD Hardware token (e.g., LuxTrust Smart Card), with creation of the keys by the CSP, 2048 bit key size and three (3) years validity, and with a key usage limited to the support of qualified electronic signature. These Certificates are covered by the ILNAS accreditation as registered under the reference N° 2011/8/001 by the national registry of Accredited Certification Service Providers.	LuxTrust SSCD QCP+ Certificates supporting Qualified Signatures	
NCP+ supporting Authentication & Encryption for Natural Persons issued by LuxTrust Global Qualified CA	1.3.171.1.1.10.3.2	1.3.171.1.1.10.2.3 .x(version) .y(sub-version)	ETSI TS 102 042 NCP+ compliant Normalised Certificate on SSCD Hardware token (e.g., LuxTrust Smart Card), with creation of the keys by the CSP, 2048-bit key size and three (3) years validity, and with a key usage limited to authentication purpose (to the exclusion of electronic signature) and key & data encryption. These Certificates are covered by the ILNAS accreditation as registered under the reference N° 2011/8/001 by the national registry of Accredited Certification Service Providers.	LuxTrust SSCD NCP+ Certificates supporting Authentication & Encryption	

¹ Corresponding CP will be defined later when field is empty.



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CP identification	CP OID	Document OID	Short Description	Ref. ¹
QCP supporting Advanced Electronic Signature with a Qualified Certificate (for Natural Persons) issued by LuxTrust Global Qualified CA	1.3.171.1.1.10.3.3	1.3.171.1.1.10.2.3 .x(version) .y(sub-version)	ETSI TS 101 456 QCP compliant Qualified Certificate not issued on SSCD Hardware token, with creation of the keys by the CSP, 2048-bit key size and three (3) years validity, and with a key usage limited to the support of advanced electronic signature with a qualified certificate.	LuxTrust non SSCD QCP Certificates supporting Advanced Electronic Signatures
NCP supporting Authentication & Encryption for Natural Persons issued by LuxTrust Global Qualified CA	1.3.171.1.1.10.3.4	1.3.171.1.1.10.2.3 .x(version) .y(sub-version)	ETSI TS 102 042 NCP compliant Normalised Certificate not issued on SSCD Hardware token, with creation of the keys by the CSP, 2048-bit key size and three (3) years validity, and with a key usage limited to authentication purpose (to the exclusion of electronic signature) and key & data encryption.	LuxTrust non SSCD NCP Certificates supporting Authentication & Encryption
LuxTrust Signing Server, NCP certificate supporting Signature, Authentication & Encryption for Natural Persons issued by LuxTrust Global Qualified CA	1.3.171.1.1.10.3.5	1.3.171.1.1.10.2.3 .x(version) .y(sub-version)	ETSI TS 102 042 NCP compliant Normalised Certificate issued on a non SSCD centralized hardware token (i.e., LuxTrust Signing Server), with creation of the keys by the CSP, 2048-bit key size and three (3) years validity, and with a key usage limited to signature, authentication purpose and/or key & data encryption.	LuxTrust Signing Server Account NCP Certificates supporting Signature, Authentication & Encryption
NCP+ supporting Advanced Electronic Mass Signature Services issued by LuxTrust Global Qualified CA	1.3.171.1.1.10.3.6	1.3.171.1.1.10.2.3 .x(version) .y(sub-version)	ETSI TS 102 042 NCP+ compliant Normalised Certificate on Secure User Device (HSM), with creation of the keys by the CSP, 2048-bit key size and three (3) years validity, and with a key usage limited to the support of advanced electronic Mass Signature Services.	LuxTrust NCP+ Certificates supporting Mass Signature Services
LCP for INTEGRATION certificates LCP compliant certificates supporting integration Electronic Signature issued by LuxTrust Global Qualified CA	1.3.171.1.1.10.3.7	1.3.171.1.1.10.2.3 .x(version) .y(sub-version)	ETSI TS 102 042 LCP compliant certificate, on SSCD, Hardware token (e.g., LuxTrust Smart Card), with creation of the keys by the CSP, 2048 bit key size and three (3) years validity, and with a key usage limited to the support of electronic signature for INTEGRATION purposes of QCP+ signature certificates.	LuxTrust SSCD LCP+ Integration Certificates supporting Electronic Signatures







CP identification	CP OID	Document OID	Short Description	Ref. ¹
LCP for INTEGRATION certificates LCP+ supporting Authentication & Encryption issued by LuxTrust Global Qualified CA	1.3.171.1.1.10.3.8	1.3.171.1.1.10.2.3 .x(version) .y(sub-version)	ETSI TS 102 042 LCP compliant Certificate on SSCD Hardware token (e.g., LuxTrust Smart Card), with creation of the keys by the CSP, 2048-bit key size and three (3) years, and with a key usage limited to authentication purpose (to the exclusion of electronic signature) and key & data encryption for INTEGRATION purposes of NCP+ authentication and encryption certificates.	LuxTrust SSCD LCP+ Integration Certificates supporting Authentication & Encryption
LCP for INTEGRATION certificates for NCP+ supporting Authentication & Encryption issued by LuxTrust Global Qualified CA	1.3.171.1.1.10.3.9	1.3.171.1.1.10.2.3 .x(version) .y(sub-version)	ETSI TS 102 042 LCP compliant Normalised Certificate issued on a non SSCD centralized hardware token (i.e., LuxTrust Signing Server), with creation of the keys by the CSP, 2048-bit key size and three (3) years validity, and with a key usage limited to signature, authentication purpose and/or key & data encryption for INTEGRATION PURPOSES.	LuxTrust Signing Server Account LCP Certificates supporting Signature, Authentication & Encryption for integration purposes
QCP+ supporting Qualified Electronic Signature with Qualified Certificate issued on SSCD for Natural Persons for LRAO Purposes issued by LuxTrust Global Qualified CA	1.3.171.1.1.10.3.10	1.3.171.1.1.10.2.3 .x(version) .y(sub-version)	ETSI TS 101 456 QCP+ compliant Qualified Certificate on SSCD Hardware token (e.g., LuxTrust Smart Card), with creation of the keys by the CSP, 2048 bit key size and three (3) years validity, and with a key usage limited to the support of qualified electronic signature for LRAO Purposes.	LuxTrust Smartcard LORA Certificates supporting Signature for LRAO purposes
NCP+ supporting Authentication & Encryption for Natural Persons for LRAO Purposes issued by LuxTrust Global Qualified CA	1.3.171.1.1.10.3.11	1.3.171.1.1.10.2.3 .x(version) .y(sub-version)	ETSI TS 102 042 NCP+ compliant Normalised Certificate on SSCD Hardware token (e.g., LuxTrust Smart Card), with creation of the keys by the CSP, 2048-bit key size and three (3) years validity, and with a key usage limited to authentication purpose (to the exclusion of electronic signature) and key & data encryption for LRAO Purposes.	LuxTrust Smartcard LORA Certificates supporting Authentication & Encryption for LRAO purposes





CP identification	CP OID	Document OID	Short Description	Ref. ¹
QCP supporting Advanced Electronic Signature with a Qualified Certificate for Mass LRAO Signature issued by LuxTrust Global Qualified CA	1.3.171.1.1.10.3.12	1.3.171.1.1.10.2.3 .x(version) .y(sub-version)	ETSI TS 101 456 QCP compliant Qualified Certificate not issued on SSCD Hardware token, with creation of the keys by the CSP, 2048-bit key size and three (3) years validity, and with a key usage limited to the support of advanced electronic signature with a qualified certificate for Mass LRAO Signatures.	LuxTrust non SSCD Mass LRAO QCP Certificates supporting Advanced Electronic Signatures
QCP+ supporting Qualified Electronic Signature (for Natural Persons) issued by LuxTrust Global Qualified CA	1.3.171.1.1.10.3.13	1.3.171.1.1.10.2.3 .x(version) .y(sub-version)	ETSI TS 101 456 QCP+ compliant Qualified Certificate on SSCD Hardware token (e.g., Luxemburguish eID Smart Card), with creation of the keys by the CSP, 2048 bit key size and sixty-one (61) months validity, and with a key usage limited to the support of qualified electronic signature.	LuxTrust eID SSCD QCP+ Certificates supporting Qualified SignaturesLux Trust SSCD QCP+ Certificates supporting Qualified Signatures
NCP+ supporting Authentication & Encryption for Natural Persons issued by LuxTrust Global Qualified CA	1.3.171.1.1.10.3.14	1.3.171.1.1.10.2.3 .x(version) .y(sub-version)	ETSI TS 102 042 NCP+ compliant Normalised Certificate on SSCD Hardware token (e.g., Luxemburguish eID Smart Card), with creation of the keys by the CSP, 2048-bit key size and sixty-one (61) months validity, and with a key usage limited to authentication purpose (to the exclusion of electronic signature) and key & data encryption.	LuxTrust eID SSCD NCP+ Certificates supporting Authentication & Encryption
NCP+ Advanced Electronic Seal Signature Services issued by LuxTrust Global Qualified CA	1.3.171.1.1.10.3.15	1.3.171.1.1.10.3 .x(version) .y(sub-version)	ETSI TS 102 042 NCP+ compliant Normalised Certificate on Secure User Device (HSM), with creation of the keys by the CSP, 2048-bit key size and three (3) years validity, and with a key usage limited to the support of advanced electronic Seal Signature Services.	LuxTrust NCP+ Certificates supporting SEAL Signature Services





CP identification	CP OID	Document OID	Short Description	Ref. ¹
LuxTrust Privacy+ Certifi	cation Authority			
LCP for SPARE certificates for QCP+ certificates supporting Qualified Electronic Signature (for Natural Persons) issued by LuxTrust Privacy+ CA	1.3.171.1.1.10.4.1	1.3.171.1.1.10.2.4 .x(version) .y(sub-version)	ETSI TS 102 042 LCP compliant certificate, on SSCD, Hardware token (e.g., LuxTrust Smart Card), with creation of the keys by the CSP, 2048 bit key size and three (3) years validity, and with a key usage limited to the support of electronic signature for SPARE purposes of QCP+ signature certificates.	
LCP for SPARE certificates for NCP+ supporting Authentication & Encryption for Natural Persons issued by LuxTrust Privacy+ CA	1.3.171.1.1.10.4.2	1.3.171.1.1.10.2.4 .x(version) .y(sub-version)	ETSI TS 102 042 LCP compliant Certificate on SSCD Hardware token (e.g., LuxTrust Smart Card), with creation of the keys by the CSP, 2048-bit key size and three (3) years, and with a key usage limited to authentication purpose (to the exclusion of electronic signature) and key & data encryption for SPARE purposes of NCP+ authentication and encryption certificates.	
LCP for SPARE certificates for QCP supporting Advanced Electronic Signature with a Qualified Certificate (for Natural Persons) issued by LuxTrust Privacy+ CA	1.3.171.1.1.10.4.3	1.3.171.1.1.10.2.4 .x(version) .y(sub-version)	ETSI TS 102 042 LCP compliant Certificate not issued on SSCD Hardware token, with creation of the keys by the CSP, 2048-bit key size and three (3) years validity, and with a key usage limited to the support of advanced electronic signature with a qualified certificate for SPARE purposes of QCP signature certificates.	
LCP for SPARE certificates for NCP supporting Authentication & Encryption for Natural Persons issued by LuxTrust Privacy+ CA	1.3.171.1.1.10.4.4	1.3.171.1.1.10.2.4 .x(version) .y(sub-version)	ETSI TS 102 042 LCP compliant certificate not issued on SSCD Hardware token, with creation of the keys by the CSP, 2048-bit key size and three (3) years validity, and with a key usage limited to authentication purpose (to the exclusion of electronic signature) and key & data encryption for SPARE purposes of NCP authentication and encryption certificates.	





CP identification	CP OID	Document OID	Short Description	Ref. ¹
LCP for SPARE certificates for LuxTrust Signing Server, NCP certificate supporting Signature, Authentication & Encryption for Natural Persons issued by LuxTrust Privacy+ CA	1.3.171.1.1.10.4.5	1.3.171.1.1.10.2.4 .x(version) .y(sub-version)	ETSI TS 102 042 LCP compliant Certificate issued on a non SSCD centralised hardware token (i.e., LuxTrust Signing Server), with creation of the keys by the CSP, 2048-bit key size and three (3) years validity, and with a key usage limited to signature, authentication purpose and/or key & data encryption for SPARE purposes of NCP authentication, encryption and signature certificates.	
Privacy+ certificate supporting Signature, Authentication & Encryption for Anonymous persons issued by LuxTrust Privacy+ CA	1.3.171.1.1.10.4.6	1.3.171.1.1.10.2.4 .x(version) .y(sub-version)	ETSI TS 102 042 LCP compliant Certificate issued on a non SSCD hardware token, with creation of the keys by the CSP, 2048-bit key size and three (3) years validity, and with a key usage limited to signature, authentication purpose and/or key & data encryption for authentication, encryption and signature certificates.	
LuxTrust SSL Certification	on Authority	l		
SSL/TLS(+) Standard Server Certificates issued by LuxTrust SSL CA	1.3.171.1.1.10.5.1	1.3.171.1.1.10.2.5 .x(version) .y(sub-version)	ETSI TS 102 042 LCP compliant certificate, on SCD, produced by SSL CA, with creation of the keys by the Subscriber, 2048-bit key size, (1) or (3) years validity, and a key usage combining digital signature (dS bit), key and data encryption as well as extended key usage for server and client authentication and secure e-mail.	LuxTrust SSL/TLS Standard Server Certificates – LCP certificates supporting Signature, Authentication & Encryption



CP identification	CP OID	Document OID	Short Description	Ref. ¹
SSL/TLS(+) Extended Validation Server Certificates - EVCP issued by LuxTrust SSL CA	1.3.171.1.1.10.5.2	1.3.171.1.1.10.2.5 .x(version) .y(sub-version)	ETSI TS 102 042 EVCP compliant certificate, produced by SSL CA, with creation of the keys by the Subscriber, 2048-bit key size, (1) or (2) years validity, and a key usage combining digital signature (dS bit), key and data encryption as well as extended key usage for server and client authentication and secure e-mail.	SSL/TLS Extended Validation Server Certificates – EVCP certificates supporting Signature, Authentication & Encryption
SSL/TLS(+) Extended Validation Server Certificates – EVCP+ issued by LuxTrust SSL CA	1.3.171.1.1.10.5.3	1.3.171.1.1.10.2.5 .x(version) .y(sub-version)	ETSI TS 102 042 EVCP+ compliant certificate, on Secure User Device, produced by SSL CA, 2048-bit key size, (1) or (2) years validity, and a key usage combining digital signature (dS bit), key and data encryption as well as extended key usage for server and client authentication and secure e-mail.	SSL/TLS Extended Validation Server Certificates - EVCP+ certificates supporting Signature, Authentication & Encryption
Object Signing(+) Certificates issued by LuxTrust SSL CA	1.3.171.1.1.10.5.4	1.3.171.1.1.10.2.5 .x(version) .y(sub-version)	ETSI TS 102 042 LCP compliant certificateproduced by SSL CA, with creation of the keys by the Subscriber, 2048-bit key size, (1) or (3) years validity, and a key usage combining digital signature (dS bit), key and data encryption.	LuxTrust Object (or Code) Signing Certificates
LuxTrust SSL/TLS Certificate for Client Authentication issued by LuxTrust SSL CA	1.3.171.1.1.10.5.5	1.3.171.1.1.10.2.5 .x(version) .y(sub-version)	ETSI TS 102 042 LCP compliant certificateproduced by SSL CA, with creation of the keys by the Subscriber, 2048-bit key size, (1) or (3) years validity, and a key usage combining digital signature (dS bit), key and data encryption as well as extended key usage for client authentication and secure e-mail.	LuxTrust SSL/TLS Certificate for Client Authentication



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CP identification	CP OID	Document OID	Short Description	Ref. ¹
LuxTrust TEST Certificat	ion Authority			
LCP for TEST certificates for QCP+ certificates supporting Qualified Electronic Signature (for Natural Persons) issued by LuxTrust Test CA	1.3.171.1.1.10.6.1	1.3.171.1.1.10.2.6 .x(version) .y(sub-version)	ETSI TS 102 042 LCP compliant certificate, on SSCD, Hardware token (e.g., LuxTrust Smart Card), with creation of the keys by the CSP, 2048 bit key size and three (3) years validity, and with a key usage limited to the support of electronic signature for TEST purposes of QCP+ signature certificates.	
LCP for TEST certificates for NCP+ supporting Authentication & Encryption for Natural Persons issued by LuxTrust Test CA	1.3.171.1.1.10.6.2	1.3.171.1.1.10.2.6 .x(version) .y(sub-version)	ETSI TS 102 042 LCP compliant Certificate on SSCD Hardware token (e.g., LuxTrust Smart Card), with creation of the keys by the CSP, 2048-bit key size and three (3) years validity, and with a key usage limited to authentication purpose (to the exclusion of electronic signature) and key & data encryption for TEST purposes of NCP+ authentication and encryption certificates.	
LCP for TEST certificates for QCP supporting Advanced Electronic Signature with a Qualified Certificate (for Natural Persons) issued by LuxTrust Test CA	1.3.171.1.1.10.6.3	1.3.171.1.1.10.2.6 .x(version) .y(sub-version)	ETSI TS 102 042 LCP compliant Certificate not issued on SSCD Hardware token, with creation of the keys by the CSP, 2048-bit key size and three (3) years validity, and with a key usage limited to the support of advanced electronic signature with a qualified certificate for TEST purposes of QCP signature certificates.	
LCP for TEST certificates for NCP supporting Authentication & Encryption for Natural Persons issued by LuxTrust Test CA	1.3.171.1.1.10.6.4	1.3.171.1.1.10.2.6 .x(version) .y(sub-version)	ETSI TS 102 042 LCP compliant certificate not issued on SSCD Hardware token, with creation of the keys by the CSP, 2048-bit key size and three (3) years validity, and with a key usage limited to authentication purpose (to the exclusion of electronic signature) and key & data encryption for TEST purposes of NCP authentication and encryption certificates.	





CP identification	CP OID	Document OID	Short Description	Ref. ¹
LCP for TEST certificates for LuxTrust Signing Server, NCP certificate supporting Signature, Authentication & Encryption for Natural Persons issued by LuxTrust Test CA	1.3.171.1.1.10.6.5	1.3.171.1.1.10.2.6 .x(version) .y(sub-version)	ETSI TS 102 042 LCP compliant Certificate issued on a non SSCD centralised hardware token (i.e., LuxTrust Signing Server), with creation of the keys by the CSP, 2048-bit key size and three (3) years validity or validity, and with a key usage limited to signature, authentication purpose and/or key & data encryption for TEST purposes of NCP authentication, encryption and signature certificates.	
LCP for TEST certificates supporting Advanced Electronic Signature with a Qualified Certificate for Mass Signature Services issued by LuxTrust Test CA	1.3.171.1.1.10.6.6	1.3.171.1.1.10.2.6 .x(version) .y(sub-version)	ETSI TS 101 456 QCP compliant Qualified Certificate not issued on SSCD Hardware token, with creation of the keys by the CSP, 2048-bit key size and three (3) years validity, and with a key usage limited to the support of advanced electronic signature with a qualified certificate for Mass Signature Services.	
LuxTrust Internal Certific	ation Authority			
QCP+ supporting Qualified Electronic Signature (for Natural Persons) issued by LuxTrust Internal CA	1.3.171.1.1.10.7.1	1.3.171.1.1.10.2.6 .x(version) .y(sub-version)		
NCP+ supporting Authentication & Encryption for Natural Persons issued by LuxTrust Internal CA	1.3.171.1.1.10.7.2	1.3.171.1.1.10.2.6 .x(version) .y(sub-version)		





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CP identification	CP OID	Document OID	Short Description	Ref. ¹						
LuxTrust TSA (Timestamping) Certification Authority										
LuxTrust Trusted TimeStamping certificate issued by LuxTrust TSA CA	1.3.171.1.1.10.8.1	1.3.171.1.1.1.10.2.6 .x(version) .y(sub-version)	LuxTrust certificate compliant with ETSI TS 102 023. Sole authorised usage: Signature of LuxTrust Trusted Time Stamp tokens generated by LuxTrust time-stamping authority. These Certificates are covered by the ILNAS accreditation as registered under the reference N° 2011/8/001 by the national registry of Accredited Certification Service Providers.	Timestamping Certificate Profile						
Third Party TimeStamping certificate issued by LuxTrust TSA CA	1.3.171.1.1.10.8.2	1.3.171.1.1.1.10.2.6 .x(version) .y(sub-version)								

Subscriber's Agreement (Purchase Orders and General Terms and Conditions) is made available to customers by LuxTrust S.A. acting as CSP.

In addition to these "external" certificate types, "Internal Certificate Policies" are exclusively reserved by LuxTrust S.A. acting as CSP for issuance of security credentials (and certificates) within the management and operation domains of the LuxTrust PKI. This encompasses but is not limited to PKI component services provider's entities (e.g., RA, SRA, TSAs, devices, components, etc.), specific officers considered as security officers, etc.

Within the present document, Certificates issued by LuxTrust S.A. acting as CSP are collectively called the "Certificates" regardless of their type, unless they are more clearly and specifically identified.

In addition to the above described certifications services, the LuxTrust CSP activities include the LuxTrust Time Stamping Services (TSS). These services consist of the management of the infrastructure, and the provisioning of Time Stamp Tokens according to the LuxTrust Time Stamping Policy [12].

These services are provided by LuxTrust S.A. acting as LuxTrust Trusted Time Stamping Services Provider (TTSSP) to the Subscribers and are an integral part of the LuxTrust PKI. Hereafter the term CSP includes the activities and provision of trusted time stamping services as expressed in the European Directive on electronic signatures (cf. [1]). LuxTrust Trusted Time Stamping services are covered within the LuxTrust Trusted Time Stamping V2 policy [12].

The LuxTrust CSP Board acts as Policy Approval Authority for LuxTrust S.A.. In particular the CSP board manages the LuxTrust Certification Practice Statement (CPS) and all related CPs, covering the statements of the practices followed by LuxTrust S.A. acting as CSP in issuing CA and end-entities certificates as well as in issuing TSTs through its TSAs.

By means of the CPS and related CPs, LuxTrust S.A. acting as CSP indicates and guarantees that it complies with regulatory and standard texts applicable, and whether or not this guarantee is supported by an accreditation as well as the name and coordinates of the accreditation body.





LuxTrust S.A. OID : 1.3.171.1	ETSI OIDs	QCP+	0.4.0.1456.1.1
LuxTrust PKI: 1.3.171.1.1	for info	QCP	0.4.0.1456.1.2
		NCP	0.4.0.2042.1.1
		NCP+	0.4.0.2042.1.2
		LCP	0.4.0.2042.1.3

Document category	Document		Sub-document - description	LuxTrust Product	Version	Sub- version	Complete OID	ETSI OID
LuxTrust Certificat	tion Practice Statements							
	1		0 (master)		x	у	1.3.171.1.1. 1.1.0.x.y	N/A
	CPS Summary							N/A
	S LuxTrust S S S S S S S S S	0	Not Used		N/A	N/A	not used	N/A
		1	First document		x	у	1.3.171.1.1. 1.2.1.x.y	N/A
		2	Second document		х	у	1.3.171.1.1. 1.2.2.x.y	N/A
		3	Third document		x	у	1.3.171.1.1. 1.2.3.x.y	N/A
		4	Fourth document		x	у	1.3.171.1.1. 1.2.4.x.y	N/A
			etc.		х	у	1.3.171.1.1. 1.2.5.x.y	N/A
1		0	0 Reserved		N/A			N/A
CPS LuxTrust		1	Reserved		N/A			N/A
		2	LuxTrust Global Root CA		x	у	1.3.171.1.1. 1.10.2.x.y	N/A
		3	LuxTrust Global Qualified CA		x	у	1.3.171.1.1. 1.10.3.x.y	N/A
		4	LuxTrust Privacy+ CA		x	у	1.3.171.1.1. 1.10.4.x.y	N/A
	CPS LuxTrust Global Root	5	LuxTrust SSL CA		x	у	1.3.171.1.1. 1.10.5.x.y	N/A
		6	LuxTrust TEST CA		x	у	1.3.171.1.1. 1.10.6.x.y	N/A
		7	LuxTrust Internal CA		x	у	1.3.171.1.1. 1.10.7.x.y	N/A
		8	LuxTrust Global Timestamping CA		x	у	1.3.171.1.1. 1.10.8.x.y	N/A
		9	LuxTrust eGovernment CA	·	x	у	1.3.171.1.1. 1.10.9.x.y	N/A
LuxTrust Certifica	te Policies							
10 CP's LuxTrust Global	1 Reserved							N/A
Chain	2 Reserved							N/A





Document category	Document		Sub-document - description	LuxTrust Product	Version	Sub- version	Complete OID	ETSI OID
		0	Master document	N/A	х	у	1.3.171.1.1.10.3.0.x.y	N/A
		1	QCP+ supporting Advanced Electronic Signature with Qualified Certificate issued on SSCD (for Natural Persons)	SmartCard PRI/PRO Signature Certificate	-	-	1.3.171.1.1.10.3.1	0.4.0.1456.1.1
		2	NCP+ supporting Authentication & Encryption for Natural Persons	SmartCard PRI/PRO Authentication Certificate	-	-	1.3.171.1.1.10.3.2	0.4.0.2042.1.2
		3	QCP supporting Advanced Electronic Signature with a Qualified Certificate (for Natural Persons)	Signing Stick PRI/PRO Signature Certificate	-	-	1.3.171.1.1.10.3.3	0.4.0.1456.1.2
		4	NCP Authentication & Encryption	Signing Stick PRI/PRO Authentication Certificate	-	-	1.3.171.1.1.10.3.4	0.4.0.2042.1.1
	3	5	NCP Authentication, Encryption & Signature [LuxTrust Signing Server]	Signing Server Certificate	-	-	1.3.171.1.1.10.3.5	0.4.0.2042.1.1
	LuxTrust Global Qualified CA Certificates issued to Natural Persons	6	NCP+ supporting AdES for Mass Signature Services	Mass Signature Service signature Certificate	-	-	1.3.171.1.1.10.3.6	0.4.0.2042.1.1
		7	LuxTrust LCP+ supporting Electronic Signature For Integration purposes.	Integration SmartCard Signature Certificate	-	-	1.3.171.1.1.10.3.7	0.4.0.2042.1.3
		8	LuxTrust LCP+ certificate supporting Signature, Authentication & Encryption for Integration purposes	Integration SmartCard Authentication Certificate	-	-	1.3.171.1.1.10.3.8	0.4.0.2042.1.3
		9	LuxTrust LCP Certificates supporting Signature, Authentication & Encryption for integration purposes	Integration Signing Server Certificate	-	-	1.3.171.1.1.10.3.9	0.4.0.2042.1.3
		10	QCP+ supporting Advanced Electronic Signature with Qualified Certificate issued on SSCD (for Natural Persons) for Natural	SmartCard LORA Signature Certificate	-		1.3.171.1.1.10.3.10	0.4.0.1456.1.1





Document category	Document		Sub-document - description	LuxTrust Product	Version	Sub- version	Complete OID	ETSI OID
			Persons for LRAO Purposes					
		11	NCP+ supporting Authentication & Encryption for Natural Persons for LRAO Purposes	SmartCard LORA Authentication Certificate	-	-	1.3.171.1.1.10.3.11	0.4.0.2042.1.2
		12	QCP supporting Advanced Electronic Signature with a Qualified Certificate (for Natural Persons) for Mass LRAO Signatures [1.3.171.1.1.10.3.12]	Mass LRAO Signature Certificate	-	-	1.3.171.1.1.10.3.12	0.4.0.1456.1.2
		13	QCP+ supporting Advanced Electronic Signature with Qualified Certificate issued on SSCD (for Natural Persons)	eID SmartCard Signature Certificate	-	-	1.3.171.1.1.10.3.13	0.4.0.1456.1.1
		14	NCP+ supporting Authentication & Encryption for Natural Persons	eID SmartCard Authentication Certificate	-	-	1.3.171.1.1.10.3.14	0.4.0.2042.1.2
		15	NCP+ supporting Advanced Electronic Seal Signature Services	Seal Signature Services	-	-	1.3.171.1.1.10.3.15	0.4.0.1456.1.2
		0	Master document		х	у	1.3.171.1.1.10.4.0.x.y	N/A
		1	LCP for SPARE certificates for QCP+ Certificates supporting Qualified Electronic Signature (for Natural Persons)	SmartCard SPARE Signature certificate	-	-	1.3.171.1.1.10.4.1	0.4.0.2042.1.3
	4 LuxTrust Privacy+ CA	2	LCP for SPARE certificates for NCP+ Supporting Authentication & Encryption for Natural Persons	SmartCard SPARE Authentication Certificate	-	-	1.3.171.1.1.10.4.2	0.4.0.2042.1.3
10	10 CP's LuxTrust Global Chain	3	LCP for SPARE certificates for QCP Supporting Advanced Electronic Signature with a Qualified Certificate (for Natural Persons)	Signing Stick SPARE Signature Certificate	-	-	1.3.171.1.1.10.4.3	0.4.0.2042.1.3
CP's LuxTrust Global		4	LCP for SPARE certificates for NCP Supporting Authentication & Encryption for Natural Persons	Signing Stick SPARE Authentication Certificate	-	-	1.3.171.1.1.10.4.4	0.4.0.2042.1.3
		5	LCP for SPARE certificates for LuxTrust Signing	Signing Server SPARE	-	-	1.3.171.1.1.10.4.5	0.4.0.2042.1.3



Document category	Document		Sub-document - description	LuxTrust Product	Version	Sub- version	Complete OID	ETSI OID
			Server, NCP certificate supporting Signature,	certificate				
			Authentication & Encryption for Natural Persons					
			Privacy+ certificate supporting Signature,					
		6	Authentication & Encryption for Anonymous persons	Signing Server Privacy+ Certificate	-	-	1.3.171.1.1.10.4.6	
		0	Master document	N/A	х	у	1.3.171.1.1.10.5.0.x.y	N/A
		1	SSL/TLS Standard Server Certificates	SSL/TLS Standard Server Certificates	-	-	1.3.171.1.1.10.5.1	0.4.0.2042.1.3
		2	SSL/TLS(+) Extended Validation Server Certificates - EVCP	SSL/TLS Extended Validation Server Certificates	-	-	1.3.171.1.1.10.5.2	0.4.0.2042.1.4
	5 LuxTrust SSL CA	3	SSL/TLS(+) Extended Validation Server Certificates - EVCP+	SSL/TLS Extended Validation Server Certificates on Secure Device	-	-	1.3.171.1.1.10.5.3	0.4.0.2042.1.5
		4	Object Signing(+) Certificates	Object Signing(+) Certificates	-	-	1.3.171.1.1.10.5.4	0.4.0.2042.1.3
		5	SSL/TLS Client Certificate	SSL/TLS Client Certificate			1.3.171.1.1.10.5.5	0.4.0.2042.1.3
		0	Master document	N/A	х	у	1.3.171.1.1.10.6.0	N/A
			LCP for TEST certificates for QCP+ certificates					
		1	supporting Qualified Electronic Signature (for		-	-	1.3.171.1.1.10.6.1	0.4.0.2042.1.3
	6 LuxTrust TEST CA		Natural Persons)					
	Lux IIuSt IESI CA		LCP for TEST certificates for LuxTrust Signing					
		2	Server, NCP certificate supporting Signature,		-	-	1.3.171.1.1.10.6.2	0.4.0.2042.1.3
			Authentication & Encryption for Natural Persons					
		3	LCP for TEST certificates for NCP+ Supporting		_	-	1.3.171.1.1.10.6.3	0.4.0.2042.1.3
			Authentication & Encryption for Natural Persons					
		4	LCP for TEST certificates for NCP Supporting		-	-	1.3.171.1.1.10.6.4	0.4.0.2042.1.3



Document category	Document	Sub-document - description LuxTrust Product		Version	Sub- version	Complete OID	ETSI OID	
			Authentication & Encryption for Natural Persons					
			LCP for TEST certificates for QCP supporting					
		5	Advanced Electronic Signature with a Qualified		-	-	1.3.171.1.1.10.6.5	0.4.0.2042.1.3
			Certificate (for Natural Persons)					
			LCP for TEST certificates supporting Advanced					
		6	Electronic Signature with a Qualified Certificate		-	-	1.3.171.1.1.10.6.6	0.4.0.2042.1.3
			for Mass Signature Services					
		0	Master document	N/A	x	у	1.3.171.1.1.10.7.0	N/A
	7 LuxTrust Internal CA	1	QCP+ supporting Qualified Electronic Signature (for Natural Persons)	RA SmartCard Signature certificate	-	-	1.3.171.1.1.10.7.1	0.4.0.1456.1.2
		2	NCP+ supporting Authentication & Encryption for Natural Persons	RA SmartCard Authentication certificate	-	-	1.3.171.1.1.10.7.2	0.4.0.2042.1.2
		0	Master document	N/A			1.3.171.1.1.10.8.0	N/A
	8	1	LuxTrust Trusted Time Ctemping contificate	LuxTrust Trusted			1.3.171.1.1.10.8.1	
	LuxTrust Global	'	LuxTrust Trusted TimeStamping certificate	TimeStamping certificate			1.3.171.1.1.10.0.1	
	Timestamping CA	2	Third Dark, Time Stemping contificate	Third Party			1.3.171.1.1.10.8.2	
			Third Party TimeStamping certificate	TimeStamping certificate			1.5.17 1.1.1.10.0.2	
	8	0	Master document	N/A			1.3.171.1.1.10.9.0	N/A
	LuxTrust eGovernment CA			Reserved for future us	e			



3.2 LuxTrust Certification Authorities - Certificates profiles

LuxTrust certificates are X.509 v3, compliant with RFC 5280.

LuxTrust CAs certificate profiles description is available as follows:

3.2.1 LuxTrust Global Root CA

	Lux	Trust Glo	obal Roo	t CA	
Base Profile	OID	Included	Critical	Value	
Version		х		V3	
SerialNumber		Х		As provided by CA or by LuxTrust S.A.	
SignatureAlgorithm					
Algorithm	1.2.840.113549.1.1.11	Х		SHA256 with RSA Encryption	Fixed
SignatureValue		Х		Issuing CA Signature	
Validity					
NotBefore		Х		Key Generation Process Date/Time	
NotAfter		х		Key Generation Process Date/Time + 10 years	Fixed
SubjectPublicKeyInfo		х		Public Key: Key length: 2048 up to 4096 bits (RSA); public exponent: Fermat-4 (=010001).	
Issuer					
CountryName	{ id-at-6 }	Х		LU	Fixed
CommonName	{ id-at-3 }	Х		LuxTrust Global Root x ²	Fixed
organizationName		Х		LuxTrust S.A.	Fixed
Subject					
CountryName	{ id-at-6 }	Х		LU	Fixed
CommonName	{ id-at-3 }			LuxTrust Global Root x ²	Fixed
organizationName		Х		LuxTrust S.A.	Fixed
KeyUsage	{id-ce 15}	Х	TRUE⁵		
CertificateSigning				Set	Fixed
crlSigning				Set	Fixed
authorityKeyIdentifier	{id-ce 35}	Х	FALSE		
Keyldentifier		Х		SHA-1 Hash	
subjectKeyIdentifier	{id-ce 14}	Х	FALSE		
Keyldentifier		Х		SHA-1 Hash	

² X is a sequential value to distinguish the old CA from the renewed CA. The value 1 is omitted as it is the first CA issued.



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	LuxTrust Global Root CA											
Base Profile	OID	Included	Critical	Value								
BasicConstraints	{id-ce 19}	×	TRUE⁵									
CA		X		TRUE	Fixed							
pathLenConstraint		Х		None	Fixed							

3.2.2 LuxTrust Global Qualified CA

	LuxT	rust Glob	al Qualif	ied CA	
Base Profile	OID	Included	Critical	Value	
Version		Х		V3	
SerialNumber		Х		As provided by CA or by LuxTrust S.A.	
SignatureAlgorithm					
Algorithm	1.2.840.113549.1.1.11	Х		SHA256 with RSA Encryption	Fixed
SignatureValue		Х		Issuing LTGRCA Signature	
Validity					
NotBefore		х		Key Generation Process Date/Time	
NotAfter		х		Key Generation Process Date/Time +up to 6;7 years	Fixed
SubjectPublicKeyInfo		х		Public Key: Key length: 2048 up to 4096 bits (RSA); public exponent: Fermat-4 (=010001).	
Issuer					
CountryName	{ id-at-6 }	Х		LU	Fixed
CommonName	{ id-at-3 }	Х		LuxTrust Global Root x ²	Fixed
organizationName		Х		LuxTrust S.A.	Fixed
Subject					
CountryName	{ id-at-6 }	Х		LU	Fixed
CommonName	{ id-at-3 }			LuxTrust Global Qualified CA x ³	Fixed
organizationName		Х		LuxTrust S.A.	Fixed
CertificatePolicies	{id-ce 32}	Х	FALSE		
policyldentifier		Х		1.3.171.1.1.10.3	Fixed
policyQualifiers				N/a	
policyQualifierId	{ id-qt-1 }	Х		CPS	Fixed
Qualifier	CPSuri	Х		https://repository.luxtrust.lu	Fixed
KeyUsage	{id-ce 15}	Х	TRUE⁵		
keyCertSign				Set	Fixed

 $^{^3}$ X is a sequential value to distinguish the old CA and the renewed CA. The value 1 is omitted as it is the first CA issued.



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	LuxTrust Global Qualified CA							
Base Profile	OID	Included	Critical	Value				
crlSign				Set	Fixed			
authorityKeyIdentifier	{id-ce 35}	х	FALSE					
Keyldentifier		Х		SHA-1 Hash of Authority public key				
subjectKeyIdentifier	{id-ce 14}	х	FALSE					
Keyldentifier		Х		SHA-1 Hash of Subject public key				
cRLDistributionPoints	{id-ce 31}	х	FALSE					
distributionPoint								
FullName		Х		http://crl.luxtrust.lu/LTGRCAx ⁴ .crl	Fixed			
BasicConstraints	{id-ce 19}	х	TRUE⁵	N/A				
CA		Х		TRUE	Fixed			
pathLenConstraint		Х		0 (Zero)	Fixed			

3.2.3 LuxTrust Privacy+ CA

	LuxTrust Privacy+ CA						
Base Profile	OID	Included	Critical	Value			
Version		Х		V3			
SerialNumber		Х		As provided by CA or by LuxTrust S.A.			
SignatureAlgorithm							
Algorithm	1.2.840.113549.1.1.11	Х		SHA256 with RSA Encryption	Fixed		
SignatureValue		Х		Issuing LTGRCA Signature			
Validity							
NotBefore		Х		Key Generation Process Date/Time			
NotAfter		Х		Key Generation Process Date/Time +up to 6 years	Fixed		
SubjectPublicKeyInfo		х		Public Key: Key length: 2048 up to 4096 bits (RSA); public exponent: Fermat-4 (=010001).			
Issuer							
CountryName	{ id-at-6 }	Х		LU	Fixed		
CommonName	{ id-at-3 }	Х		LuxTrust Global Root x ²	Fixed		
organizationName		Х	_	LuxTrust S.A.	Fixed		
Subject			_				
CountryName	{ id-at-6 }	Х		LU	Fixed		

 $^{^4}$ X is a sequential value to distinguish the old CA and the renewed CA. The value 1 is omitted as it is the first CA issued

⁵ Criticality of this extension should be carefully considered with regards to the compliance with RFC 5280 stating in its section 4.2.1.10 that "This extension MUST appear as a critical extension in all CA certificates that contain public keys used to validate digital signatures on certificates. This extension MAY appear as a critical or non-critical extension in CA certificates that contain public keys used exclusively for purposes other than validating digital signatures on certificates".







	LuxTrust Privacy+ CA						
Base Profile	OID	Included	Critical	Value			
CommonName	{ id-at-3 }			LuxTrust Privacy+ CA x ⁶	Fixed		
organizationName		Х		LuxTrust S.A.	Fixed		
CertificatePolicies	{id-ce 32}	Х	FALSE				
policyldentifier		Х		1.3.171.1.1.10.4	Fixed		
policyQualifiers				N/a			
policyQualifierId	{ id-qt-1 }	Х		CPS	Fixed		
Qualifier		Х		https://repository.luxtrust.lu	Fixed		
KeyUsage	{id-ce 15}	Х	TRUE⁵				
keyCertSign				Set	Fixed		
crlSign				Set	Fixed		
authorityKeyldentifier	{id-ce 35}	Х	FALSE				
Keyldentifier		Х		SHA-1 Hash of Authority public key			
subjectKeyldentifier	{id-ce 14}	Х	FALSE				
Keyldentifier		Х		SHA-1 Hash of Subject public key			
cRLDistributionPoints	{id-ce 31}	Х	FALSE				
distributionPoint							
FullName		Х		http://crl.luxtrust.lu/LTGRCAx ⁴ .crl	Fixed		
BasicConstraints	{id-ce 19}	Х	TRUE⁵	N/a			
CA		Х		TRUE	Fixed		
pathLenConstraint		Х		0 (Zero)	Fixed		

3.2.4 LuxTrust SSL CA

	LuxTrust SSL CA								
Base Profile	OID	Included	Critical	Value					
Version		Х		V3					
SerialNumber		Х		As provided by CA or by LuxTrust S.A.					
SignatureAlgorithm									
Algorithm	1.2.840.113549.1.1.11	Х		SHA256 with RSA Encryption	Fixed				
SignatureValue		Х		Issuing LTGRCA Signature					
Validity									
NotBefore		Х		Key Generation Process Date/Time					
NotAfter		Х		Key Generation Process Date/Time +up to 6 years	Fixed				
SubjectPublicKeyInfo		х		Public Key: Key length: 2048 up to 4096 bits (RSA); public exponent: Fermat-4 (=010001).					

 $^{^{6}}$ X is a sequential value to distinguish the old CA and the renewed CA. The value 1 is omitted as it is the first CA issued.



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LuxTrust SSL CA								
Base Profile	OID	Included	Critical	Value				
Issuer								
CountryName	{ id-at-6 }	Х		LU	Fixed			
CommonName	{ id-at-3 }	Х		LuxTrust Global Root x ²	Fixed			
organizationName		Х		LuxTrust S.A.	Fixed			
Subject								
CountryName	{ id-at-6 }	Х		LU	Fixed			
CommonName	{ id-at-3 }			LuxTrust SSL CA x ⁷	Fixed			
organizationName		Х		LuxTrust S.A.	Fixed			
CertificatePolicies	{id-ce 32}	Х	FALSE					
policyldentifier		Х		1.3.171.1.1.10.5	Fixed			
policyQualifiers				N/a				
policyQualifierId	{ id-qt-1 }	Х		CPS	Fixed			
Qualifier		Х		https://repository.luxtrust.lu	Fixed			
KeyUsage	{id-ce 15}	Х	TRUE⁵					
keyCertSign				Set	Fixed			
crlSign				Set	Fixed			
authorityKeyldentifier	{id-ce 35}	Х	FALSE					
Keyldentifier		Х		SHA-1 Hash of Authority public key				
authorityInfoAccess	{id-pe 1}		False	Noy				
AccessMethod	{Id-ad-1}							
accessLocation		х		http://ltgroot.ocsp.luxtrust.lu	Fixed			
AccessMethod	{Id-ad-2}		False					
accessLocation		х		http://ca.luxtrust.lu/LTGRCAx18.crt	Fixed			
subjectKeyldentifier	{id-ce 14}	Х	FALSE					
Keyldentifier		Х		SHA-1 Hash of Subject public key				
cRLDistributionPoints	{id-ce 31}	Х	FALSE					
distributionPoint								
FullName		Х		http://crl.luxtrust.lu/LTGRCAx4.crl	Fixed			
BasicConstraints	{id-ce 19}	Х	TRUE⁵	N/a				
CA		Х		TRUE	Fixed			
pathLenConstraint		Х		0 (Zero)	Fixed			

3.2.5 LuxTrust TEST CA

LuxTrust TEST CA						
Base Profile	OID	Included	Critical	Value		

 $^{^{7}}$ X is a sequential value to distinguish the old CA and the renewed CA. The value 1 is omitted as it is the first CA issued.



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VERSION 1.18

	LuxTrust TEST CA							
Base Profile	OID	Included	Critical	Value				
Version		Х		V3				
SerialNumber		Х		As provided by CA or by LuxTrust S.A.				
SignatureAlgorithm								
Algorithm	1.2.840.113549.1.1.11	Х		SHA256 with RSA Encryption	Fixed			
SignatureValue		Х		Issuing LTGRCA Signature				
Validity								
NotBefore		Х		Key Generation Process Date/Time				
NotAfter		Х		Key Generation Process Date/Time +up to 6 years	Fixed			
SubjectPublicKeyInfo		Х		Public Key: Key length: 2048 up to 4096 bits (RSA); public exponent: Fermat-4 (=010001).				
Issuer								
CountryName	{ id-at-6 }	Х		LU	Fixed			
CommonName	{ id-at-3 }	Х		LuxTrust Global Root x ²	Fixed			
organizationName		Х		LuxTrust S.A.	Fixed			
Subject								
CountryName	{ id-at-6 }	Х		LU	Fixed			
CommonName	{ id-at-3 }			LuxTrust TEST CA x ⁸	Fixed			
organizationName		Х		LuxTrust S.A.	Fixed			
CertificatePolicies	{id-ce 32}	Х	FALSE					
policyldentifier		Х		1.3.171.1.1.10.6	Fixed			
policyQualifiers				N/a				
policyQualifierId	{ id-qt-1 }	Х		CPS	Fixed			
Qualifier		Х		https://repository.luxtrust.lu	Fixed			
KeyUsage	{id-ce 15}	Х	TRUE⁵					
keyCertSign				Set	Fixed			
crlSign				Set	Fixed			
authorityKeyldentifier	{id-ce 35}	Х	FALSE					
Keyldentifier		Х		SHA-1 Hash of Authority public key				
subjectKeyldentifier	{id-ce 14}	Х	FALSE					
Keyldentifier		Х		SHA-1 Hash of Subject public key				
cRLDistributionPoints	{id-ce 31}	х	FALSE					
distributionPoint								
FullName		х		http://crl.luxtrust.lu/LTGRCA ⁴ .crl	Fixed			
BasicConstraints	{id-ce 19}	Х	TRUE⁵	N/A				

 $^{^{8}}$ X is a sequential value to distinguish the old CA and the renewed CA. The value 1 is omitted as it is the first CA issued.



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VERSION 1.18

LuxTrust TEST CA								
Base Profile	OID	Included	Critical	Value				
CA		X		TRUE	Fixed			
pathLenConstraint		Х		0 (Zero)	Fixed			

3.2.6 LuxTrust Internal CA

LuxTrust Internal CA							
Base Profile	OID	Included	Critical	Value			
Version		Х		V3			
SerialNumber		Х		As provided by CA or by LuxTrust S.A.			
SignatureAlgorithm							
Algorithm	1.2.840.113549.1.1.11	Х		SHA256 with RSA Encryption	Fixed		
SignatureValue		X		Issuing LTGRCA Signature			
Validity							
NotBefore		Х		Key Generation Process Date/Time			
NotAfter		Х		Key Generation Process Date/Time +up to 6 years	Fixed		
SubjectPublicKeyInfo		Х		Public Key: Key length: 2048 up to 4096 bits (RSA); public exponent: Fermat-4 (=010001).			
Issuer							
CountryName	{ id-at-6 }	Х		LU	Fixed		
CommonName	{ id-at-3 }	Х		LuxTrust Global Root x ²	Fixed		
organizationName		Х		LuxTrust S.A.	Fixed		
Subject							
CountryName	{ id-at-6 }	X		LU	Fixed		
CommonName	{ id-at-3 }			LuxTrust Internal CA x ⁹	Fixed		
organizationName		Х		LuxTrust S.A.	Fixed		
CertificatePolicies	{id-ce 32}	Х	FALSE				
policyldentifier		Х		1.3.171.1.1.10.7	Fixed		
policyQualifiers				N/a			
policyQualifierId	{ id-qt-1 }	Х		CPS	Fixed		
Qualifier		Х		https://repository.luxtrust.lu	Fixed		
KeyUsage	{id-ce 15}	Х	TRUE⁵				
keyCertSign				Set	Fixed		
crlSign				Set	Fixed		
digitalSignature				Set	Fixed		
nonRepudiation				Set	Fixed		
authorityKeyldentifier	{id-ce 35}	Х	FALSE				

 $^{^{9}}$ X is a sequential value to distinguish the old CA and the renewed CA. The value 1 is omitted as it is the first CA issued.



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	LuxTrust Internal CA						
Base Profile	OID	Included	Critical	Value			
Keyldentifier		Х		SHA-1 Hash of Authority public key			
subjectKeyldentifier	{id-ce 14}	Х	FALSE				
Keyldentifier		X		SHA-1 Hash of Subject public key			
cRLDistributionPoints	{id-ce 31}	X	FALSE				
distributionPoint							
FullName		X		http://crl.luxtrust.lu/LTGRCA ⁴ .crl	Fixed		
BasicConstraints	{id-ce 19}	Х	TRUE⁵	N/a			
CA		Х		TRUE	Fixed		
pathLenConstraint		X		0 (Zero)	Fixed		

3.2.7 LuxTrust TSA (Timestamping) CA

	LuxTrus	t Global ⁻	Timestan	nping CA	
Base Profile	OID	Included	Critical	Value	
Version		Х		V3	
SerialNumber		Х		As provided by CA or by LuxTrust S.A.	
SignatureAlgorithm					
Algorithm	1.2.840.113549.1.1.11	Х		SHA256 with RSA Encryption	Fixed
SignatureValue		Х		Issuing LTGRCA Signature	
Validity					
NotBefore		Х		Key Generation Process Date/Time	
NotAfter		Х		Key Generation Process Date/Time +up to 10 years	Fixed
SubjectPublicKeyInfo		х		Public Key: Key length: 2048 up to 4096 bits (RSA); public exponent: Fermat-4 (=010001).	
Issuer					
CountryName	{ id-at-6 }	Х		LU	Fixed
CommonName	{ id-at-3 }	Х		LuxTrust Global Root x ²	Fixed
organizationName		Х		LuxTrust S.A.	Fixed
Subject					
CountryName	{ id-at-6 }	Х		LU	Fixed
CommonName	{ id-at-3 }			LuxTrust Global Timestamping CA x ¹⁰	Fixed
organizationName		Х		LuxTrust S.A.	Fixed
CertificatePolicies	{id-ce 32}	Х	FALSE		
policyldentifier		X		1.3.171.1.1.10.8	Fixed
policyQualifiers				N/a	
policyQualifierId	{ id-qt-1 }	Х		CPS	Fixed

 $^{^{10}}$ X is a sequential value to distinguish the old CA and the renewed CA. The value 1 is omitted as it is the first CA issued.



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	LuxTrus	t Global 1	Timestan	nping CA	
Base Profile	OID	Included	Critical	Value	
Qualifier		X		https://repository.luxtrust.lu	Fixed
KeyUsage	{id-ce 15}	Х	TRUE⁵		
keyCertSign				Set	Fixed
crlSign				Set	Fixed
authorityKeyldentifier	{id-ce 35}	Х	FALSE		
Keyldentifier		Х		SHA-1 Hash of Authority public key	
subjectKeyldentifier	{id-ce 14}	Х	FALSE		
Keyldentifier		Х		SHA-1 Hash of Subject public key	
cRLDistributionPoints	{id-ce 31}	Х	FALSE		
distributionPoint					
FullName		Х		http://crl.luxtrust.lu/LTGRCA ⁴ .crl	Fixed
BasicConstraints	{id-ce 19}	Х	TRUE⁵	N/a	
CA		X		TRUE	Fixed
pathLenConstraint		X		0 (Zero)	Fixed

3.2.8 LuxTrust e-Government CA

LuxTrust eGovernment CA								
Base Profile	OID	Included	Critical	Value				
Version		Х		V3				
SerialNumber		Х		As provided by CA or by LuxTrust S.A.				
SignatureAlgorithm								
Algorithm	1.2.840.113549.1.1.11	Х		SHA256 with RSA Encryption	Fixed			
SignatureValue		Х		Issuing LTGRCA Signature				
Validity								
NotBefore		Х		Key Generation Process Date/Time				
NotAfter		Х		Key Generation Process Date/Time +up to 6 years	Fixed			
SubjectPublicKeyInfo		х		Public Key: Key length: 2048 up to 4096 bits (RSA); public exponent: Fermat-4 (=010001).				
Issuer								
CountryName	{ id-at-6 }	Х		LU	Fixed			
CommonName	{ id-at-3 }	Х		LuxTrust Global Root x ²	Fixed			
organizationName		Х		LuxTrust S.A.	Fixed			
Subject								
CountryName	{ id-at-6 }	Х		LU	Fixed			
CommonName	{ id-at-3 }			LuxTrust eGovernment CA x ¹¹	Fixed			

 $^{^{11}}$ X is a sequential value to distinguish the old CA and the renewed CA. The value 1 is omitted as it is the first CA issued.



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LuxTrust eGovernment CA								
Base Profile	OID	Included	Critical	Value				
organizationName		Х		LuxTrust S.A.	Fixed			
CertificatePolicies	{id-ce 32}	Х	FALSE					
policyIdentifier		Х		1.3.171.1.1.1.10.9	Fixed			
policyQualifiers				N/a				
policyQualifierId	{ id-qt-1 }	Х		CPS	Fixed			
Qualifier		Х		https://repository.luxtrust.lu	Fixed			
KeyUsage	{id-ce 15}	Х	TRUE⁵					
keyCertSign				Set	Fixed			
crlSign				Set	Fixed			
digitalSignature				Set	Fixed			
nonRepudiation				Set	Fixed			
authorityKeyldentifier	{id-ce 35}	Х	FALSE					
Keyldentifier		Х		SHA-1 Hash of Authority public key				
subjectKeyldentifier	{id-ce 14}	Х	FALSE					
Keyldentifier		Х		SHA-1 Hash of Subject public key				
cRLDistributionPoints	{id-ce 31}	Х	FALSE					
distributionPoint								
FullName		Х		http://crl.luxtrust.lu/LTGRCA ⁴ .crl	Fixed			
BasicConstraints	{id-ce 19}	Х	TRUE⁵	N/a				
CA		Х		TRUE	Fixed			
pathLenConstraint		Х		0 (Zero)	Fixed			

3.2.9 Certificate extensions

X.509 v3 extensions are supported and used as indicated in the Certificates profiles as described in the present document.

3.2.10 Algorithm object identifiers

Algorithms OID are conforming to IETF RFC 3279 and RFC 5280.

3.2.11 Name forms

Name forms are in the X.500 distinguished name form as implemented in RFC 3739.

3.2.12 Name constraints

Name constraints are supported as per RFC 5280.

3.2.13 Certificate policy object identifier

Certificate policy object identifiers are used as per RFC 3739.

3.2.14 Usage of Policy Constraints extension

Usage of Policy Constraints extension is supported as per RFC 5280.









3.2.15 Policy qualifiers syntax and semantics

The use of policy qualifiers defined in RFC 5280 is supported.

3.3 LuxTrust End-entity - Certificates profiles

3.3.1 Certificate profiles

Under the new LuxTrust Global root and associated CAs, multiple types of certificates will be issued.

For the purpose of integration with current devices such as the smartcard, the signing stick and signing server, the following five types of LuxTrust Certificates will be issued under the LuxTrust Global Qualified CA. They are respectively issued to three types of end-user devices according to the following:

- LuxTrust SSCD Smartcards: These physical user devices contain two certificates, associated to two different key pairs, according to two certificate policies
 - One LuxTrust QCP+¹² Qualified Certificate for Natural Persons for the purpose of creating qualified electronic signatures, under the Certificate Policy OID 1.3.171.1.10.3.1, and
 - One LuxTrust NCP+¹³ certificate for Natural Persons for the purpose of data/entity authentication and encryption facilities, under the Certificate Policy OID *1.3.171.1.1.10.3.2*.
- LuxTrust non SSCD Signing Sticks: These physical user devices that are not considered as SSCD according to [1]
 (e.g., SIM type chips unless they can be certified as SSCD) contain two certificates, associated to two different key pairs, according to two certificate policies
 - One LuxTrust QCP¹² Qualified Certificate for Natural Persons for the purpose of creating advanced electronic signatures supported by a qualified certificate, under the Certificate Policy OID 1.3.171.1.1.10.3.3, and
 - One LuxTrust NCP¹³ certificate for Natural Persons for the purpose of data/entity authentication and encryption facilities, under the Certificate Policy OID 1.3.171.1.10.3.4.
- LuxTrust Signing Server Accounts (Virtual Smartcards): These centralised virtual user signature creation devices
 contain one certificate, associated to one key pair, according to one specific certificate policy
 - One LuxTrust NCP¹³ certificate for Natural Persons for the combined purposes of electronic signature, data/entity authentication and encryption facilities, under the Certificate Policy OID *1.3.171.1.1.10.3.5*.

For the purpose of enabling Web-based data communication conduits via the TLS/SSL protocols and for verifying the authenticity of executable code, the following types of LuxTrust Certificates will be issued under the LuxTrust SSL CA:

- LuxTrust SSL/TLS Standard Server Certificates: SSL compliant ETSI TS 102 042 [4] Certificate not on SSCD Hardware token, under the Certificate OID Policy 1.3.171.1.10.5.1.
- LuxTrust SSL/TLS Extended Validation Server Certificates EVCP: SSL compliant ETSI TS 102 042 [4] Certificate not on SSCD Hardware token, under the Certificate OID Policy 1.3.171.1.1.10.5.2.
- LuxTrust SSL/TLS Extended Validation Server Certificates EVCP+: SSL compliant ETSI TS 102 042 [4] Certificate
 generated on Secure User Device, under the Certificate OID Policy 1.3.171.1.1.10.5.3.
- LuxTrust Object Signing (+) Certificates: Compliant ETSI TS 102 042 [4] Certificate not on SSCD Hardware token, under the Certificate OID Policy 1.3.171.1.1.10.5.4.

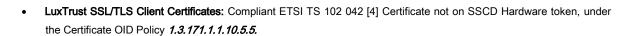
¹³ As defined in ETSI TS 102 042 (cf. [4]).



¹² As defined by ETSITS 101 456 (cf. [3]).







3.3.2 Version number(s)

X.509 v3 is supported and used.

3.3.3 LuxTrust SSCD QCP+ Certificates supporting Qualified Signatures

LuxTrust SSCD QCP+ Certificates supporting Qualified Signatures are Qualified Certificates issued on SSCD, with creation of the keys by LuxTrust CSP according to the enrolment and issuing process and procedures described in the applicable CP, with a 2048-bit key size and 3 years validity from issuing start date.

These LuxTrust SSCD QCP+ Certificates are compliant with and include the OID reference of the QCP+ certificate policy of the ETSI Technical Specifications 101 456 (i.e., 0.4.0.1456.1.1; cf. [3]).

The usage purpose of these LuxTrust SSCD QCP+ Certificates is limited to sole authorised usage of supporting the creation of qualified electronic signatures. The LuxTrust SSCD QCP+ Certificates include the corresponding LuxTrust QCP+ OID, i.e., < OID 1.3.171.1.1.10.3.1>.

The following table provides the description of the fields for LuxTrust SSCD QCP+ Certificates.

	LuxTrust SSCD QCP+ Certificate Profile										
Attribute	Field	IN¹4	CE ¹⁵	O/M ¹⁶	CO17	Value					
Base											
Profile											
Version		√	False								
					S	Version 3 Value = "2"					
SerialNumbe	r	✓	False								
					FDV	Validated on duplicates.					
signatureAlge	orithm	✓	False								
	Algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256 with					
						RSA Encryption.					
signatureValu	signatureValue		False								
					D	Issuing CA Signature.					
Issuer		√	False		S						
	countryName	√			S	LU					
	commonName	✓			S	LuxTrust Global Qualified CA x18					
	organizationName	√			S	LuxTrust S.A.					
Validity		✓	False								
	NotBefore	√			D	Certificate generation process date/time.					
	NotAfter	✓			D	Certificate generation process date/time + 36					
						Months					
Subject		√	False								
	serialNumber	✓		М	D	Serial Number as constructed by LRAO					

 $^{^{14}}$ IN = Included: Attribute / field included within the certificate profile.

¹⁸ X is a sequential value to distinguish the old CA and the renewed CA. The value 1 is omitted as it is the first CA issued.



¹⁵ CE = Critical Extension.

¹⁶ O/M: O = Optional, M = Mandatory.

¹⁷ CO = Content: S = Static, D = Dynamic, F = Formatted by CA, V = Validated by CA.





	Lux	rust SS	CD QC	CP+ Cei	rtifica	te Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
	commonName	✓		М	D	PRO and PRIVATE products: Concatenation of given name(s) and surname(s) as on ID card separated by a "Space" character.
	givenName	√		M	D	PRO and PRIVATE products: Given name(s) as on ID card
	surname	✓		М	D	PRO and PRIVATE products: Surname(s) as on ID card without indication "épouse", "ép." or similar and the subsequent name(s)
	countryName	√		М	D	Nationality of holder (ISO3166)
	emailAddress	✓		0	D	Subject's email address
	title	√		М	D	PRIVATE products: Fixed value: "Private Person" PRO products: "Professional Person" (default) or "Professional Administrator" (Other titles possible for special purpose certificates)
	organizationName	~		М	D	PRO products only: Name of company/institution as in articles of association or equivalent documents, including the legal form.
	localityName	✓		М	D	PRO products only: Company/institution country of HQ (as in articles of association)
	organizationalUnitName 1	~		M for PRO prod., conditional (O) for PRIV prod.)	D	PRO products: Company/Institution VAT number (or if no VAT number available, other unique national company/institution identifier) PRIVATE products: If the holder is underage: "Mineur jusqu'à: " & (Date of birth + 18 years).
	organizationalUnitName 2	✓		0	D	PRO products only: Company/institution department or other information item
subjectPublic	KeyInfo	✓	False			
-	Algorithm	√				Public Key: Key length: 2048bit (RSA); public
	subjectPublicKey	√		М		exponent: Fermat-4 (=010001).
Extensions						
Authority						
Properties	double on	√	Fals.			
authorityKeyl	denutier	·	False			







	LuxTrust SSCD QCP+ Certificate Profile										
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value					
	keyldentifier	*				SHA-1 Hash of the LuxTrust Global Qualified CA public key					
authorityInfo	Access	√	False								
	AccessMethod	√				Id-ad-2					
	accessLocation	√				http://ca.luxtrust.lu/LTGQCAx ¹⁸ .crt					
	AccessMethod	√				Id-ad-1					
	accessLocation	√				http://ocsp.luxtrust.lu					
cRLDistributi	onPoint	✓	False								
	distributionPoint	√			S						
	fullName	✓				http://crl.luxtrust.lu/LTGQCAx ¹⁸ .crl					
Subject Properties											
subjectAltNa	me	√	False								
-	Rfc822Name	✓		0	D	Certificate Holder's email address					
subjectKeyld	lentifier	√	False								
	keyldentifier	V			Fixed	The Key Identifier comprises a four-bit field with a 0100 value, followed by the least significant 60 bits of the SHA-1 hash of the value or subjectPublicKey bit string (tag, not including the length and number of unused bitstring bits).					
Policy Properties											
keyUsage		√	True								
	digitalSignature	✓			S	False					
	nonRepudiation	✓			S	True					
	keyEncipherment	√			S	False					
	dataEncipherment	√			S	False					
certificatePo	licies	✓	False								
	Policyldentifier	✓				1.3.171.1.1.10.3.1					
	policyQualifierID	√			S	Id-qt-1 (CPS)					
	qualifier	√			S	https://repository.luxtrust.lu					
	policyQualifierID	√			S	Id-qt-2 (User Notice)					
	noticeNumbers										
	DisplayText	✓				LuxTrust Qualified Certificate on SSCE compliant with ETSI TS 101 456 QCP+ certificate policy. Key Generation by CSP. Sole Authorised Usage: Support of Qualified Electronic Signature.					
	Policyldentifier	√				0.4.0.1456.1.1					
QualifiedCer	-										
	QcCompliance	√		М	S	0.4.0.1862.1.1					
	QcLimitValue			0	D	As provided by LuxTrust S.A. in compliance with [5]					
	QcRetentionPeriod			0	D	As provided by LuxTrust S.A. in compliance with [5]					







	LuxTrust SSCD QCP+ Certificate Profile									
Attribute	Field	IN¹4	CE ¹⁵	O/M ¹⁶	CO17	Value				
	QcSSCD	√		М	D	Set				

3.3.4 LuxTrust SSCD NCP+ Certificates supporting Authentication & Encryption

LuxTrust SSCD NCP+ Certificates are Normalised Certificates issued on SSCD Hardware token such as LuxTrust Smartcard with creation of the keys by LuxTrust CSP according to the enrolment and issuing process and procedures described in the applicable CP, with a 2048-bit key size and 3 years validity from issuing start date.

These LuxTrust SSCD NCP+ Certificates are compliant with and include the OID reference of the NCP+ certificate policy of the ETSI Technical Specifications 102 042 (i.e., 0.4.0.2042.1.2; cf. [4]).

The usage purpose of these LuxTrust SSCD NCP+ Certificates is for the combined purpose of authentication and encryption. These Certificates include the corresponding LuxTrust SSCD NCP+ OID, i.e., <OID 1.3.171.1.1.10.3.2>.

The following table provides the description of the fields for the LuxTrust SSCD NCP+ Certificate type supporting Authentication and Encryption.

	Lux	Trust S	SSCD N	NCP+ Ce	rtifica	te Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
Base Profile						
Version		√	False			
					S	Version 3 Value = "2"
SerialNumber	•	✓	False			
					FDV	Validated on duplicates.
signatureAlgo	rithm	✓	False			
	algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256 with
						RSA Encryption.
signatureValu	е	√	False			
					D	Issuing CA Signature.
issuer		√	False		S	
	countryName	✓			S	LU
	commonName	√			S	LuxTrust Global Qualified CA x ¹⁸
	organizationName	✓			S	LuxTrust S.A.
Validity		✓	False			
	NotBefore	✓			D	Certificate generation process date/time.
	NotAfter	√			D	Certificate generation process date/time + 36
						Months
subject		✓	False			
	serialNumber	✓		М	D	Serial Number as constructed by LRAO
	commonName	~		М	D	PRO and PRIVATE products: Concatenation of given name(s) and surname(s) as on ID card separated by a "Space" character
	givenName	✓		М	D	PRO and PRIVATE products: Given name(s) as on ID card







title	Field mame untryName nailAddress	IN ¹⁴ ✓ ✓	CE ¹⁵	M M O	D D D	Value PRO and PRIVATE products: Surname(s) as on ID card without indication "épouse", "ép." or similar and the subsequent name(s) Nationality of holder (ISO3166) Subject's email address PRIVATE products: Fixed value: "Private Person" PRO products: "Professional Person" (default) or "Professional Administrator"
title	untryName nailAddress	✓ ✓		M O	D D	on ID card without indication "épouse", "ép." or similar and the subsequent name(s) Nationality of holder (ISO3166) Subject's email address PRIVATE products: Fixed value: "Private Person" PRO products: "Professional Person" (default) or
title	aailAddress	✓		0	D	Subject's email address PRIVATE products: Fixed value: "Private Person" PRO products: "Professional Person" (default) or
title	9					PRIVATE products: Fixed value: "Private Person" PRO products: "Professional Person" (default) or
		√		М	D	Fixed value: "Private Person" PRO products: "Professional Person" (default) or
orga	ganizationName					(Other titles possible for special purpose certificates)
		✓		М	D	PRO products only: Name of company/institution as in articles of association or equivalent documents, including the legal form.
loca	alityName	√		М	D	PRO products only: Company/institution country of HQ (as in articles of association)
orga 1	ganizationalUnitName	✓		M for PRO prod., condi- tional (O) for PRIV prod.)	D	PRO products: Company/Institution VAT number (or if no VAT number available, other unique national company/institution identifier) PRIVATE products: If the holder is underage: "Mineur jusqu'à: " & (Date of birth + 18 years).
orga 2	ganizationalUnitName	√		0	D	PRO products only: Company/institution department or other information item
subjectPublicKeyInf	nfo	✓	False			
algo	orithm	√				Public Key: Key length: 2048 bit (RSA); public
subj	bjectPublicKey	✓		М		exponent: Fermat-4 (=010001).
Extensions						
Authority Properties						
authorityKeyIdentifier		√	False			
keyl	yldentifier	√				SHA-1 Hash of the LuxTrust Global Qualified CA public key
authorityInfoAccess	s	✓	False			
	cessMethod	✓				Id-ad-2
	accessLocation	✓				http://ca.luxtrust.lu/LTGQCAx ¹⁸ .crt
	cessMethod	✓				Id-ad-1







	LuxTrust SSCD NCP+ Certificate Profile									
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value				
	accessLocation	✓				http://ocsp.luxtrust.lu				
cRLDistributionPoint		✓	False							
	distributionPoint	✓			S					
	fullName	✓				http://crl.luxtrust.lu/LTGQCAx ¹⁸ .crl				
Subject Properties										
subjectAltNan	ne	✓	False							
	Rfc822Name	✓		0	D	Certificate Holder's email address				
subjectKeylde	entifier	✓	False							
	keyldentifier	V			Fixed	The Key Identifier comprises a four-bit field with a 0100 value, followed by the least significant 60 bits of the SHA-1 hash of the value or subjectPublicKey bit string (tag, not including the length and number of unused bit-string bits).				
Policy Properties										
keyUsage		✓	True							
	digitalSignature	✓			S	True				
	nonRepudiation				S	False				
	keyEncipherment	✓			S	True				
	dataEncipherment	✓			S	True				
certificatePoli	cies	✓	False							
	Policyldentifier	√				1.3.171.1.1.10.3.2				
	policyQualifierID	√			S	Id-qt-1 (CPS)				
	qualifier	√			S	https://repository.luxtrust.lu				
	policyQualifierID	√			S	Id-qt-2 (User Notice)				
	noticeNumbers									
	DisplayText	Ť				LuxTrust Certificate on SSCD compliant with ETSI TS 102 042 NCP+ certificate policy. Key Generation by CSP. Sole Authorised Usage: Data or Entity				
	Policyldentifier	√				Authentication and Data Encryption. 0.4.0.2042.1.2				

3.3.5 LuxTrust non SSCD QCP Certificates supporting Advanced Electronic Signatures

LuxTrust non SSCD QCP Certificates are Qualified Certificates **not** issued on SSCD, with creation of the keys by LuxTrust CSP according to the enrolment and issuing process and procedures described in the applicable CP, with 2048-bit key size and 3 years validity from issuing start date.

These LuxTrust non SSCD QCP Certificates are compliant with and include the OID reference of the QCP certificate policy of the ETSI Technical Specifications 101 456 (i.e., 0.4.0.1456.1.2; cf. [3]).







The usage purpose of these Certificates is limited to sole authorised usage of supporting the creation of non-qualified (advanced) electronic signatures supported by a qualified certificate. These Certificates include the corresponding LuxTrust QCP OID, i.e., < OID 1.3.171.1.1.10.3.3>.

The following table provides the description of the fields for LuxTrust non SSCD QCP Certificates.

	LuxTrust non SSCD QCP Certificate Profile										
Attribute	Field	IN¹4	CE ¹⁵	O/M ¹⁶	CO17	Value					
Base Profile											
Version		✓	False								
					S	Version 3 Value = "2"					
SerialNumbe	er	✓	False								
					FDV	Validated on duplicates.					
signatureAlg	orithm	✓	False								
	Algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256 with RSA Encryption.					
signatureVal	lue	✓	False								
					D	Issuing CA Signature.					
Issuer		✓	False		S						
	countryName	✓			S	LU					
	commonName	✓			S	LuxTrust Global Qualified CA x ¹⁸					
	organizationName	✓			S	LuxTrust S.A.					
Validity		✓	False								
	NotBefore	✓			D	Certificate generation process date/time.					
	NotAfter	~			D	Certificate generation process date/time + 36 Months					
Subject		✓	False								
	serialNumber	✓		М	D	Serial Number as constructed by LRAO					
	commonName	~		М	D	PRO and PRIVATE products: Concatenation of given name(s) and surname(s) as on ID card separated by a "Space" character					
	givenName	✓		М	D	PRO and PRIVATE products: Given name(s) as on ID card					
	surname	✓		М	D	PRO and PRIVATE products: Surname(s) as on ID card without indication "épouse", "ép." or similar and the subsequent name(s)					
	countryName	✓		М	D	Nationality of holder (ISO3166)					
	emailAddress	✓		0	D	Subject's email address					







	LuxTı	rust n	on SS	CD QCP	Certif	icate Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value
	Title	*		М	D	PRIVATE products: Fixed value: "Private Person" PRO products: "Professional Person" (default) or "Professional Administrator" (Other titles possible for special purpose certificates)
	organizationName	>		М	D	PRO products only: Name of company/institution as in articles of association or equivalent documents, including the legal form.
	localityName	√		М	D	PRO products only: Company/institution country of HQ (as in articles of association)
	organizationalUnitName 1	√		M for PRO prod., conditional (O) for PRIV prod.)	D	PRO products: Company/Institution VAT number (or if no VAT number available, other unique national company/institution identifier) PRIVATE products: If the holder is underage: "Mineur jusqu'à: " & (Date of birth + 18 years).
	organizationalUnitName 2	~		0	D	PRO products only: Company/institution department or other information item
subj	jectPublicKeyInfo	✓	False			
	Algorithm subjectPublicKey	✓		M		Public Key: Key length: 2048 bit (RSA); public exponent: Fermat-4 (=010001).
Extensions						
Authority Pro	pperties					
authorityKey	Identifier	✓	False			
	keyldentifier	✓				SHA-1 Hash of the LuxTrust Qualified CA public key
authorityInfo	Access	✓	False			
	AccessMethod	✓				ld-ad-2
	accessLocation	✓				http://ca.luxtrust.lu/LTGQCAx ¹⁸ .crt
	AccessMethod	√				ld-ad-1
	accessLocation	✓				http://ocsp.luxtrust.lu







	LuxI	rust n	ion SS	CD QCP	Certii	ficate Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
cRLDistribut	tionPoint	✓	False			
	distributionPoint	✓			S	
	fullName	✓				http://crl.luxtrust.lu/LTGQCAx ¹⁸ .crl
Subject Pro	perties					
subjectAltNa	ame	✓	False			
	Rfc822Name	√		0	D	Certificate Holder's email address
subjectKeylo	dentifier	✓	False			
	keyldentifier	√			Fixed	The Key Identifier comprises a four-bit field with a 0100 value, followed by the least significant 60 bits of the SHA-1 hash of the value of subjectPublicKey bit string (tag, not including the length and number of unused bit-string bits).
Policy Prope	erties					
keyUsage		✓	True			
	digitalSignature	✓			S	False
	nonRepudiation	✓			S	True
	keyEncipherment	√			S	False
	dataEncipherment	✓			S	False
certificatePo	blicies	✓	False			
	Policyldentifier	✓				1.3.171.1.1.10.3.3
	policyQualifierID	√			S	Id-qt-1 (CPS)
	qualifier	√			S	https://repository.luxtrust.lu
	policyQualifierID	√			S	Id-qt-2 (User Notice)
	noticeNumbers					
	DisplayText	*				LuxTrust Qualified Certificate not on SSCI compliant with ETSI TS 101 456 QCP certificate policy. Key Generation by CSP. Sole Authorised Usage : Advanced Electronic Signature supported by a Qualified cert
	Policyldentifier	✓				0.4.0.1456.1.2
QualifiedCe	rtificateStat					
	QcCompliance	✓		М	S	0.4.0.1862.1.1
	QcLimitValue			0	D	As provided by LuxTrust S.A. in compliance witl [5]







	LuxTrust non SSCD QCP Certificate Profile									
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value				
	QcRetentionPeriod			0	D	As provided by LuxTrust S.A. in compliance with [5]				
	QcSSCD	✓				NOT SET				

3.3.6 LuxTrust non SSCD NCP Certificates supporting Authentication & Encryption

LuxTrust non SSCD NCP Certificates are Normalised Certificates **not** issued on SSCD Hardware token with creation of the keys by LuxTrust CSP according to the enrolment and issuing process and procedures described in the applicable CP, with a 2048-bit key size and 3 years validity from issuing start date.

These LuxTrust non SSCD NCP Certificates are compliant with and include the OID reference of the NCP certificate policy of the ETSI Technical Specifications 102 042 (i.e., 0.4.0.2042.1.1; cf. [4]).

The usage purpose of these NCP Certificates is for the combined purpose of authentication and encryption. These Certificates include the corresponding LuxTrust non SSCD NCP OID, i.e., <OID 1.3.171.1.1.10.3.4>.

The following table provides the description of the fields for the LuxTrust non SSCD NCP Authentication and Encryption Certificate type.

	LuxTrust non SSCD NCP Certificate Profile									
Attribute	Field	IN¹4	CE ¹⁵	O/M ¹⁶	CO17	Value				
Base										
Profile										
Version		✓	False							
					S	Version 3 Value = "2"				
SerialNumb	er	✓	False							
					FDV	Validated on duplicates.				
signatureAlg	gorithm	✓	False							
	algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256				
						with RSA Encryption.				
signatureVa	signatureValue		False							
					D	Issuing CA Signature.				
issuer		√	False		S					
	countryName	√			S	LU				
	commonName	✓			S	LuxTrust Global Qualified CA x ¹⁸				
	organizationName	√			S	LuxTrust S.A.				
Validity		√	False							
	NotBefore	✓			D	Certificate generation process date/time.				
	NotAfter	✓			D	Certificate generation process date/time +				
						36 Months				
subject		✓	False							
	serialNumber	✓		М	D	Serial Number as constructed by LRAO				







	LuxTrust	non S	SCD N	ICP Cer	tificat	e Profile
Attribute	Field	IN¹4	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
	commonName	✓		М	D	PRO and PRIVATE products: Concatenation of given name(s) and surname(s) as on ID card separated by a "Space" character
	givenName	✓		M	D	PRO and PRIVATE products: Given name(s) as on ID card
	surname	✓		М	D	PRO and PRIVATE products: Surname(s) as on ID card without indication "épouse", "ép." or similar and the subsequent name(s)
	countryName	✓		М	D	Nationality of holder (ISO3166)
	emailAddress	✓		0	D	Subject's email address
	title	√		М	D	PRIVATE products: Fixed value: "Private Person" PRO products: "Professional Person" (default) or "Professional Administrator" (Other titles possible for special purpose certificates)
	organizationName	✓		М	D	PRO products only: Name of company/institution as in articles of association or equivalent documents, including the legal form.
	localityName	✓		М	D	PRO products only: Company/institution country of HQ (as in articles of association)
	organizationalUnitName 1	·		M for PRO prod., conditional (O) for PRIV prod.)	D	PRO products: Company/Institution VAT number (or if no VAT number available, other unique national company/institution identifier) PRIVATE products: If the holder is underage: "Mineur jusqu'à:" & (Date of birth + 18 years).
	organizationalUnitName 2	~		0	D	PRO products only: Company/institution department or other information item
subjectPublic	cKeyInfo	✓	False			
	algorithm	√				Public Key: Key length: 2048 bit (RSA);
	subjectPublicKey	√		М		public exponent: Fermat-4 (=010001).
Extensions						







	LuxTru	st non S	SCD N	ICP Cer	tificat	e Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
Authority						
Properties						
authorityKey		√	False			
	keyldentifier	✓				SHA-1 Hash of the LuxTrust Qualified CA
		✓				public key
authorityInfo		· ·	False			
	AccessMethod	V				Id-ad-2
	accessLocation	· ·				http://ca.luxtrust.lu/LTGQCAx ¹⁸ .crt
	AccessMethod	· ·				Id-ad-1
	accessLocation	· ·				http://ocsp.luxtrust.lu
cRLDistribut	1	· ·	False			
	distributionPoint	· ·			S	
	fullName	, ,				http://crl.luxtrust.lu/LTGQCAx ¹⁸ .crl
Subject						
Properties		✓	Га			
subjectAltNa		· ·	False			
11 42 1	Rfc822Name	· ·		0	D	Certificate Holder's email address
subjectKeylo		· ·	False		Fire d	
	keyldentifier				Fixed	The Key Identifier comprises a four-bi
						field with a 0100 value, followed by the
						least significant 60 bits of the SHA-1 hash
						of the value or subjectPublicKey bit string
						(tag, not including the length and number of unused bit-string bits).
Policy						of unused bit-string bits).
Properties						
keyUsage		√	True			
	digitalSignature	✓			S	True
	nonRepudiation				S	False
	keyEncipherment	✓			S	True
	dataEncipherment	√			S	True
certificatePo	licies	√	False			
	Policyldentifier	✓				1.3.171.1.1.10.3.4
	policyQualifierID	✓			S	Id-qt-1 (CPS)
	qualifier	√			S	https://repository.luxtrust.lu
	policyQualifierID	✓			S	Id-qt-2 (User Notice)
	noticeNumbers					
	DisplayText	√				LuxTrust Certificate not on SSCE
						compliant with ETSI TS 102 042 NCP
						certificate policy. Key Generation by CSP.
						Sole Authorised Usage: Data or Entity
						Authentication and Data Encryption.







	LuxTrust non SSCD NCP Certificate Profile								
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value			
	Policyldentifier	✓				0.4.0.2042.1.1			

3.3.7 LuxTrust Signing Server Account NCP Certificates supporting Signature, Authentication & Encryption

LuxTrust Signing Server Account NCP Certificates are Normalised Certificates **not** issued on SSCD Hardware token with creation of the keys by LuxTrust CSP according to the enrolment and issuing process and procedures described in the applicable CP, with a 2048-bit key size and 3 years validity from issuing start date.

These LuxTrust Signing Server Account NCP Certificates are compliant with and include the OID reference of the NCP certificate policy of the ETSI Technical Specifications 102 042 (i.e., 0.4.0.2042.1.1; cf. [4]).

The usage purpose of these Certificates is for the combined purpose of electronic signature, authentication and encryption. These Certificates include the corresponding LuxTrust Signing Server Account NCP OID, i.e., <OID 1.3.171.1.1.10.3.5>.

The following table provides the description of the fields for the LuxTrust Signing Server Account NCP Signature, Authentication and Encryption Certificate type.

Note: Due to technical constraints within the Signing Server, the signature algorithm will be SHA1WithRsa instead of SHA256WithRsa.

	LuxTrust Signing Server NCP Certificate Profile								
Attribute	Field	IN¹4	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value			
Base									
Profile									
Version		✓	False						
					S	Version 3 Value = "2"			
SerialNumb	er	✓	False						
					FDV	Validated on duplicates.			
signatureAl	gorithm	✓	False						
	algorithm				S	OID = "1.2.840.113549.1.1.5" - SHA1 with			
						RSA Encryption.			
signatureVa	lue	✓	False						
					D	Issuing CA Signature.			
Issuer		✓	False		S				
	countryName	✓			S	LU			
	commonName	✓			S	LuxTrust Global Qualified CA x18			
	organizationName	✓			S	LuxTrust S.A.			
Validity		✓	False						
	NotBefore	✓			D	Certificate generation process date/time.			
	NotAfter	✓			D	Certificate generation process date/time +			
						36 Months			
subject		✓	False						
	serialNumber	✓		М	D	Serial Number as constructed by LRAO			







	LuxTrust Sig	gning	Serve	r NCP C	Certific	ate Profile
Attribute	Field	IN¹4	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
	commonName	✓		M	D	PRO and PRIVATE products: Concatenation of given name(s) and surname(s) as on ID card separated by a "Space" character
	givenName	✓		M	D	PRO and PRIVATE products: Given name(s) as on ID card
	surname	✓		М	D	PRO and PRIVATE products: Surname(s) as on ID card without indication "épouse", "ép." or similar and the subsequent name(s)
	countryName	✓		M	D	Nationality of holder (ISO3166)
	emailAddress	✓		0	D	Subject's email address
	title	~		М	D	PRIVATE products: Fixed value: "Private Person" PRO products: "Professional Person" (default) or "Professional Administrator" (Other titles possible for special purpose certificates)
	organizationName	√		М	D	PRO products only: Name of company/institution as in articles of association or equivalent documents, including the legal form.
	localityName	√		М	D	PRO products only: Company/institution country of HQ (as in articles of association)
	organizationalUnitName 1	·		M for PRO prod., conditional (O) for PRIV prod.)	D	PRO products: Company/Institution VAT number (or if no VAT number available, other unique national company/institution identifier) PRIVATE products: If the holder is underage: "Mineur jusqu'à:" & (Date of birth + 18 years).
	organizationalUnitName 2	✓ ✓		0	D	PRO products only: Company/institution department or other information item
subjectPublic	subjectPublicKeyInfo					
	algorithm	✓				Public Key: Key length: 2048 bit (RSA);
	subjectPublicKey	√		М		public exponent: Fermat-4 (=010001).
Extensions						







	Luxirusi	Signing	Serve	r NCP (ertific	ate Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
Authority						
Properties						
authorityKey	/Identifier	✓	False			
	keyldentifier	✓				SHA-1 Hash of the LuxTrust Globa
						Qualified CA public key
authorityInfo	Access	√	False			
	AccessMethod	√				Id-ad-2
	accessLocation	√				http://ca.luxtrust.lu/LTGQCAx 18.crt
	AccessMethod	√				Id-ad-1
	accessLocation	√				http://ocsp.luxtrust.lu
cRLDistribut	tionPoint	✓	False			
	distributionPoint	✓			S	
	fullName	✓				http://crl.luxtrust.lu/LTGQCA ¹⁸ .crl
Subject						
Properties						
subjectAltNa	ame	√	False			
	Rfc822Name	√		0	D	Certificate Holder's email address
subjectKeylo	dentifier	✓	False			
	keyldentifier	✓			Fixed	The Key Identifier comprises a four-b
						field with a 0100 value, followed by th
						least significant 60 bits of the SHA-1 has
						of the value or subjectPublicKey bit string
						(tag, not including the length and number
						of unused bit-string bits).
Policy						
Properties						
keyUsage	1	√	True			
	digitalSignature	~			S	True
	nonRepudiation				S	True
	keyEncipherment	√			S	True
	dataEncipherment	✓			S	True
certificatePo	licies	✓	False			
	Policyldentifier	✓				1.3.171.1.1.10.3.5
	policyQualifierID	✓			S	Id-qt-1 (CPS)
	qualifier	✓			S	https://repository.luxtrust.lu
	policyQualifierID	✓			S	Id-qt-2 (User Notice)
	noticeNumbers					
	DisplayText	✓				LuxTrust Certificate not on SSCI
						compliant with ETSI TS 102 042 NCF
						certificate policy. Key Generation by CSP.
						Sole Authorised Usage: Signature, Data of
						Entity Authentication and Data Encryption







	LuxTrust Signing Server NCP Certificate Profile								
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value			
	PolicyIdentifier	✓				0.4.0.2042.1.1			

3.3.8 LuxTrust NCP+ Certificates supporting Mass Signature Services

LuxTrust NCP+ Certificates for Advanced Mass Signature Services are Normalised Certificates certified as generated on Secure User Device, with creation of the keys by the Subscriber, with 2048-bit key size and 3 years validity from issuing start date.

These LuxTrust Secure User Device NCP+ Certificates are compliant with and include the OID reference of the NCP+ certificate policy of the ETSI Technical Specifications 102 042 (i.e., 0.4.0.2042.1.2; cf. [4]).

The usage purpose of these Certificates is limited to sole authorised usage of supporting the creation of non-qualified (advanced) electronic signatures supported by a normalised certificate for Mass Signature purposes. These Certificates include the corresponding LuxTrust NCP+ OID, i.e., < OID 1.3.171.1.1.10.3.6>.

The following table provides the description of the fields for LuxTrust Secure User Device NCP+ Certificates.

LuxTrust non	SSCD NCP+ Public (Certi	ficate	Profil	e for	Mass Signature Services
Attribute	Field	IN¹4	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
Base Profile		✓				
Version	Version		False			
					S	Version 3 Value = "2"
SerialNumber		✓	False			
					FDV	Validated on duplicates.
signatureAlgorithm		√	False			
	algorithm				S	OID = "1.2.840.113549.1.1.11" -
						SHA256 with RSA Encryption
signatureValue		✓	False			
					D	Issuing CA Signature.
Issuer		√	False		S	
	countryName	✓			S	LU
	commonName	√			S	LuxTrust Global Qualified CA x ¹⁸
	organizationName	✓			S	LuxTrust S.A.
Validity		✓	False			
	NotBefore	√			D	Certificate generation process
						date/time.
	NotAfter	✓			D	Certificate generation process
						date/time + 36 Months
subject	T	√	False			
	commonName	✓		М	D	Names as in articles of association, including the legal form (as specified in the memorandum and articles of association or an equivalent document)
	countryName	✓		M	D	Country in which the organization's registered office is established (as specified in the memorandum and articles of association). (ISO3166)







LuxTrust non	SSCD NCP+ Public (Certi	ficate	Profil	e for	Mass Signature Services
Attribute	Field	IN¹4	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
	stateOrProvinceName	✓		0	D	
	emailAddress	✓		0	D	Subject's email address if available
	organizationName	√		М	D	Names as in articles of association, including the legal form (as specified in the memorandum and articles of association or an equivalent document)
	localityName	~		М	D	Location in which the organization's registered office is established (as specified in the memorandum and articles of association or an equivalent document)
	organizationalUnitName 1	✓		0	D	As provided by Subscriber
	organizationalUnitName 2	✓		0	D	As provided by Subscriber
subjectPublicKeyInfo		√	False			
	algorithm	V				Public Key: Key length: 2048 bit (RSA);
	subjectPublicKey	√		M		public exponent: Fermat-4 (=010001).
Extensions						
Authority Properties		√				
authorityKeyIdentifier	keyldentifier	✓	False			SHA-1 Hash of the LuxTrust Global Qualified CA public key
authorityInfoAccess		√	False			
	AccessMethod	√				Id-ad-2
	accessLocation	√				http://ca.luxtrust.lu/LTGQCAx ¹⁸ .crt
	AccessMethod	✓				ld-ad-1
	accessLocation	✓				http://ocsp.luxtrust.lu
cRLDistributionPoint		√	False			
	distributionPoint	✓ ✓			S	18
0.11.45	fullName	V				http://crl.luxtrust.lu/LTGQCAx 18.crl
Subject Properties		✓	Fola :			
subjectAltName	Dfo922No	<i>'</i>	False	0	D	Cortificato Holder's email - dele
auhiaetKayldantifiar	Rfc822Name	√	Ealan	0	U	Certificate Holder's email address
subjectKeyIdentifier	keyldentifier	✓	False		Fixed	The Key Identifier comprises a four-bit field with a 0100 value, followed by the least significant 60 bits of the SHA-1 hash of the value or subjectPublicKey bit string (tag, not including the length and number of unused bit-string bits).
Policy Properties						
keyUsage		√	True			







LuxTrust non	SSCD NCP+ Public (Certi	ficate	Profil	e for	Mass Signature Services
Attribute	Field	IN¹4	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
	digitalSignature	✓			S	False
	nonRepudiation				S	True
	keyEncipherment	✓			S	False
	ReyEncipherment					T disc
	dataEncipherment	✓			S	False
certificatePolicies		✓	False			
	Policyldentifier	✓				1.3.171.1.1.10.3.6
	policyQualifierID	√			S	Id-qt-1 (CPS)
	qualifier	√			S	https://repository.luxtrust.lu
	policyQualifierID	√			S	Id-qt-2 (User Notice)
	noticeNumbers					
	DisplayText	✓				LuxTrust Certificate on Secure User
						Device compliant with ETSI TS 102
						042 NCP+ certificate policy. Key
						Generation by CSP.
						Sole Authorised Usage: Advanced
						electronic massive signature services.
						GTC, CP and CPS on
						http://repository.luxtrust.lu.
	PolicyIdentifier	√				0.4.0.2042.1.2

3.3.9 LuxTrust SSCD LCP+ Integration Certificates supporting Electronic Signatures

LuxTrust SSCD LCP+ Certificates supporting Qualified Signatures are Certificates issued on SSCD, with creation of the keys by LuxTrust CSP according to the enrolment and issuing process and procedures described in the applicable CP, with a 2048-bit key size and 3 years validity from issuing start date.

These LuxTrust SSCD LCP+ Certificates are compliant with and include the OID reference of the LCP+ certificate policy of the ETSI Technical Specifications 102 042 (i.e., 0.4.0.2042.1.3; cf. [4]).

The usage purpose of these LuxTrust SSCD LCP+ Certificates is limited to sole authorised usage of supporting the creation of Integration electronic signatures for system integration purposes with non-repudiation signatures. The LuxTrust SSCD LCP+ Certificates include the corresponding LuxTrust OID, i.e., < OID 1.3.171.1.1.10.3.7>.

The following table provides the description of the fields for LuxTrust SSCD LCP Certificates.

	LuxTrust SSCD LCP+ Integration Certificate Profile									
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value				
Base										
Profile										
Version		✓	False							
					S	Version 3 Value = "2"				
SerialNumber	SerialNumber		False							
					FDV	Validated on duplicates.				







	LuxTrus	st SSCD	LCP+ I	ntegra	tion C	ertificate Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value
signatureAlgo	orithm	✓	False			
	Algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256 with RSA Encryption.
signatureValu	ue	✓	False			
					D	Issuing CA Signature.
Issuer	1	✓	False		S	
	countryName	√			S	LU
	commonName	√			S	LuxTrust Global Qualified CA x ¹⁸
	organizationName	√			S	LuxTrust S.A.
Validity	1	✓	False			
	NotBefore	√			D	Certificate generation process date/time.
	NotAfter	√			D	Certificate generation process date/time + 36 Months
Subject		√	False			
	serialNumber	✓		М	D	Serial Number as constructed by LRAO
	commonName	✓		М	D	LGQCA XX SC PRI V3 (XX a number selected internally by LuxTrust)
	givenName	✓		М	D	LGQCA XX (XX a number selected internally by LuxTrust)
	surname	√		М	D	SC PRI V3
	countryName	✓		М	D	LU
	emailAddress	✓		0	D	N/A
	title	√		М	D	Private Person
subjectPublic	KeyInfo	✓	False			
	Algorithm	✓				Public Key: Key length: 2048bit (RSA); public
	subjectPublicKey	✓		М		exponent: Fermat-4 (=010001).
Extensions						
Authority Properties						
authorityKeyl	dentifier	✓	False			
	keyldentifier	~				SHA-1 Hash of the LuxTrust Global Qualified CA public key
authorityInfo	l Access	√	False			or a public recy
addionty iiiiO/	AccessMethod	√	1 0130			Id-ad-2
	accessLocation	√				http://ca.luxtrust.lu/LTGQCAx ¹⁸ .crt
	AccessMethod	√				Id-ad-1
	accessLocation	√	+			http://ocsp.luxtrust.lu
cRLDistribution		✓	False			пири/осориахи изили
	distributionPoint	√	i aise		S	
	fullName	√	1		3	http://crl.luxtrust.lu/LTGQCAx ¹⁸ .crl
Subject	Tumvarrie					http://ornidxtrust.iu/ETGQCAX .CII
Properties						
subjectAltNa	me	✓	False			





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Attribute	Field	IN¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
	Rfc822Name	▼		0	D	N/A
subjectKeylo			False			
	keyldentifier	•			Fixed	The Key Identifier comprises a four-bit field with
						a 0100 value, followed by the least significan
						60 bits of the SHA-1 hash of the value of
						subjectPublicKey bit string (tag, not including
						the length and number of unused bit-string bits
Policy						
Properties		<u> </u>				
keyUsage	T	→	True			
	digitalSignature				S	False
	nonRepudiation	√			S	True
	keyEncipherment	√			S	False
	dataEncipherment	√			S	False
certificatePo	licies	✓	False			
	Policyldentifier	✓				1.3.171.1.1.10.3.7
	policyQualifierID	✓			S	Id-qt-1 (CPS)
	qualifier	✓			S	https://repository.luxtrust.lu
	policyQualifierID	✓			S	Id-qt-2 (User Notice)
	noticeNumbers					
	DisplayText	✓				LuxTrust INTEGRATION CERTIFICATE o
						SSCD compliant with ETSI TS 102 042 LCP
						certificate policy. Key Generation by CSP. Sol
						Authorised Usage: Support of Integratio
						Electronic Signature.
	Policyldentifier	✓				0.4.0.2042.1.3
QualifiedCer	tificateStat					
	QcCompliance	✓		0	S	Not Set
	QcLimitValue	✓		0	D	Not Set
	QcRetentionPeriod	✓		0	D	Not Set
	QcSSCD	✓		М	D	Set

3.3.10 LuxTrust SSCD LCP+ Integration Certificates supporting Authentication & Encryption

LuxTrust SSCD LCP+ Certificates are Normalised Certificates issued on SSCD Hardware token such as LuxTrust Smartcard with creation of the keys by LuxTrust CSP according to the enrolment and issuing process and procedures described in the applicable CP, with a 2048-bit key size and 3 years validity from issuing start date.

These LuxTrust SSCD LCP+ Certificates are compliant with and include the OID reference of the LCP+ certificate policy of the ETSI Technical Specifications 102 042 (i.e., 0.4.0.2042.1.3; cf. [4]).

The usage purpose of these LuxTrust SSCD LCP+ Certificates is for the combined purpose of authentication and encryption. These Certificates include the corresponding LuxTrust SSCD LCP+ OID, i.e., <OID 1.3.171.1.1.10.3.8>.

The following table provides the description of the fields for the LuxTrust SSCD LCP+ Certificate type supporting Authentication and Encryption.







	LuxTrust	SSCD	LCP+ 1	integra	tion Ce	ertificate Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
Base Profile						
Version		√	False			
					S	Version 3 Value = "2"
SerialNumber		√	False			
					FDV	Validated on duplicates.
signatureAlgo	rithm	✓	False			
	algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256 with
						RSA Encryption.
signatureValu	le	✓	False			
					D	Issuing CA Signature.
issuer	<u>l</u>	✓	False		S	
	countryName	✓			S	LU
	commonName	✓			S	LuxTrust Global Qualified CA x ¹⁸
	organizationName	✓			S	LuxTrust S.A.
Validity	Jan	✓	False			
	NotBefore	✓	. 4.50		D	Certificate generation process date/time.
	NotAfter	✓			D	Certificate generation process date/time + 36
	Nobalci					Months
subject		✓	False			World
Jubject	T		1 alsc		_	
	serialNumber	√		М	D	Serial Number as constructed by LRAO
					_	LGQCA XX SC PRI V3 (XX a number selected
	commonName	√		М	D	internally by LuxTrust)
						LCOCA VV VV a number calculated intermally
	givenName	✓		М	D	LGQCA XX (XX a number selected internally by LuxTrust)
						by Lux Husty
	surname	✓		М	D	SC PRI V3
	countryName	√		М	D	LU
	- Country Name					
	emailAddress	✓		0	D	N/A
	title	✓		М	D	Private Person
subjectPublic	 	✓	False			
Subjecti ublic	algorithm	✓	1 alse			Public Key: Key length: 2048 bit (RSA); public
		✓		М		exponent: Fermat-4 (=010001).
Extensions	subjectPublicKey			IVI		exponent remates (=010001).
Authority Properties						
authorityKeylo	dentifier	✓	False			
aumomykeyl		√	raise			SHA 1 Hoph of the LuxTrust Clahal Qualified
	keyldentifier					SHA-1 Hash of the LuxTrust Global Qualified
outborth dut - A		✓	Falsa			CA public key
authorityInfoA		· ·	False			ld ad 2
	AccessMethod	· ·				Id-ad-2
	accessLocation	\ \ \ \ \				http://ca.luxtrust.lu/LTGQCAx ¹⁸ .crt
	AccessMethod	\ \ \ \ \				Id-ad-1
	accessLocation	V	_			http://ocsp.luxtrust.lu
cRLDistributio	onPoint	V	False			





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	LuxTrust	SSCD I	_CP+ I	ntegra	tion Ce	ertificate Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
	distributionPoint	√			S	
	fullName	✓				http://crl.luxtrust.lu/LTGQCAx 18.crl
Subject						
Properties						
subjectAltNan	ne	✓	False			
	Rfc822Name	√		0	D	N/A
subjectKeylde	entifier	✓	False			
	keyldentifier	~			Fixed	The Key Identifier comprises a four-bit field with
						a 0100 value, followed by the least significant
						60 bits of the SHA-1 hash of the value or
						subjectPublicKey bit string (tag, not including
						the length and number of unused bit-string
						bits).
Policy						
Properties						
keyUsage	T	✓	True			
	digitalSignature	✓			S	True
	nonRepudiation				S	False
	keyEncipherment	✓			s	True
	dataEncipherment	✓			S	True
certificatePolic	cies	√	False			
	Policyldentifier	✓				1.3.171.1.1.10.3.8
	policyQualifierID	✓			S	Id-qt-1 (CPS)
	qualifier	√			S	https://repository.luxtrust.lu
	policyQualifierID	✓			S	Id-qt-2 (User Notice)
	noticeNumbers					
	DisplayText	✓				LuxTrust INTEGRATION CERTIFICATE on
						SSCD compliant with ETSI TS 102 042 LCP+
						certificate policy. Key Generation by CSP. Sole
						Authorised Usage: Authentication and
						Encryption for Integration Purposes.
	Policyldentifier	~				0.4.0.2042.1.3

3.3.11 LuxTrust Signing Server Account LCP Certificates supporting Signature, Authentication & Encryption for integration purposes

LuxTrust Signing Server Account NCP Certificates are Normalised Certificates **not** issued on SSCD Hardware token with creation of the keys by LuxTrust CSP according to the enrolment and issuing process and procedures described in the applicable CP, with a 2048-bit key size and 3 years validity from issuing start date.

These LuxTrust Signing Server Account LCP Certificates are compliant with and include the OID reference of the LCP certificate policy of the ETSI Technical Specifications 102 042 (i.e., 0.4.0.2042.1.3; cf. [4]).

The usage purpose of these Certificates is for the combined purpose of electronic signature, authentication and encryption. These Certificates include the corresponding LuxTrust Signing Server Account OID, i.e., <OID 1.3.171.1.1.10.3.9>.







The following table provides the description of the fields for the LuxTrust Signing Server Account LCP Signature, Authentication and Encryption Certificate type.

Note: Due to technical constraints within the Signing Server, the signature algorithm will be SHA1WithRsa instead of SHA256WithRsa.

	LuxTrus	t Signing	Serve	er LCP C	Certific	ate Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
Base						
Profile						
Version		✓	False			
					S	Version 3 Value = "2"
SerialNumbe	er	✓	False			
					FDV	Validated on duplicates.
signatureAlg		✓	False			
	algorithm				S	OID = "1.2.840.113549.1.1.5" – SHA1 with
						RSA Encryption.
signatureVal	lue	✓	False			
					D	Issuing CA Signature.
Issuer	T	✓	False		S	
	countryName	✓			S	LU 18
	commonName	· ·			S	LuxTrust Global Qualified CA x ¹⁸
	organizationName				S	LuxTrust S.A.
Validity	T	✓	False			
	NotBefore				D	Certificate generation process date/time.
	NotAfter	·			D	Certificate generation process date/time + 36 Months
Subject		√	False			30 Months
	serialNumber	✓		М	D	Serial Number as constructed by LRAO
	commonName	~		М	D	LGQCA XX CSS (XX a number selected internally by LuxTrust)
	givenName	~		М	D	LGQCA XX (XX a number selected internally by LuxTrust)
	surname	~		М	D	CSS
	countryName	✓		М	D	LU
	emailAddress	✓		0	D	N/A
	title	✓		М	D	Private Person
subjectPublic	cKeyInfo	✓	False			
	algorithm	✓				Public Key: Key length: 2048 bit (RSA);
	subjectPublicKey	✓		М		public exponent: Fermat-4 (=010001).
Extensions						
Authority Properties						
-	l dentifier	√	False			







	LuxTrust	Signing	Serve	er LCP (Certific	cate Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
	keyldentifier	✓				SHA-1 Hash of the LuxTrust Global
						Qualified CA public key
authorityInfo	Access	✓	False			
	AccessMethod	✓				ld-ad-2
	accessLocation	✓				http://ca.luxtrust.lu/LTGQCAx18.crt
	AccessMethod	✓				ld-ad-1
	accessLocation	✓				http://ocsp.luxtrust.lu
cRLDistribut	tionPoint	✓	False			
	distributionPoint	√			S	
	fullName	✓				http://crl.luxtrust.lu/LTGQCAx 18.crl
Subject						
Properties						
subjectAltNa	ame	√	False			
	Rfc822Name	✓		0	D	N/A
subjectKeyle	dentifier	✓	False			
	keyldentifier	✓			Fixed	The Key Identifier comprises a four-bit
						field with a 0100 value, followed by the
						least significant 60 bits of the SHA-1 hash
						of the value or subjectPublicKey bit string
						(tag, not including the length and number
						of unused bit-string bits).
Policy						
Properties		√	_			
keyUsage	1 11 11 121	•	True			_
	digitalSignature				S	True
	nonRepudiation				S	True
	keyEncipherment	✓			S	True
	dataEncipherment	✓			S	True
certificatePo	licies	√	False			
	PolicyIdentifier	✓				1.3.171.1.1.10.3.9
	policyQualifierID	√			S	Id-qt-1 (CPS)
	qualifier	✓			S	https://repository.luxtrust.lu
	policyQualifierID	√			S	Id-qt-2 (User Notice)
	noticeNumbers					
	DisplayText	√				INTEGRATION Certificate not on SSCD
						compliant with ETSI TS 102 042 LCP
						cert.policy. Key Generation by CSP. Sole
						Authorised Usage: Signature, Data or
						Entity Auth. and Data Enc. for integration
						purposes
	Policyldentifier	✓				0.4.0.2042.1.3







3.3.12 LuxTrust Smartcard LORA Certificates supporting Signature for LRAO purposes

LuxTrust SSCD QCP+ Certificates supporting Qualified Signatures are Qualified Certificates issued on SSCD, with creation of the keys by LuxTrust CSP according to the enrolment and issuing process and procedures described in the applicable CP, with a 2048-bit key size and 3 years validity from issuing start date.

These LuxTrust SSCD QCP+ Certificates are compliant with and include the OID reference of the QCP+ certificate policy of the ETSI Technical Specifications 101 456 (i.e., 0.4.0.1456.1.1; cf. [3]).

The usage purpose of these LuxTrust SSCD QCP+ Certificates is limited to sole authorised usage of supporting the creation of qualified electronic signatures for LRAO purposes. The LuxTrust SSCD QCP+ Certificates include the corresponding LuxTrust QCP+ OID, i.e., < OID 1.3.171.1.1.10.3.10>.

The following table provides the description of the fields for LuxTrust SSCD LORA QCP+ Certificate Profile.

	LuxTr	ust SSCD	LORA	QCP+	Certif	icate Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
Base						
Profile						
Version		√	False			
					S	Version 3 Value = "2"
SerialNumbe	er	√	False			
					FDV	Validated on duplicates.
signatureAlg	orithm	√	False			
	Algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256 with
						RSA Encryption.
signatureVal	ue	✓	False			
					D	Issuing CA Signature.
Issuer		✓	False		S	
	countryName	√			S	LU
	commonName	√			S	LuxTrust Global Qualified CA x18
	organizationName	√			S	LuxTrust S.A.
Validity		√	False			
	NotBefore	√			D	Certificate generation process date/time.
	NotAfter	√			D	Certificate generation process date/time + 36
						Months
Subject		√	False			
	serialNumber	✓		М	D	Serial Number as constructed by LRAO
	commonName	✓		М	D	Concatenation of given name(s) and surname(s) as on ID card separated by a "Space" character.
	givenName	✓		М	D	Given name(s) as on ID card
	surname	√		М	D	Surname(s) as on ID card without indication "épouse", "ép." or similar and the subsequent name(s)
	countryName	✓		М	D	Nationality of holder (ISO3166)
	emailAddress	✓		0	D	Subject's email address







	LuxTru	st SSCD	LORA	QCP+	Certif	icate Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
	title	√		M	D	"LuxTrust RA Officer"
	organizationName	✓		M	D	Constructed by LuxTrust
	localityName	✓		М	D	Country of RA
	organizationalUnitName	✓		М	D	RA code Constructed by LuxTrust
	organizationalUnitName	✓		М	D	RAO code Constructed by LuxTrust
subjectPublic	KeyInfo	✓	False			
	Algorithm	✓				Public Key: Key length: 2048bit (RSA); public
	subjectPublicKey	✓		М		exponent: Fermat-4 (=010001).
Extensions						
Authority Properties						
authorityKey	dentifier	✓	False			
	keyldentifier	√				SHA-1 Hash of the LuxTrust Global Qualified CA public key
authorityInfo	Access	✓	False			
	AccessMethod	✓				Id-ad-2
	accessLocation	✓				http://ca.luxtrust.lu/LTGQCAx ¹⁸ .crt
	AccessMethod	✓				Id-ad-1
	accessLocation	✓				http://ocsp.luxtrust.lu
cRLDistributi	onPoint	✓	False			
	distributionPoint	✓			S	
	fullName	✓				http://crl.luxtrust.lu/LTGQCAx 18.crl
Subject Properties						
subjectAltNa	me	√	False			
	Rfc822Name	✓		0	D	Certificate Holder's email address
subjectKeyld	entifier	✓	False			
	keyldentifier	√			Fixed	The Key Identifier comprises a four-bit field with a 0100 value, followed by the least significant 60 bits of the SHA-1 hash of the value or subjectPublicKey bit string (tag, not including the length and number of unused bit-string bits).
Policy Properties						
keyUsage		√	True			
	digitalSignature	√			S	False
	nonRepudiation	√			S	True
	keyEncipherment	√			S	False
	dataEncipherment	✓			S	False







	LuxTr	ust SSCD	LORA	QCP+	Certif	icate Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
certificatePo	licies	√	False			
	Policyldentifier	√				1.3.171.1.1.10.3.10
	policyQualifierID	√			S	Id-qt-1 (CPS)
	qualifier	√			S	https://repository.luxtrust.lu
	policyQualifierID	✓			S	Id-qt-2 (User Notice)
	noticeNumbers					
	DisplayText	*				LuxTrust Qualified Certificate on SSCD compliant with ETSI TS 101 456 QCP+ certificate policy. Key Generation by CSP. Sole Authorised Usage: Support of Qualified Electronic Signature for LRAO purposes
	Policyldentifier	•				0.4.0.1456.1.1
QualifiedCer	rtificateStat					
	QcCompliance	√		М	S	0.4.0.1862.1.1
	QcLimitValue			0	D	As provided by LuxTrust S.A. in compliance with [5]
	QcRetentionPeriod			0	D	As provided by LuxTrust S.A. in compliance with [5]
	QcSSCD	✓		М	D	Set

3.3.13 LuxTrust Smartcard LORA Certificates supporting Authentication & Encryption for LRAO purposes

LuxTrust SSCD NCP+ Certificates are Normalised Certificates issued on SSCD Hardware token such as LuxTrust Smartcard with creation of the keys by LuxTrust CSP according to the enrolment and issuing process and procedures described in the applicable CP, with a 2048-bit key size and 3 years validity from issuing start date.

These LuxTrust SSCD NCP+ Certificates are compliant with and include the OID reference of the NCP+ certificate policy of the ETSI Technical Specifications 102 042 (i.e., 0.4.0.2042.1.2; cf. [4]).

The usage purpose of these LuxTrust SSCD NCP+ Certificates is for the combined purpose of authentication and encryption for LRAO purposes. These Certificates include the corresponding LuxTrust SSCD NCP+ OID, i.e., <OID 1.3.171.1.10.3.11>.

The following table provides the description of the fields for the LuxTrust SSCD LORA NCP+ Certificate Profile type supporting Authentication and Encryption.

	LuxTrust SSCD LORA NCP+ Certificate Profile									
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value				
Base Profile										
Version		√	False							
					S	Version 3 Value = "2"				
SerialNumber		✓	False							
					FDV	Validated on duplicates.				
signatureAlgo	rithm	√	False							
	algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256 with				
						RSA Encryption.				







	LuxTrus	st SSCD LORA N		A NCP+	Certif	icate Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
signatureValu	e	✓	False			
					D	Issuing CA Signature.
issuer		✓	False		S	
	countryName	✓			S	LU
	commonName	√			S	LuxTrust Global Qualified CA x ¹⁸
	organizationName	\			S	LuxTrust S.A.
Validity		√	False			
	NotBefore	✓			D	Certificate generation process date/time.
	NotAfter	✓			D	Certificate generation process date/time + 36 Months
subject		✓	False			
	serialNumber	✓		М	D	Serial Number as constructed by LRAO
	commonName	✓		М	D	Concatenation of given name(s) and surname(s) as on ID card separated by a "Space" character
	givenName	✓		M	D	Given name(s) as on ID card
	surname	✓		M	D	Surname(s) as on ID card without indication "épouse", "ép." or similar and the subsequent name(s)
	countryName	✓		М	D	Nationality of holder (ISO3166)
	emailAddress	✓		0	D	Subject's email address
	title	✓		М	D	"LuxTrust RA Officer"
	organizationName	✓		М	D	Constructed by LuxTrust
	localityName	✓		М	D	Country of RA
	organizationalUnitName	√		M	D	RA code Constructed by LuxTrust
	organizationalUnitName	√		M	D	RAO code Constructed by LuxTrust
subjectPublicl	KeyInfo	√	False			
	algorithm	√				Public Key: Key length: 2048 bit (RSA); public
	subjectPublicKey	✓		M		exponent: Fermat-4 (=010001).
Extensions						
Authority Properties						
authorityKeylo	dentifier	√	False			
	keyldentifier	√				SHA-1 Hash of the LuxTrust Global Qualified CA public key
authorityInfoA	Access	✓	False			
	AccessMethod	✓				Id-ad-2
	accessLocation	✓				http://ca.luxtrust.lu/LTGQCAx ¹⁸ .crt







	LuxTru	st SSC	D LOR	A NCP+	Certif	icate Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value
	AccessMethod	✓				ld-ad-1
	accessLocation	✓				http://ocsp.luxtrust.lu
cRLDistribution	onPoint	✓	False			
	distributionPoint	✓			S	
	fullName	✓				http://crl.luxtrust.lu/LTGQCAx 18.crl
Subject						
Properties						
subjectAltNar	me	√	False			
	Rfc822Name	√		0	D	Certificate Holder's email address
subjectKeyIde	entifier	√	False			
	keyldentifier	✓			Fixed	The Key Identifier comprises a four-bit field
						with a 0100 value, followed by the least
						significant 60 bits of the SHA-1 hash of the
						value or subjectPublicKey bit string (tag, not
						including the length and number of unused
						bit-string bits).
Policy Properties						
keyUsage	•	√	True			
	digitalSignature	✓			S	True
	nonRepudiation				S	False
	keyEncipherment	✓			S	True
	dataEncipherment	✓			S	True
certificatePoli	icies	√	False			
	Policyldentifier	✓				1.3.171.1.1.10.3.11
	policyQualifierID	✓			S	Id-qt-1 (CPS)
	qualifier	✓			S	https://repository.luxtrust.lu
	policyQualifierID	√			S	Id-qt-2 (User Notice)
	noticeNumbers					
	DisplayText	✓				LuxTrust Certificate on SSCD compliant with
						ETSI TS 102 042 NCP+ certificate policy. Key
						Generation by CSP.
						Sole Authorised Usage: Data or Entity
						Authentication and Data Encryption for LRAO
						purposes.
	Policyldentifier	✓				0.4.0.2042.1.2

3.3.14 LuxTrust non SSCD Mass LRAO QCP Certificates supporting Advanced Electronic Signatures

LuxTrust non SSCD QCP Certificates are Qualified Certificates **not** issued on SSCD, with creation of the keys by LuxTrust CSP according to the enrolment and issuing process and procedures described in the applicable CP, with 2048-bit key size and 3 years validity from issuing start date.







These LuxTrust non SSCD QCP Certificates are compliant with and include the OID reference of the QCP certificate policy of the ETSI Technical Specifications 101 456 (i.e., 0.4.0.1456.1.2; cf. [3]).

The usage purpose of these Certificates is limited to sole authorised usage of supporting the creation of non-qualified (advanced) electronic signatures supported by a qualified certificate for Mass LRAO Signature purposes. These Certificates include the corresponding LuxTrust QCP OID, i.e., < OID 1.3.171.1.1.10.3.12>.

The following table provides the description of the fields for LuxTrust non SSCD QCP Certificates.

	LuxTrust non SSCD QCP Mass LRAO Signatures Certificate Profile										
Attribute	Field	IN¹4	CE ¹⁵	O/M ¹⁶	CO17	Value					
Base Profile											
Version		✓	False								
					S	Version 3 Value = "2"					
SerialNumbe	er	✓	False								
					FDV	Validated on duplicates.					
signatureAlg	orithm	✓	False								
	Algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256 with RSA Encryption.					
signatureVal	ue	✓	False								
					D	Issuing CA Signature.					
Issuer		✓	False		S						
	countryName	✓			S	LU					
	commonName	✓			S	LuxTrust Global Qualified CA x ¹⁸					
	organizationName	✓			S	LuxTrust S.A.					
Validity		✓	False								
	NotBefore	✓			D	Certificate generation process date/time.					
	NotAfter	✓			D	Certificate generation process date/time + 36 Months					
Subject		✓	False								
	serialNumber	✓		М	D	Serial Number as constructed by LRAO					
	commonName	✓		М	D	Concatenation of given name(s) and surname(s) as on ID card separated by a "Space" character					
	givenName	√		М	D	Given name(s) as on ID card					
	surname	√		М	D	Surname(s) as on ID card without indication "épouse", "ép." or similar and the subsequent name(s)					
	countryName	✓		М	D	Nationality of holder (ISO3166)					
	emailAddress	✓		0	D	Subject's email address					







LuxTrust non SSCD QCP Mass LRAO Signatures Certificate Profile									
Attribute Field		IN¹4	CE ¹⁵	O/M ¹⁶	CO17	Value			
	Title	✓		М	D	"LuxTrust RA officer – LRS"			
	organizationName	√		М	D	"RA" & RA number & " – " & Name of the LuxTrust RA			
	localityName	✓		M	D	Country of RA (as in articles of association)			
	organizationalUnitName 1	✓		M	D	RA code Constructed by LuxTrust			
	organizationalUnitName 2	✓		0	D	RAO code Constructed by LuxTrust			
subj	ectPublicKeyInfo	√	False						
	Algorithm	√				Public Key: Key length: 2048 bit (RSA); public			
	subjectPublicKey	✓		М		exponent: Fermat-4 (=010001).			
Extensions									
Authority Pro	Authority Properties								
authorityKeyl	authorityKeyIdentifier		False						
	keyldentifier	√				SHA-1 Hash of the LuxTrust Global Qualified CA public key			
authorityInfoA	authorityInfoAccess		False						
	AccessMethod	✓				ld-ad-2			
	accessLocation	✓				http://ca.luxtrust.lu/LTGQCAx ¹⁸ .crt			
	AccessMethod	✓				ld-ad-1			
	accessLocation	~				http://ocsp.luxtrust.lu			
cRLDistribution	onPoint	✓	False						
	distributionPoint	~			S				
	fullName	√				http://crl.luxtrust.lu/LTGQCAx 18.crl			
Subject Propo	erties								
subjectAltNar	me	√	False						
	Rfc822Name	✓		0	D	Certificate Holder's email address			
subjectKeylde	subjectKeyldentifier		False						
	keyldentifier	√			Fixed	The Key Identifier comprises a four-bit field with a 0100 value, followed by the least significant 60 bits of the SHA-1 hash of the value or subjectPublicKey bit string (tag, not including the length and number of unused bit-string bits).			
Policy Proper	ties								







	LuxTrust non SS	CD QC	P Mas	s LRAO	Signa	tures Certificate Profile
Attribute	Field	IN¹4	CE ¹⁵	O/M ¹⁶	CO17	Value
keyUsage		✓	True			
	digitalSignature	✓			S	False
	nonRepudiation	✓			S	True
	keyEncipherment	✓			S	False
	dataEncipherment	✓			S	False
certificatePo	licies	✓	False			
	Policyldentifier	✓				1.3.171.1.1.10.3.12
	policyQualifierID	✓			S	Id-qt-1 (CPS)
	qualifier	✓			S	https://repository.luxtrust.lu
	policyQualifierID	✓			S	Id-qt-2 (User Notice)
	noticeNumbers					
	DisplayText	✓				LuxTrust Qualified Certificate not SSCD compliant with ETSI TS 101 456 QCP certificate policy. Key Generation by CSP.
						Sole Authorised Usage: Support of Advanced Electronic Signature for Mass LRAO purposes
	Policyldentifier	✓				0.4.0.1456.1.2
QualifiedCe	rtificateStat					
	QcCompliance	✓		М	S	0.4.0.1862.1.1
	QcLimitValue			0	D	As provided by LuxTrust S.A. in compliance with [5]
	QcRetentionPeriod			0	D	As provided by LuxTrust S.A. in compliance with [5]
	QcSSCD	✓				NOT SET

3.3.15 LuxTrust eID SSCD QCP+ Certificates supporting Qualified Signatures

LuxTrust eID SSCD QCP+ Certificates supporting Qualified Signatures are Qualified Certificates issued on SSCD, with creation of the keys by LuxTrust CSP according to the enrolment and issuing process and procedures described in the eID certificate life cycle procedure, with a 2048-bit key size and 61 months validity from issuing start date.

These LuxTrust SSCD QCP+ Certificates are compliant with and include the OID reference of the QCP+ certificate policy of the ETSI Technical Specifications 101 456 (i.e., 0.4.0.1456.1.1; cf. [3]).

The usage purpose of these LuxTrust SSCD QCP+ Certificates is limited to sole authorised usage of supporting the creation of qualified electronic signatures. The LuxTrust SSCD QCP+ Certificates include the corresponding LuxTrust QCP+ OID, i.e., < OID 1.3.171.1.1.10.3.13>.

The following table provides the description of the fields for LuxTrust SSCD QCP+ Certificates.







	LuxTrust eID SSCD QCP+ Certificate Profile									
Attribute	Field	IN ¹⁹	CE ²⁰	O/M ²¹	CO ²²	Value				
Base										
Profile										
Version	T	✓	False							
		/			S	Version 3 Value = "2"				
SerialNumbe	SerialNumber		False							
					FDV	Validated on duplicates.				
signatureAlge	signatureAlgorithm		False							
	Algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256 with				
		✓				RSA Encryption.				
signatureVal	ue T	,	False							
1		√			D	Issuing CA Signature.				
Issuer		· ·	False		S					
	countryName	<i>,</i>			S	LU Turk Olahai Qualificad Qualificad				
	commonName	· ·			S	LuxTrust Global Qualified CA x ²³				
\/_U_U_U	organizationName	√ ·	- -1		S	LuxTrust S.A.				
Validity	NetDefens	√	False		_	Contificate appropriate property data things				
	NotBefore	√			D	Certificate generation process date/time.				
	NotAfter	·			D	Certificate generation process date/time + 61				
Subject		✓	False			Months				
Subject			i aise		_					
	serialNumber	✓		М	D	Serial Number as constructed by LRAO				
	commonName	✓		М	D	Concatenation of given name(s) and				
	Sommon vario					surname(s)				
	givenName	·		М	D	Given name(s) as on ID card or as provided by				
	giveriivanie	,		IVI		the RNCID				
						Surname(s) as on ID card without indication				
	surname	✓		М	D	"épouse", "ép." or similar and the subsequent				
						name(s) or as provided by the RNCID				
	countryName	✓		М	D	LU				
	emailAddress	✓		0	D	Subject's email address				
	title	✓		М	D	"Private Person"				
	organizationall Inithleme 4	√		0	D	If the holder is underage: "Mineur jusqu'à : " &				
	organizationalUnitName 1	V		0	U D	(Date of birth + 18 years).				
subjectPublic	subjectPublicKeyInfo		False							
	Algorithm	√				Public Key: Key length: 2048bit (RSA); public				
	subjectPublicKey	✓		М		exponent: Fermat-4 (=010001).				
Extensions										

 $^{^{19}}$ IN = Included: Attribute / field included within the certificate profile.

²³ X is a sequential value to distinguish the old CA and the renewed CA. The value 1 is omitted as it is the first CA issued.



 $^{^{20}}$ CE = Critical Extension.

²¹ O/M: O = Optional, M = Mandatory.

 $^{^{22}}$ CO = Content: S = Static, D = Dynamic, F = Formatted by CA, V = Validated by CA.





	LuxTr	ust eID S	SCD Q	CP+ C	ertific	ate Profile
Attribute	Field	IN ¹⁹	CE ²⁰	O/M ²¹	CO ²²	Value
Authority						
Properties						
authorityKey	Identifier	√	False			
	keyldentifier	✓				SHA-1 Hash of the LuxTrust Global Qualifie
						CA x public key
authorityInfo	Access	√	False			
	AccessMethod	✓				ld-ad-2
	accessLocation	✓				http://ca.luxtrust.lu/LTGQCAx ¹⁸ .crt
	AccessMethod	✓				ld-ad-1
	accessLocation	✓				http://ocsp.luxtrust.lu
cRLDistributi	ionPoint	✓	False			
	distributionPoint	√			S	
	fullName	√				http://crl.luxtrust.lu/LTGQCAx ¹⁸ .crl
Subject						
Properties						
subjectAltNa	me	✓	False			
	Rfc822Name	✓		0	D	Subject email address
subjectKeylo	lentifier	√	False			
	keyldentifier	✓			Fixed	The Key Identifier comprises a four-bit field
						with a 0100 value, followed by the least
						significant 60 bits of the SHA-1 hash of th
						value or subjectPublicKey bit string (tag, no
						including the length and number of unused bi
						string bits).
Policy						
Properties						
keyUsage		✓	True			
	digitalSignature	✓			S	False
	nonRepudiation	√			S	True
	keyEncipherment	√			S	False
	dataEncipherment	√			S	False
certificatePo	licies	√	False			
	Policyldentifier	√				1.3.171.1.1.10.3.13
	policyQualifierID	√			S	Id-qt-1 (CPS)
	qualifier	✓			S	https://repository.luxtrust.lu
	policyQualifierID	√			S	Id-qt-2 (User Notice)
	noticeNumbers					
	DisplayText	√				LuxTrust Qualified Certificate on SSC
						compliant with ETSI TS 101 456 QCP
						certificate policy. Key Generation by CSP.
						Sole Authorised Usage: Support of Qualifie
						Electronic Signature.
	Policyldentifier	✓				0.4.0.1456.1.1
QualifiedCer	•					
	QcCompliance	✓		М	S	0.4.0.1862.1.1
	4000mpilarioo]	141		J







LuxTrust eID SSCD QCP+ Certificate Profile									
Attribute	Field	IN ¹⁹	CE ²⁰	O/M ²¹	CO ²²	Value			
	QcLimitValue			0	D	As provided by LuxTrust S.A. in compliance			
						with [5]			
	QcRetentionPeriod			0	D	As provided by LuxTrust S.A. in compliance			
						with [5]			
	QcSSCD	√		М	D	Set			

3.3.16 LuxTrust eID SSCD NCP+ Certificates supporting Authentication & Encryption

LuxTrust SSCD NCP+ Certificates are Normalised Certificates issued on SSCD Hardware token such as LuxTrust Smartcard with creation of the keys by LuxTrust CSP according to the enrolment and issuing process and procedures described in the eID certificate life cycle procedure, with a 2048-bit key size and sixty-one months validity from issuing start date.

These LuxTrust SSCD NCP+ Certificates are compliant with and include the OID reference of the NCP+ certificate policy of the ETSI Technical Specifications 102 042 (i.e., 0.4.0.2042.1.2; cf. [4]).

The usage purpose of these LuxTrust SSCD NCP+ Certificates is for the combined purpose of authentication and encryption. These Certificates include the corresponding LuxTrust SSCD NCP+ OID, i.e., <OID 1.3.171.1.1.10.3.14>.

The following table provides the description of the fields for the LuxTrust SSCD NCP+ Certificate type supporting Authentication and Encryption.

LuxTrust SSCD NCP+ Certificate Profile								
Attribute	Field	IN 14	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value		
Base Profile								
Version		✓	False					
					S	Version 3 Value = "2"		
SerialNumber	•	✓	False					
					FDV	Validated on duplicates.		
signatureAlgo	rithm	✓	False					
	algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256 with		
						RSA Encryption.		
signatureValu	signatureValue		False					
					D	Issuing CA Signature.		
issuer	issuer		False		S			
	countryName	✓			S	LU		
	commonName	√			S	LuxTrust Global Qualified CA x ¹⁸		
	organizationName	√			S	LuxTrust S.A.		
Validity		✓	False					
	NotBefore	✓			D	Certificate generation process date/time.		
	NotAfter	~			D	Certificate generation process date/time + 61		
						Months		
subject	subject		False					
	serialNumber	✓		М	D	Serial Number as constructed by LRAO		
	commonName	✓		М	D	Concatenation of given name(s) and surname(s)		







	LuxTı	ust S	SCD N	CP+ Cer	tificat	e Profile
Attribute	Field	IN 14	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
	givenName	✓		М	D	Given name(s) as on ID card or as provided by the RNCID
	surname	✓		М	D	Surname(s) as on ID card without indication "épouse", "ép." or similar and the subsequent name(s) or as provided by the RNCID
	countryName	✓		М	D	LU
	emailAddress	✓		0	D	Subject's email address
	title	✓		М	D	"Private Person"
	organizationalUnitName 1	✓		0	D	If the holder is underage: "Mineur jusqu'à : " & (Date of birth + 18 years).
subjectPublich	KeyInfo	✓	False			
	algorithm	✓				Public Key: Key length: 2048 bit (RSA); public
	subjectPublicKey	✓		М		exponent: Fermat-4 (=010001).
Extensions						
Authority Properties						
authorityKeylo	dentifier	✓	False			
	keyldentifier	√				SHA-1 Hash of the LuxTrust Global Qualified CA x public key
authorityInfoA	ccess	✓	False			
	AccessMethod	✓				Id-ad-2
	accessLocation	√				http://ca.luxtrust.lu/LTGQCAx ¹⁸ .crt
	AccessMethod	√				Id-ad-1
	accessLocation	✓				http://ocsp.luxtrust.lu
cRLDistributio	nPoint	✓	False			
	distributionPoint	✓			S	
	fullName	✓				http://crl.luxtrust.lu/LTGQCAx ¹⁸ .crl
Subject Properties						
subjectAltNam	ne	✓	False			
	Rfc822Name	✓		0	D	Subject email address
subjectKeylde	entifier	✓	False			
	keyldentifier	V			Fixed	The Key Identifier comprises a four-bit field with a 0100 value, followed by the least significant 60 bits of the SHA-1 hash of the value or subjectPublicKey bit string (tag, not including the length and number of unused bit-string bits).
Policy Properties						
keyUsage		√	True			
, 55490	digitalSignature	✓			S	True
	nonRepudiation				S	False







	LuxTrust SSCD NCP+ Certificate Profile										
Attribute	Field	IN 14	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value					
	keyEncipherment	✓			S	True					
	dataEncipherment	✓			S	True					
certificatePoli	cies	√	False								
	Policyldentifier	√				1.3.171.1.1.10.3.14					
	policyQualifierID	✓			S	Id-qt-1 (CPS)					
	qualifier	✓			S	https://repository.luxtrust.lu					
	policyQualifierID	✓			S	Id-qt-2 (User Notice)					
	noticeNumbers										
	DisplayText	✓				LuxTrust Certificate on SSCD compliant with					
						ETSI TS 102 042 NCP+ certificate policy. Key					
						Generation by CSP.					
						Sole Authorised Usage: Data or Entity					
						Authentication and Data Encryption.					
	Policyldentifier	✓				0.4.0.2042.1.2					

3.3.17 LuxTrust NCP+ Certificates supporting SEAL Signature Services

LuxTrust NCP+ Certificates for Advanced Seal Signature Services are Normalised Certificates certified as generated on Secure User Device, with creation of the keys by the Subscriber and LuxTrust, with 2048-bit key size and 3 years validity from issuing start date.

These LuxTrust Secure User Device NCP+ Certificates are compliant with and include the OID reference of the NCP+ certificate policy of the ETSI Technical Specifications 102 042 (i.e., 0.4.0.2042.1.2; cf. [4]).

The usage purpose of these Certificates is limited to sole authorised usage of supporting the creation of non-qualified (advanced) electronic signatures supported by a normalised certificate for Seal Signature purposes. These Certificates include the corresponding LuxTrust NCP+ OID, i.e., < OID 1.3.171.1.1.10.3.15>.

The following table provides the description of the fields for LuxTrust Secure User Device NCP+ Certificates.

LuxTrust non	SSCD NCP+ Public (Certi	ficate	Profil	e for	Mass Signature Services
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
Base Profile						
Version		✓	False			
					S	Version 3 Value = "2"
SerialNumber		✓	False			
					FDV	Validated on duplicates.
signatureAlgorithm		✓	False			
	algorithm				S	OID = "1.2.840.113549.1.1.11" -
						SHA256 with RSA Encryption
signatureValue		✓	False			
					D	Issuing CA Signature.
Issuer		✓	False		S	
	countryName	√			S	LU
	commonName	✓			S	LuxTrust Global Qualified CA x ¹⁸







		1			_
Field		CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
organizationName				S	LuxTrust S.A.
		False			
NotBefore	~			D	Certificate generation proces
					date/time.
NotAfter	✓			D	Certificate generation proces
					date/time + 36 Months
	✓	False			
					Names as in articles of association
					including the legal form (as specified)
commonName	✓		М	D	the memorandum and articles
					association or an equivalent documen
					Country in which the organization
a source Allows				_	registered office is established (a
countryname	*		IVI	ט	specified in the memorandum ar
					articles of association). (ISO3166)
stateOrProvinceName	✓		0	D	
emailAddress	✓		0	D	Subject's email address if available
Ondinadio33			0		Cabjest 5 cmail address if available
					Names as in articles of association
organizationName	✓		М	D	including the legal form (as specified in
organization tarrio					the memorandum and articles
					association or an equivalent documen
					Location in which the organization
					registered office is established (a
localityName	✓		М	D	specified in the memorandum an
100amyrtamo					articles of association or an equivaler
					document)
					documenty
organizationalUnitName 1	✓		0	D	As provided by Subscriber
organizationall InitName 2	✓		0	D	As provided by Subscriber
organizationalonitivanio 2					The provided by Cabbonicon
		False			
algorithm					Public Key: Key length: 2048 bit (RSA
subjectPublicKey			M		public exponent: Fermat-4 (=010001).
	✓	False			
keyldentifier	✓				SHA-1 Hash of the LuxTrust Globa
					Qualified CA public key
	√	False			
		i aise			
AccessMethod	✓	i aise			ld-ad-2
AccessMethod accessLocation		i aise			
	✓	i dise			Id-ad-2 http://ca.luxtrust.lu/LTGQCAx ¹⁸ .crt Id-ad-1
	rield organizationName NotBefore NotAfter commonName countryName stateOrProvinceName emailAddress organizationName localityName organizationalUnitName 1 organizationalUnitName 2 algorithm subjectPublicKey	Field IN14 organizationName NotBefore NotAfter CommonName countryName stateOrProvinceName emailAddress organizationName localityName v algorithm subjectPublicKey	Field IN14 CE15 organizationName NotBefore NotAfter False commonName countryName stateOrProvinceName emailAddress organizationName localityName organizationalUnitName 1 organizationalUnitName 2 algorithm subjectPublicKey False	Field IN14 CE15 O/M16 organizationName	organizationName ✓ False NotBefore ✓ False NotAfter ✓ False commonName ✓ False countryName ✓ M D stateOrProvinceName ✓ O D emailAddress ✓ O D organizationName ✓ M D localityName ✓ M D organizationalUnitName 1 ✓ O D organizationalUnitName 2 ✓ O D algorithm ✓ False subjectPublicKey ✓ M







Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value
cRLDistributionPoint	7.7572	√	False			
	distributionPoint	✓			S	
	fullName	✓				http://crl.luxtrust.lu/LTGQCAx ¹⁸ .crl
Subject Properties						
subjectAltName		√	False			
	Rfc822Name	✓		0	D	Certificate Holder's email address
subjectKeyldentifier		✓	False			
•	keyldentifier	~			Fixed	The Key Identifier comprises a four-tifield with a 0100 value, followed by the least significant 60 bits of the SHA-hash of the value or subjectPublicKe bit string (tag, not including the lenguand number of unused bit-string bits).
Policy Properties						
keyUsage		✓	True			
	digitalSignature	✓			S	True
	nonRepudiation				S	True
	keyEncipherment	✓			S	False
	dataEncipherment	√			S	False
certificatePolicies		√	False			
	Policyldentifier	✓				1.3.171.1.1.10.3.15
	policyQualifierID	✓			S	Id-qt-1 (CPS)
	qualifier	✓			S	https://repository.luxtrust.lu
	policyQualifierID	√			S	Id-qt-2 (User Notice)
	noticeNumbers					
	DisplayText	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				LuxTrust Certificate on Secure Us Device compliant with ETSI TS 10 042 NCP+ certificate policy. Ko Generation by CSP. Sole Authorised Usage: Advance electronic seal signature services. GTC, CP and CPS http://repository.luxtrust.lu.

3.3.18 LuxTrust SSL/TLS Standard Server Certificates – LCP certificates supporting Signature, Authentication & Encryption

LuxTrust SSL/TLS Standard Server Certificates are ETSI TS 102 042 LCP Certificates not certified as generated on SSCD, with creation of the keys by the Subscriber, with 2048-bit key size and one (1) or three (3) years validity from issuing start date.







These LuxTrust SSL/TLS Standard Server Certificates are compliant with and include the OID reference of the LCP certificate policy of the ETSI Technical Standard 102 042 (i.e., 0.4.0.2042.1.3).

The usage purpose of these LuxTrust SSL/TLS Standard Server Certificates is the combined purpose of digital signature, key and data encryption. The LuxTrust LCP Server Certificates include the corresponding LuxTrust LCP OID for SSL/TLS server certificates, i.e., <1.3.171.1.1.10.5.1>.

The following table provides the description of the fields for LuxTrust Server Certificates.

	LuxTrust	SSL S	erver L	.CP Cer	tificat	e Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value
Base						
Profile						
Version		✓	False			
					S	Version 3 Value = "2"
SerialNumb	er	✓	False			
					FDV	Validated on duplicates.
signatureAlg		√	False			
	algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256 with RSA Encryption.
signatureVa	lue	✓	False			
					D	Issuing CA Signature.
issuer		✓	False		S	
	countryName	√			S	LU
	commonName	✓			S	LuxTrust SSL CA x ¹⁸
	organizationName	√			S	LuxTrust S.A.
Validity		✓	False			
	NotBefore	✓			D	Certificate generation process date/time.
	NotAfter	✓			D	Certificate generation process date/time + 12;36 Months
subject		✓	False			
	countryName	*		М	D	Country in which the company's or institution's registered office is established (as specified in the memorandum and articles of association). (ISO3166)
	stateOrProvinceName	✓		0	D	
	localityName	✓		М	D	Location in which the company's registered office is established (as specified in the memorandum and articles of association or an equivalent document)
	organizationName	√		М	D	Names as in articles of association, including the legal form (as specified in the memorandum and articles of association or an equivalent document)
	organizationalUnitName1	✓		0	D	As provided by Subscriber
	organizationalUnitName2	✓		0	D	As provided by Subscriber







	LuxTrust	SSL Se	erver L	.CP Cer	tificat	e Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value
	commonName	✓		М	D	FQDN (Fully Qualified Domain Name) of application/server – Exact and full URL for a Web Server or IP address or unique name of server.
	serialNumber	✓		0	D	Serial Number as provided by subscriber
	emailAddress	✓		0	D	Subject's email address
subjectPublic	cKeyInfo	√	False			
	algorithm	✓				Public Key: Key length: 2048 bit (RSA);
	subjectPublicKey	✓		М		public exponent: Fermat-4 (=010001).
Extensions						
Authority Properties						
authorityKey	dentifier	✓	False			
	keyldentifier	√				SHA-1 Hash of the LuxTrust SSL CA public key
authorityInfo	Access	✓	False			
	AccessMethod	√				Id-ad-1
	accessLocation	√				http://ocsp.luxtrust.lu
	AccessMethod	√				ld-ad-2
	accessLocation	√				http://ca.luxtrust.lu/LTSSLCAx ¹⁸ .crt
cRLDistribut	Т	✓	False			
	distributionPoint	∨			S	19
	fullName	·				http://crl.luxtrust.lu/LTSSLCAx ¹⁸ .crl
Subject Properties						
subjectAltNa		✓	False			
	Rfc822Name	✓		0	D	Certificate Holder's email address
	SubjectAltName-dNSName	✓		0		FQDN (Fully Qualified Domain Name) of application/server – Exact DNS for a Web Server or IP address or unique name of server.
	SubjectAltName-dNSName	✓		0		FQDN (Fully Qualified Domain Name) of application/server – Exact DNS for a Web Server or IP address or unique name of server.
	SubjectAltName-dNSName	✓		0		FQDN (Fully Qualified Domain Name) of application/server – Exact DNS for a Web Server or IP address or unique name of server.
	SubjectAltName-dNSName	✓		0		FQDN (Fully Qualified Domain Name) of application/server – Exact DNS for a Web Server or IP address or unique name of server.







	LuxTrust SSL Server LCP Certificate Profile										
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value					
	SubjectAltName-dNSName		Τ	0		FQDN (Fully Qualified Domain Name) of					
						application/server – Exact DNS for a Web					
		✓				Server or IP address or unique name of					
						server.					
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain Name) of					
		√				application/server – Exact DNS for a Web					
		•				Server or IP address or unique name of					
						server.					
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain Name) of					
		1				application/server – Exact DNS for a Web					
						Server or IP address or unique name of					
						server.					
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain Name) of					
		✓				application/server – Exact DNS for a Web					
						Server or IP address or unique name of					
						server.					
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain Name) of					
		✓				application/server – Exact DNS for a Web					
						Server or IP address or unique name of					
						server.					
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain Name) of					
		✓				application/server – Exact DNS for a Web					
						Server or IP address or unique name of					
						server.					
	SubjectAltName-URL			0		FQDN (Fully Qualified Domain Name) of					
		✓				application/server – Exact and full second					
						URL for a Web Server or IP address or					
						unique name of server.					
	SubjectAltName-URL			0		FQDN (Fully Qualified Domain Name) of					
		✓				application/server – Exact and full second					
						URL for a Web Server or IP address or					
	Out to statistics of UDI					unique name of server.					
	SubjectAltName-URL			0		FQDN (Fully Qualified Domain Name) of					
		✓				application/server – Exact and full second					
						URL for a Web Server or IP address or					
	CubicetAlthleme LIDI			0		unique name of server.					
	SubjectAltName-URL			0		FQDN (Fully Qualified Domain Name) of					
		✓				application/server – Exact and full second					
						URL for a Web Server or IP address or					
	Cubicot Althorno LIDI		-			unique name of server.					
	SubjectAltName-URL			0		FQDN (Fully Qualified Domain Name) of					
		✓				application/server – Exact and full second					
						URL for a Web Server or IP address or					
						unique name of server.					







	LuxTrust	SSL S	erver L	.CP Cer	tificat	e Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value
	SubjectAltName-URL			0		FQDN (Fully Qualified Domain Name) of
		✓				application/server – Exact and full second
						URL for a Web Server or IP address or
						unique name of server.
	SubjectAltName-URL			0		FQDN (Fully Qualified Domain Name) of
		✓				application/server – Exact and full second
						URL for a Web Server or IP address or
						unique name of server.
	SubjectAltName-URL			0		FQDN (Fully Qualified Domain Name) of
		✓				application/server – Exact and full second
						URL for a Web Server or IP address or
						unique name of server.
	SubjectAltName-URL			0		FQDN (Fully Qualified Domain Name) of
		✓				application/server – Exact and full second
						URL for a Web Server or IP address or
				_		unique name of server.
	SubjectAltName-URL			0		FQDN (Fully Qualified Domain Name) of
		✓				application/server – Exact and full second
						URL for a Web Server or IP address or
		√				unique name of server.
subjectKeylo		✓	False		Fixed	The Key Identifier comprises a four hit
	keyldentifier				i ixeu	The Key Identifier comprises a four-bit field with a 0100 value, followed by the
						least significant 60 bits of the SHA-1 hash
						of the value or subjectPublicKey bit string
						(tag, not including the length and number
						of unused bit-string bits).
Policy						,
Properties						
keyUsage		√	True			
	digitalSignature	✓			S	True
	D. F.C.	✓				
	nonRepudiation				S	False
	keyEncipherment	√			S	True
	dataEncipherment	✓			S	True
certificatePo	 Dicies	✓	False			
J. Illiador O	Policyldentifier	√	. 4.50			1.3.171.1.1.10.5.1
	policyQualifierID	√			S	Id-qt-1 (CPS)
	qualifier	√	1		S	https://repository.luxtrust.lu
	policyQualifierID	✓			S	Id-qt-2 (User Notice)
	noticeNumbers		1			1. 4. 2 (555. 1.5665)
	HOUGOTAUHDOIS					







	LuxTrust SSL Server LCP Certificate Profile										
Attribute	Field	IN¹4	CE ¹⁵	O/M ¹⁶	CO17	Value					
'	DisplayText	✓				LuxTrust Standard SSL/TLS Server					
						Certificate. Not supported by SSCD, Key					
						Generation by Subscriber. GTC, CP and					
						CPS on http://repository.luxtrust.lu.					
						Signed by a SSL CA.					
	Policyldentifier	✓				0.4.0.2042.1.3					
Extended Ke	ey Usage	\	False								
	serverAuth	✓			S	True					
	clientAuth	√			S	True					
	emailProtection	✓			S	True					
Netscape											
Proprietary											
Netscape Ce	ertificate Type	√	False								
	SSL Client	✓			S	Set					
	SSL Server	√			S	Set					
	S/MIME	✓			S	Set					

3.3.19 SSL/TLS Extended Validation Server Certificates – EVCP certificates supporting Signature, Authentication & Encryption

LuxTrust SSL/TLS Extended Validation Server Certificates (hereinafter EV SSL Certificates) are ETSI TS 102 042 EVCP Certificates, with creation of the keys by the Subscriber, with 2048-bit key size and one (1) or two (2) years validity from issuing start date.

These LuxTrust SSL/TLS Extended Validation Server Certificates are compliant with and include the OID reference of the EVCP certificate policy of the ETSI Technical Standard 102 042 (i.e., 0.4.0.2042.1.4).

The usage purpose of these LuxTrust SSL/TLS Extended Validation Server Certificates is the combined purpose of digital signature, key and data encryption. The LuxTrust EVCP Server Certificates include the corresponding LuxTrust EVCP OID for SSL/TLS extended validation server certificates, i.e., <1.3.171.1.1.10.5.2>.

Appropriate Certificate uses:

The primary purposes of these Certificates are to:

- Identify the legal entity that controls a Web site: Provide a reasonable assurance to the user of an Internet browser that
 the Web site the user is accessing is controlled by a specific legal entity identified in the EV SSL Certificate by name,
 address of Place of Business, Jurisdiction of Incorporation or Registration and Registration Number or other
 disambiguating information; and
- Enable encrypted communications with a Web site: Facilitate the exchange of encryption keys in order to enable the encrypted communication of information over the Internet between the user of an Internet browser and a Web site.

The secondary purposes of these Certificates are to help establish the legitimacy of a business claiming to operate a Web site or distribute executable code, and to provide a vehicle that can be used to assist in addressing problems related to phishing, malware, and other forms of online identity fraud. By providing more reliable third-party verified identity and address information regarding the business, EV SSL Certificates may help to:

- Make it more difficult to mount phishing and other online identity fraud attacks using Certificates;
- Assist companies that may be the target of phishing attacks or online identity fraud by providing them with a tool to better identify themselves to users; and







 Assist law enforcement organizations in their investigations of phishing and other online identity fraud, including where appropriate, contacting, investigating, or taking legal action against the Subject.

Prohibited Certificate uses:

The EV SSL Certificates focus only on the identity of the Subject named in the Certificate, and not on the behavior of the Subject. As such, these Certificates are not intended to provide any assurances, or otherwise represent or warrant:

- That the Subject named in the EV SSL Certificate is actively engaged in doing business;
- That the Subject named in the EV SSL Certificate complies with applicable laws;
- That the Subject named in the EV SSL Certificate is trustworthy, honest, or reputable in its business dealings; or
- That it is "safe" to do business with the Subject named in the EV SSL Certificate.

Moreover, usages of EV SSL Certificates for other purposes than those identified in the present CP are prohibited.

Verification of Applicant's Legal Existence and Identity:

For EV SSL Certificates, Applicant's legal existence and identity are verified in compliance with the EV Guidelines [13]:

- For Private Organization Subjects:
 - i. Verify the Applicant's Legal Existence as stipulated in the EV Guidelines [13]);
 - ii. Verify the Applicant's Organization Name as stipulated in the EV Guidelines [13]);
 - iii. Verify the Applicant's Registration Number as stipulated in the EV Guidelines [13]);
 - iv. Verify the Applicant's Registered Agent as stipulated in the EV Guidelines [13]).
- For Government Entity Subjects:
 - i. Verify the Applicant's Legal Existence as stipulated in the EV Guidelines [13]);
 - ii. Verify the Applicant's Entity name as stipulated in the EV Guidelines [13]);
 - iii. Verify the Applicant's Registration Number as stipulated in the EV Guidelines [13]);

For EV SSL Certificates, LuxTrust SSL CA shall use a single naming convention as set forth in the EV Guidelines [13] and the Baseline Requirements [14] published by the CA/Browser Forum.

The following table provides the description of the fields for LuxTrust Server Certificates.

	SSL/TLS Extended Validation Server Certificates									
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value				
Base Profile										
Version		√	False							
					S	Version 3 Value = "2"				
SerialNumber		√	False							
					FDV	Validated on duplicates.				
signatureAlgo	rithm	√	False							
	algorithm				S	OID = "1.2.840.113549.1.1.11" -				
						SHA256 with RSA Encryption.				





	SSL/TLS Exten	ided V	alidati	on Ser	ver C	ertificates
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
signatureValu	ue	✓	False			
					D	Issuing CA Signature.
issuer		✓	False		S	
	countryName	✓			S	LU
	commonName	✓			S	LuxTrust SSL CA x ¹⁸
	organizationName	✓			S	LuxTrust S.A.
Validity		✓	False			
	NotBefore	√			D	Certificate generation process date/time.
	NotAfter	✓			D	Certificate generation process date/time + 12;24 Months
subject		√	False			
	countryName (OID: 2.5.4.6)			М	D	Country in which the company's or institution's registered office is
		~				established (as specified in the memorandum and articles of association). (ISO3166)
	jurisdictionOfIncorporationCount ryName (OID: 1.3.6.1.4.1.311.60.2.1.3)			М	D	Contains the country information specified using the applicable ISO country code for the jurisdiction of
		✓				Incorporation for the Incorporating Agency or Jurisdiction of Registration for a Registration Agency that operates at the country level, at state/pr.
	stateOrProvinceName (OID: 2.5.4.8)	√		М	D	State or Province in which the company's registered office is established (as specified in the
						memorandum and articles of association or an equivalent document)
	jurisdisctionOfIncorporationState OrProvinceName			0	D	Contains the jurisdiction for the applicable Incorporating Agency or
	(OID: 1.3.6.1.4.1.311.60.2.1.2)	√				Registration Agency at the state or province level MUST include both country and state or province information,
	localityName (2.5.4.7)	✓		М	D	Location in which the company's registered office is established (as specified in the memorandum and articles of association or an equivalent document)







	SSL/TLS Extended Validation Server Certificates										
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value					
	jurisdictionOfIncorporationLocalit yName (1.3.6.1.4.1.311.60.2.1.1)	~		0	D	Jurisdiction for the applicable Incorporating Agency or Registration Agency at the locality level MUST include the country and state or province information, where the state or province regulates the registration of the entities at the locality level, as well as the locality information.					
	organizationName (OID: 2.5.4.10)	✓		М	D	Full legal organization name as listed in the official records of the Incorporating or Registration Agency in the Subject's Jurisdiction of Incorporation or Registration or as otherwise verified by the CA as provided herein.					
	businessCategory (OID: 2.5.4.15)	√		M	D	Depending on the Subject qualifications, this field contains one of the following String: Private Organization Government Entity					
	serialNumber (OID: 2.5.4.5)	•		М	D	See EV Guidelines [13]: For Private Organizations, this field MUST contain the Registration (or similar) Number assigned to the Subject by the Incorporating or Registration Agency in its Jurisdiction of Incorporation or Registration, as appropriate. If the Jurisdiction of Incorporation or Registration does not provide a Registration Number, then the date of Incorporation or Registration SHALL be entered into this field in any one of the common date formats. For Government Entities that do not have a Registration Number or readily verifiable date of creation, the CA SHALL enter appropriate language to indicate that the Subject is a Government Entity.					
	postalCode (OID: 2.5.4.17)	√		0	D	Postal code of the subject place of business.					
	streedAddress (OID: 2.5.4.9)	√		0	D	Number and Street of the physical location of the subject					





	SSL/TLS Exter	ded V	alidati	on Ser	ver C	ertificates
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
subjectPublic	KeyInfo	√	False			
	algorithm	√				Public Key: Key length: 2048 bit (RSA);
	subjectPublicKey	√		М		public exponent: Fermat-4 (=010001).
Extensions						
Authority						
Properties						
authorityKeylo	dentifier	✓	False			
	keyldentifier	✓				SHA-1 Hash of the LuxTrust SSL CA
						public key
authorityInfoA	ccess	✓	False			
	AccessMethod	√				Id-ad-1
	accessLocation	√				http://ocsp.luxtrust.lu
	AccessMethod	√				Id-ad-2
	accessLocation	✓				http://ca.luxtrust.lu/LTSSLCAx18.crt
cRLDistributio	T	√	False			
	distributionPoint	√			S	10
	fullName	✓				http://crl.luxtrust.lu/LTSSLCAx ¹⁸ .crl
Subject						
Properties		✓				
subjectAltNan		•	False			
	SubjectAltName-dNSName			М		FQDN (Fully Qualified Domain Name) of
						application/server - Exact DNS for a
						Web Server or IP address or unique
		✓				name of server, owned or controlled by
						the subject and to be associated with the
						Subject's server. Wildcard name not
	Out is at A MA I among alth I ON I among			0		allowed for EV SSL Certificates.
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain Name) of
						application/server – Exact DNS for a Web Server or IP address or unique
		√				name of server, owned or controlled by
						the subject and to be associated with the
						Subject's server. Wildcard name not
						allowed for EV SSL Certificates.
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain Name) of
						application/server – Exact DNS for a
						Web Server or IP address or unique
		✓				name of server, owned or controlled by
						the subject and to be associated with the
						Subject's server. Wildcard name not
						allowed for EV SSL Certificates





	SSL/TLS Exten	ded Va	alidati	on Ser	ver C	ertificates
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain Name) of
						application/server - Exact DNS for a
						Web Server or IP address or unique
		✓				name of server, owned or controlled by
						the subject and to be associated with the
						Subject's server. Wildcard name not
						allowed for EV SSL Certificates.
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain Name) of
						application/server - Exact DNS for a
						Web Server or IP address or unique
		✓				name of server, owned or controlled by
						the subject and to be associated with the
						Subject's server. Wildcard name not
						allowed for EV SSL Certificates.
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain Name) of
						application/server - Exact DNS for a
						Web Server or IP address or unique
		✓				name of server, owned or controlled by
						the subject and to be associated with the
						Subject's server. Wildcard name not
						allowed for EV SSL Certificates.
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain Name) of
						application/server - Exact DNS for a
						Web Server or IP address or unique
		✓				name of server, owned or controlled by
						the subject and to be associated with the
						Subject's server. Wildcard name not
						allowed for EV SSL Certificates.
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain Name) of
						application/server - Exact DNS for a
						Web Server or IP address or unique
		✓				name of server, owned or controlled by
						the subject and to be associated with the
						Subject's server. Wildcard name not
						allowed for EV SSL Certificates.
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain Name) of
						application/server - Exact DNS for a
						Web Server or IP address or unique
		✓				name of server, owned or controlled by
						the subject and to be associated with the
						Subject's server. Wildcard name not



allowed for EV SSL Certificates.





SSL/TLS Extended Validation Server Certificates									
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value			
	SubjectAltName-dNSName	~		0		FQDN (Fully Qualified Domain Name) of application/server – Exact DNS for a Web Server or IP address or unique name of server, owned or controlled by the subject and to be associated with the Subject's server. Wildcard name not allowed for EV SSL Certificates.			
subjectKeyld	entifier	✓	False						
	keyldentifier	V			Fixed	The Key Identifier comprises a four-bit field with a 0100 value, followed by the least significant 60 bits of the SHA-1 hash of the value or subjectPublicKey bit string (tag, not including the length and number of unused bit-string bits).			
Policy Properties									
keyUsage		√	True						
	digitalSignature	✓			S	True			
	nonRepudiation	V			S	False			
	keyEncipherment	√			S	True			
	dataEncipherment	√			S	True			
certificatePol	icies	✓	False						
	Policyldentifier	✓				1.3.171.1.1.10.5.2			
	policyQualifierID	✓			S	Id-qt-1 (CPS)			
	qualifier	V			S	https://repository.luxtrust.lu			
	policyQualifierID	✓			S	Id-qt-2 (User Notice)			
	noticeNumbers DisplayText	· · · · · · · · · · · · · · · · · · ·				ETSI TS 102 042 EVCP complian certificate, produced by SSL CA, with creation of the keys by the Subscriber 2048-bit key size, (1) or (2) years validity, and a key usage combining digital signature (dS bit), key and data encryption as well as extended key usage for server and clien authentication.			
	Policyldentifier					0.4.0.2042.1.4			
Extended Ke	y Usage	√	False						
	serverAuth	✓			S	True			
	clientAuth	✓			S	True			
	emailProtection	✓			S	False			







3.3.20 SSL/TLS Extended Validation Server Certificates - EVCP+ certificates supporting Signature, Authentication & Encryption

LuxTrust SSL/TLS Extended Validation+ Server Certificates are ETSI TS 102 042 EVCP+ Certificates (hereinafter EVCP+ Certificates) certified as generated on Secure User Device, with creation of the keys by the Subscriber, with 2048-bit key size and one (1) or two (2) years validity from issuing start date.

These LuxTrust SSL/TLS Extended Validation+ Server Certificates are compliant with and include the OID reference of the EVCP+ certificate policy of the ETSI Technical Standard 102 042 (i.e., 0.4.0.2042.1.5).

The usage purpose of these LuxTrust SSL/TLS Extended Validation+ Server Certificates is the combined purpose of digital signature, key and data encryption. The LuxTrust EVCP+ Certificates include the corresponding LuxTrust EVCP+ OID for SSL/TLS extended validation+ server certificates, i.e., <1.3.171.1.1.10.5.3>.

Appropriate Certificate uses:

The primary purposes of these Certificates are to:

- Identify the legal entity that controls a Web site: Provide a reasonable assurance to the user of an Internet browser that
 the Web site the user is accessing is controlled by a specific legal entity identified in the EVCP+ Certificate by name,
 address of Place of Business, Jurisdiction of Incorporation or Registration and Registration Number or other
 disambiguating information; and
- Enable encrypted communications with a Web site: Facilitate the exchange of encryption keys in order to enable the encrypted communication of information over the Internet between the user of an Internet browser and a Web site.

The secondary purposes of these Certificates are to help establish the legitimacy of a business claiming to operate a Web site or distribute executable code, and to provide a vehicle that can be used to assist in addressing problems related to phishing, malware, and other forms of online identity fraud. By providing more reliable third-party verified identity and address information regarding the business, EVCP+ Certificates may help to:

- Make it more difficult to mount phishing and other online identity fraud attacks using Certificates;
- Assist companies that may be the target of phishing attacks or online identity fraud by providing them with a tool to better identify themselves to users; and
- Assist law enforcement organizations in their investigations of phishing and other online identity fraud, including where appropriate, contacting, investigating, or taking legal action against the Subject.

Prohibited Certificate uses:

The EVCP+ Certificates focus only on the identity of the Subject named in the Certificate, and not on the behavior of the Subject. As such, these Certificates are not intended to provide any assurances, or otherwise represent or warrant:

- That the Subject named in the EVCP+ Certificate is actively engaged in doing business;
- That the Subject named in the EVCP+ Certificate complies with applicable laws;
- · That the Subject named in the EVCP+ Certificate is trustworthy, honest, or reputable in its business dealings; or
- That it is "safe" to do business with the Subject named in the EVCP+ Certificate.

Moreover, usages of EVCP+ Certificates for other purposes than those identified in the present CP are prohibited.

Verification of Applicant's Legal Existence and Identity:

For EVCP+ Certificates, Applicant's legal existence and identity are verified in compliance with the EV Guidelines [13]:

- For Private Organization Subjects:
 - v. Verify the Applicant's Legal Existence as stipulated in the EV Guidelines [13]);







- vi. Verify the Applicant's Organization Name as stipulated in the EV Guidelines [13]);
- vii. Verify the Applicant's Registration Number as stipulated in the EV Guidelines [13]);
- viii. Verify the Applicant's Registered Agent as stipulated in the EV Guidelines [13]).
- For Government Entity Subjects:
 - iv. Verify the Applicant's Legal Existence as stipulated in the EV Guidelines [13]);
 - v. Verify the Applicant's Entity name as stipulated in the EV Guidelines [13]);
 - vi. Verify the Applicant's Registration Number as stipulated in the EV Guidelines [13]);

For EVCP+ Certificates, LuxTrust SSL CA shall use a single naming convention as set forth in the EV Guidelines [13] and the Baseline Requirements [14] published by the CA/Browser Forum.

The following table provides the description of the fields for LuxTrust Server Certificates.

SSL	_/TLS Extended Valida	tion Serve	er Cert	ificate	s on S	Secure User Device
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value
Base Profile						
Version		√	False			
					S	Version 3 Value = "2"
SerialNumber	•	√	False			
					FDV	Validated on duplicates.
signatureAlgo	rithm	√	False			
	algorithm				S	OID = "1.2.840.113549.1.1.11" -
						SHA256 with RSA Encryption.
signatureValu	e	√	False			
					D	Issuing CA Signature.
issuer		√	False		S	
	countryName	√			S	LU
	commonName	✓			S	LuxTrust SSL CA x ¹⁸
	organizationName	√			S	LuxTrust S.A.
Validity		✓	False			
	NotBefore	√			D	Certificate generation process date/time.
	NotAfter	√			D	Certificate generation process date/time + 12;24 Months
subject		✓	False			
	countryName			М	D	Country in which the company's or
	(OID: 2.5.4.6)					institution's registered office is
	(5.5. 2.6.110)	✓				established (as specified in the
						memorandum and articles of
						association). (ISO3166)







SSL	/TLS Extended Validation	Serve	er Cert	ificate	s on S	Secure User Device
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
	jurisdictionOfIncorporationCountryNa me (OID: 1.3.6.1.4.1.311.60.2.1.3)	√		М	D	Contains the country information specified using the applicable ISO country code for the jurisdiction of Incorporation for the Incorporating Agency or Jurisdiction of Registration for a Registration Agency that operates at the country level, at state/pr.
	stateOrProvinceName (OID: 2.5.4.8)	√		М	D	State or Province in which the company's registered office is established (as specified in the memorandum and articles of association or an equivalent document)
	jurisdisctionOfIncorporationStateOrPro vinceName (OID: 1.3.6.1.4.1.311.60.2.1.2)	√		0	D	Contains the jurisdiction for the applicable Incorporating Agency or Registration Agency at the state or province level MUST include both country and state or province information,
	localityName (2.5.4.7)	✓		М	D	Location in which the company's registered office is established (as specified in the memorandum and articles of association or an equivalent document)
	jurisdictionOfIncorporationLocalityNam e (1.3.6.1.4.1.311.60.2.1.1)	√		0	D	Jurisdiction for the applicable Incorporating Agency or Registration Agency at the locality level MUST include the country and state or province information, where the state or province regulates the registration of the entities at the locality level, as well as the locality information.
	organizationName (OID: 2.5.4.10)	√		М	D	Full legal organization name as listed in the official records of the Incorporating or Registration Agency in the Subject's Jurisdiction of Incorporation or Registration or as otherwise verified by the CA as provided herein







SSI	L/TLS Extended Validation	Serv	er Cert	ificate	s on S	Secure User Device
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value
	businessCategory (OID: 2.5.4.15)	✓		M	D	Depending on the Subject qualifications, this field contains one of the following String: Private Organization Government Entity
	serialNumber			М	D	See EV Guidelines [13] :
	(OID: 2.5.4.5)	✓				For Private Organizations, this field MUST contain the Registration (or similar) Number assigned to the Subject by the Incorporating or Registration Agency in its Jurisdiction of Incorporation or Registration, as appropriate. If the Jurisdiction of Incorporation or Registration does not provide a Registration Number, then the date of Incorporation or Registration SHALL be entered into this field in any one of the common date formats. For Government Entities that do not have a Registration Number or readily verifiable date of creation, the CA SHALL enter appropriate
	postalCode			0	D	language to indicate that the Subject is a Government Entity. Postal code of the subject place of
	(OID: 2.5.4.17)	✓			J	business.
	streedAddress (OID: 2.5.4.9)	✓		0	D	Number and Street of the physical location of the subject
subjectPublic	KeyInfo	√	False			
	algorithm subjectPublicKey	√		M		Public Key: Key length: 2048 bit (RSA); public exponent: Fermat-4 (=010001).
Extensions						
Authority Properties						
authorityKeylo	dentifier	✓	False			
	keyldentifier	√				SHA-1 Hash of the LuxTrust SSL CA public key
authorityInfoA	Access	✓	False			
,	AccessMethod	√				Id-ad-1
	accessLocation	✓	<u> </u>	<u> </u>		http://ocsp.luxtrust.lu





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SS	L/TLS Extended Validation	Serv	er Cert	ificate	s on S	Secure User Device
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value
	AccessMethod	√				ld-ad-2
	accessLocation	✓				http://ca.luxtrust.lu/LTSSLCAx18.crt
cRLDistributi	onPoint	√	False			
	distributionPoint	√			S	
	fullName	✓				http://crl.luxtrust.lu/LTSSLCAx18.crl
Subject						
Properties						
subjectAltNa	те	✓	False			
	SubjectAltName-dNSName	√		М		FQDN (Fully Qualified Domain Name) of application/server – Exact DNS for a Web Server or IP address or unique name of server, owned or controlled by the subject and to be associated with the Subject's server. Wildcard name not allowed for EVCP+ Certificates.
	SubjectAltName-dNSName	√		0		FQDN (Fully Qualified Domain Name) of application/server – Exact DNS for a Web Server or IP address or unique name of server, owned or controlled by the subject and to be associated with the Subject's server. Wildcard name not allowed for EVCP+ Certificates.
	SubjectAltName-dNSName	·		0		FQDN (Fully Qualified Domain Name) of application/server – Exact DNS for a Web Server or IP address or unique name of server, owned or controlled by the subject and to be associated with the Subject's server. Wildcard name not allowed for EVCP+ Certificates.
	SubjectAltName-dNSName	✓		0		FQDN (Fully Qualified Domain Name) of application/server – Exact DNS for a Web Server or IP address or unique name of server, owned or controlled by the subject and to be associated with the Subject's server. Wildcard name not allowed for



EVCP+ Certificates.





SSL	./TLS Extended Validation	Serve	er Cert	ificate	s on S	Secure User Device
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain
						Name) of application/server – Exact
						DNS for a Web Server or IP address
		√				or unique name of server, owned or
		,				controlled by the subject and to be
						associated with the Subject's server.
						Wildcard name not allowed for
						EVCP+ Certificates.
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain
						Name) of application/server – Exact
						DNS for a Web Server or IP address
		√				or unique name of server, owned or
						controlled by the subject and to be
						associated with the Subject's server.
						Wildcard name not allowed for
						EVCP+ Certificates.
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain
						Name) of application/server – Exact
						DNS for a Web Server or IP address
		✓				or unique name of server, owned or
						controlled by the subject and to be
						associated with the Subject's server.
						Wildcard name not allowed for
						EVCP+ Certificates.
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain
						Name) of application/server – Exact
						DNS for a Web Server or IP address
		√				or unique name of server, owned or
						controlled by the subject and to be
						associated with the Subject's server.
						Wildcard name not allowed for
						EVCP+ Certificates.
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain
						Name) of application/server – Exact
						DNS for a Web Server or IP address
		✓				or unique name of server, owned or
						controlled by the subject and to be
						associated with the Subject's server.
						Wildcard name not allowed for
						EVCP+ Certificates.







	L/TLS Extended Validation	Serve	er Cert	ificate	s on S	Secure User Device
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Domain
						Name) of application/server – Exact
						DNS for a Web Server or IP address
						or unique name of server, owned or
		✓				controlled by the subject and to be
						associated with the Subject's server.
						Wildcard name not allowed for
						EVCP+ Certificates.
subjectKeyld	entifier	✓	False			
	keyldentifier	✓			Fixed	The Key Identifier comprises a four-
						bit field with a 0100 value, followed
						by the least significant 60 bits of the
						SHA-1 hash of the value or
						subjectPublicKey bit string (tag, not
						including the length and number of
D.P.						unused bit-string bits).
Policy Properties						
keyUsage		✓	True			
RoyCoago	digitalSignature	✓	Truc		S	True
						Tide
	nonRepudiation	✓			S	False
	keyEncipherment	√			S	True
	dataEncipherment	√			S	True
	<u> </u>	✓				
certificatePoli	T	· ·	False			4 0 474 4 4 40 5 0
	PolicyIdentifier	✓			0	1.3.171.1.1.10.5.3
	policyQualifierID	· ·			S	Id-qt-1 (CPS)
	qualifier	· ·			S	https://repository.luxtrust.lu
	policyQualifierID	<u> </u>			S	Id-qt-2 (User Notice)
	noticeNumbers	✓				
	DisplayText	•				ETSI TS 102 042 EVCP+ compliant
						certificate, on Secure User Device,
						produced by SSL CA, 2048-bit key
						size, (1) or (2) years validity, and a
						key usage combining digital
						signature (dS bit), key and data
						encryption as well as extended key
						usage for server and client
						authentication.
		/				0.4.0.2042.1.5
	Policyldentifier	✓				0.1.0.2012.1.0
Extended Ke	-	*	False			0.110.2012.110
Extended Ke	-		False		S	True







SSL	SSL/TLS Extended Validation Server Certificates on Secure User Device								
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value			
	emailProtection	✓			S	False			

3.3.21 LuxTrust Object (or Code) Signing Certificates

LuxTrust Code Signing Certificates are ETSI TS 102 042 LCP Certificates not certified as generated on SSCD, with creation of the keys by the Subscriber, with a 2048-bit key size and one (1) or three (3) years validity from issuing start date.

These LuxTrust Code Signing Certificates are compliant with and include the OID reference of the LCP certificate policy of the ETSI Technical Standard 102 042 (i.e., 0.4.0.2042.1.3).

The usage purpose of these LuxTrust Code Signing Certificates is the purpose of digital signature. The LuxTrust LCP Code Signing Certificates include the corresponding LuxTrust LCP OID, i.e., <1.3.171.1.1.10.5.4>.

The following table provides the description of the fields for LuxTrust Code Signing Certificates.

	LuxTrust LCP Code Signing Certificate Profile										
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value					
Base Profi	Base Profile										
Version		✓	False								
					S	Version 3 Value = "2"					
SerialNum	ber	✓	False								
					FDV	Validated on duplicates.					
signatureA	lgorithm	✓	False								
	algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256 with RSA Encryption.					
signatureV	/alue	✓	False								
					D	Issuing CA Signature.					
issuer		✓	False		S						
	countryName	✓			S	LU					
	commonName	✓			S	LuxTrust SSL CA x ¹⁸					
	organizationName	✓			S	LuxTrust S.A.					
validity		✓	False								
	NotBefore	✓			D	Certificate generation process date/time.					
	NotAfter	~			D	Certificate generation process date/time + 12; 36 months					
subject		✓	False								
	countryName	~		М	D	Country in which the company's registered office is established (as specified in the memorandum and articles of association).					







LuxTrust LCP Code Signing Certificate Profile								
Attribute Field		IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value		
						(ISO3166)		
stateOrPro	ovinceName	✓		0	D			
localityNar	me	√		М	D	Location in which the company's registered office is established (as specified in the memorandum and articles of association or an equivalent document)		
organizatio	onName	√		М	D	Names as in articles of association, including the legal form (as specified in the memorandum and articles of association or an equivalent document)		
organizatio	onalUnitName1	✓		0	D	As provided by Subscriber		
organizatio	onalUnitName2	√		0	D	As provided by Subscriber		
commonN	ame	~		М	D	Names as in articles of association, including the legal form (as specified in the memorandum and articles of association or an equivalent document)		
serialNuml	ber	√		0	D	NA or Serial Number as provided by subscriber		
emailAddro	ess	✓		0	D	Subject's email address if available		
subjectPublicKeyInfo		✓	False					
algorithm		✓				Public Key: Key length: 2048 (RSA); public		
subjectPul	blicKey	✓		М		exponent: Fermat-4 (=010001).		
Extensions								
Authority Properties								
authorityKeyIdentifier		✓	False					
keyldentific	er	✓				SHA-1 Hash of the LuxTrust SSL CA public key		
authorityInfoAccess		✓	False					
AccessMe	thod	✓				ld-ad-1		
accessLoc	ation	✓				http://ocsp.luxtrust.lu		
AccessMe	thod	√				ld-ad-2		
accessLoc	ation	✓				http://ca.luxtrust.lu/LTSSLCAx18.crt		
CRLDistributionPoint		✓	False					
distribution	Point	✓			S			
fullName		✓				http://crl.luxtrust.lu/LTSSLCAx 18.crl		
Subject Properties		1	ı	I				







	LuxTrust LCP Code Signing Certificate Profile								
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value			
subjectAltName		✓	False						
	Rfc822Name	√		0	D	Subject's email address			
subjectKey	rldentifier	✓	False						
	keyldentifier	~			Fixed	The Key Identifier comprises a four-bit field with a 0100 value, followed by the least significant 60 bits of the SHA-1 hash of the value or subjectPublicKey bit string (tag, not including the length and number of unused bit-string bits).			
Policy Prop	perties								
keyUsage		✓	True						
	digitalSignature	✓			S	True			
	nonRepudiation	√			S	False			
	keyEncipherment	✓			S	False			
	dataEncipherment	√			S	False			
certificateP	Policies	✓	False						
	Policyldentifier	√			S	1.3.171.1.1.10.5.4			
	policyQualifierID	✓			S	Id-qt-1 (CPS)			
	qualifier	✓			S	http://repository.luxtrust.lu			
	policyQualifierID	✓			S	Id-qt-2 (User Notice)			
	noticeNumbers								
	DisplayText	~			S	LuxTrust Code Signing Certificate. Not supported by SSCD, Key Generation by Subscriber. GTC, CP and CPS on http://repository.luxtrust.lu . Signed by an SSL CA.			
	Policyldentifier	✓			S	0.4.0.2042.1.3			
Extended h	Extended Key Usage		False						
	Object Signing	✓			S	Set			
Netscape F	Proprietary								
NetscapeC	CertificateType	✓	False						
	Object Signing	✓			S	Set			

3.3.22 LuxTrust SSL/TLS Certificate for Client Authentication

LuxTrust SSL/TLS Client Certificates are ETSI TS 102 042 LCP Certificates not certified as generated on SSCD, with creation of the keys by the Subscriber, with 2048-bit key size and one (1) or three (3) years validity from issuing start date.





These LuxTrust SSL/TLS Client Certificates are compliant with and include the OID reference of the LCP certificate policy of the ETSI Technical Standard 102 042 (i.e., 0.4.0.2042.1.3).

The usage purpose of these LuxTrust SSL/TLS Client Certificates is the combined purpose of digital signature, key and data encryption. The LuxTrust LCP Server Certificates include the corresponding LuxTrust LCP OID for SSL/TLS client certificates, i.e., <1.3.171.1.1.1.0.5.5>.

The following table provides the description of the fields for LuxTrust Server Certificates.

	LuxTrust	SSL (Client I	LCP Cer	tificat	e Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
Base						
Profile						
Version		✓	False			
					S	Version 3 Value = "2"
SerialNumbe	er	✓	False			
					FDV	Validated on duplicates.
signatureAlg	orithm	✓	False			
	algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256 with RSA Encryption.
signatureVal	lue	√	False			
					D	Issuing CA Signature.
issuer		√	False		S	
	countryName	✓			S	LU
	commonName	✓			S	LuxTrust SSL CA
	organizationName	√			S	LuxTrust S.A.
Validity		✓	False			
	NotBefore	√			D	Certificate generation process date/time.
	NotAfter	*			D	Certificate generation process date/time + 12;36 Months
subject		✓	False			
	countryName	√		М	D	Country in which the company's or institution's registered office is established (as specified in the memorandum and articles of association). (ISO3166)
	stateOrProvinceName	✓		0	D	
	localityName	√		М	D	Location in which the company's registered office is established (as specified in the memorandum and articles of association or an equivalent document)
	organizationName	*		М	D	Names as in articles of association, including the legal form (as specified in the memorandum and articles of association or an equivalent document)
	organizationalUnitName 1	✓		0	D	As provided by Subscriber







LuxTrust SSL Client LCP Certificate Profile						
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
	organizationalUnitName 2	✓		0	D	As provided by Subscriber
	commonName	✓		М	D	As provided by Subscriber
	serialNumber	✓		0	D	Serial Number as provided by subscriber
	emailAddress	~		0	D	Subject's email address
subjectPublic	: ::::::::::::::::::::::::::::::::::::	✓	False			
	algorithm	√				Public Key: Key length: 2048 bit (RSA)
	subjectPublicKey	√		М		public exponent: Fermat-4 (=010001).
Extensions						
Authority Properties						
authorityKey	 dentifier	✓	False			
	keyldentifier	✓	1 4130			SHA-1 Hash of the LuxTrust SSL CA
	Royldonamor					public key
authorityInfo	Access	√	False			
	AccessMethod	√				ld-ad-1
	accessLocation	V				http://ocsp.luxtrust.lu
	AccessMethod	✓				Id-ad-2
	accessLocation	√				http://ca.luxtrust.lu/LTSSLCAx ¹⁸ .crt
cRLDistributi	ionPoint	✓	False			
	distributionPoint	√			S	
	fullName	√				http://crl.luxtrust.lu/LTSSLCAx18.crl
Subject Properties						
subjectAltNa	me	√	False			
Subject-ili ta	Rfc822Name	✓	1 disc	0	D	Certificate Holder's email address
subjectKeyld	lentifier	✓	False			
	keyldentifier	V			Fixed	The Key Identifier comprises a four-bifield with a 0100 value, followed by the least significant 60 bits of the SHA-1 has of the value or subjectPublicKey bit string (tag, not including the length and number of unused bit-string bits).
Policy						
Properties		✓	Truc			
keyUsage	digitalSignature	✓	True		S	True
	digitalSignature				_ S	i iue
	nonRepudiation	√			S	False
	keyEncipherment	√			S	True
	dataEncipherment	√			S	True







	LuxTrust SSL Client LCP Certificate Profile						
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value	
certificatePo	olicies	✓	False				
	Policyldentifier	✓				1.3.171.1.1.10.5.5	
	policyQualifierID	√			S	Id-qt-1 (CPS)	
	qualifier	✓			S	https://repository.luxtrust.lu	
	policyQualifierID	✓			S	Id-qt-2 (User Notice)	
	noticeNumbers						
	DisplayText	√				LuxTrust Standard SSL/TLS Client	
						Authentication Certificate. Not supported	
						by SSCD, Key Generation by Subscriber.	
						GTC, CP and CPS on	
						http://repository.luxtrust.lu.	
						Signed by a SSL CA.	
	Policyldentifier	✓				0.4.0.2042.1.3	
Extended K	ey Usage	√	False				
	serverAuth	✓			S	False	
	clientAuth	✓			S	True	
	emailProtection	✓			S	True	

3.3.23 Timestamping Certificate Profile

LuxTrust Timestamping Certificates are issues by the LuxTrust Timestamping CA with keys located on HSM devices, with generation by LuxTrust CSP according to the processes and procedures described in the applicable CP, with a 2048-bit key size and 5 years validity from issuing start date.

The profiles of the public key certificates used by the LuxTrust TSA comply with the RFC 3161 [6]. The full set of rules used by LuxTrust S.A. for the issuing and management of these certificates that are issued by a LuxTrust CA, as well as their extensions, are described in the LuxTrust Internal Certificate Policy for PKI Participants other than Subscribers and Relying Parties.

	LuxTrust Timestamping Certificate Profile						
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value	
Base							
Profile							
Version		✓	False				
					S	Version 3 Value = "2"	
SerialNumbe	SerialNumber		False				
					FDV	Validated on duplicates.	
signatureAlg	orithm	✓	False				
	algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256	
						with RSA Encryption.	
signatureVal	lue	✓	False				
					D	Issuing CA Signature.	
issuer	issuer		False		S		
	countryName	✓			S	LU	
	commonName	✓			S	LuxTrust Global Timestamping CA x 18	





	LuxTrust Timestamping Certificate Profile					
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
	organizationName	✓			S	LuxTrust S.A.
Validity		√	False			
	NotBefore	√			D	Certificate generation process date/time.
	NotAfter	✓			D	Certificate generation process date/time +
						60 Months
subject		✓	False			
	commonName	✓		М	D	tts.luxtrust.lu
	localityName	✓		М	D	Capellen
	organizationName	✓		М	D	LuxTrust S.A.
	organizationalUnitName 1	√		М	D	PKI Entity
	countryName	✓		0	D	LU
subjectPublic	KeyInfo	✓	False			
	algorithm	✓				Public Key: Key length: 2048 bit (RSA);
	subjectPublicKey	✓		М		public exponent: Fermat-4 (=010001).
Extensions						
Authority						
Properties						
authorityKey	Identifier	√	False			
	keyldentifier	\				SHA-1 Hash of the LuxTrust Timestamping CA public key
authorityInfo	Access	✓	False			, , , , , , , , , , , , , , , , , , ,
	AccessMethod	✓				Id-ad-2
	accessLocation	✓				http://ca.luxtrust.lu/LTGTSACAx ¹⁸ .crt
	AccessMethod	✓				Id-ad-1
	accessLocation	√				http://ocsp.luxtrust.lu
cRLDistributi	onPoint	✓	False			
	distributionPoint	✓			S	
	fullName	✓				http://crl.luxtrust.lu/LTGTSACAx ¹⁸ .crl
Subject Properties						
subjectAltNa	me	√	False			
,	Rfc822Name	√		0	D	info@luxtrust.lu
subjectKeyld		√	False			_
	keyldentifier	√			Fixed	The Key Identifier comprises a four-bit
	•					field with a 0100 value, followed by the
						least significant 60 bits of the SHA-1 hash
						of the value or subjectPublicKey bit string
						(tag, not including the length and number
						of unused bit-string bits).
Policy						
Properties						
keyUsage		√	True			
	digitalSignature	√			S	True
	nonRepudiation	✓			S	False







	LuxTrust Timestamping Certificate Profile					
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value
	keyEncipherment	~			S	False
	dataEncipherment	✓			S	False
Extended Ke	ey Usage	~	False			
	TimeStamping	✓			S	Set
	(1.3.6.1.5.5.7.3.8)					
Private Key	Usage Period	✓	False			
	Usage period (2.5.29.16)	~		М	D	Certificate generation process date/time +
						12 Months
certificatePo	licies	~	False			
	Policyldentifier	~				1.3.171.1.1.10.8.1
	policyQualifierID	✓			S	Id-qt-1 (CPS)
	qualifier	✓			S	https://repository.luxtrust.lu
	policyQualifierID	✓			S	Id-qt-2 (User Notice)
	noticeNumbers					
	DisplayText	✓				LuxTrust LCP certificate compliant with
						ETSI TS 102 042. Sole authorised usage:
						Signature of LuxTrust Trusted Time Stamp
						tokens generated by LuxTrust time-
						stamping authority.
	PolicyIdentifier	✓				0.4.0.2042.1.3

3.3.24 Certificate extensions

X.509 v3 extensions are supported and used as indicated in the Certificates profiles as described in the present document.

3.3.25 Algorithm object identifiers

Algorithms OID are conforming to IETF RFC 3279 [10] and RFC 5280 [11].

3.3.26 Name forms

Name forms are in the X.500 distinguished name form as implemented in RFC 3739 [12].

3.3.27 Name constraints

Name constraints are supported as per RFC 5280 [11].

3.3.28 Certificate policy object identifier

Certificate policy object identifiers are used as per RFC 3739 [12].

3.3.29 Usage of Policy Constraints extension

Usage of Policy Constraints extension is supported as per RFC 5280 [11].

3.3.30 Policy qualifiers syntax and semantics

The use of policy qualifiers defined in RFC 5280 [11] is supported.

3.3.31 Processing semantics for the critical Certificate Policies

Not applicable.









3.4 CRL profile

In conformance with the IETF PKIX RFC 2459, the LuxTrust CAs support CRLs compliant with:

- Version numbers supported for CRLs
- CRL and CRL entry extensions populated and their criticality.

The profile of the CRL is provided in the table below:

	LuxTrust CRL Profile
Field	Comments
Version	v2
Signature	Sha1RSA
Issuer	<subjectca></subjectca>
thisUpdate	<creation time=""></creation>
nextUpdate	<pre><creation +="" 100="" ca="" days="" for="" global="" root="" time=""></creation></pre>
	<creation (4="" +="" 30="" 4,5="" and="" for="" hours="" minutes)="" p="" subordinate<="" time=""></creation>
	Qualified and SSL CAs>
	<pre><creation +="" 24="" cas="" for="" hours="" other="" subordinate="" time=""></creation></pre>
revokedCertificates	
userCertificate	<certificate number="" serial=""></certificate>
revocationDate	<revocation time=""></revocation>
crlEntryExtensions	
reasonCode	<pre></pre> <pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre></pre>
crlExtensions	
cRLNumber	Non-critical <subject ca="" identifier="" key=""></subject>
authorityKeyldentifier	Non-critical <ca assigned="" number="" unique=""></ca>

3.4.1 Version number(s)

See section 3.4.

The CA will support X.509 version 2 CRLs, retrievable by online at http://crl.luxtrust.lu.

As an alternative to CRLs the CA may provide other web based or "other" revocation checking service.

3.4.2 CRL entry extensions

See section 3.4.

3.5 OCSP profile

The OCSP profile follows IETF PKIX RFC 2560 OCSP v1 and v2. No OCSP extensions are supported. The LuxTrust CAs support signed status requests, and multiple Certificates status requests in one OCSP request as long as they are signed by the same CA.

3.5.1 Version number(s)

See section 3.5.

3.5.2 OCSP extensions

See section 3.5.

