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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:			
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 • 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 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 TKO	21/12/2012	Added CP SSL/TLS Certificate for Client Authentication Added CP non SSCD NCP+ Certificates supporting Advanced Electronic Signatures for Mass Signature Services Various syntactical and format corrections			





VFRSION 1 17

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				







Table of content

DOCUME	NT INFORMATION	2
VERSION	I HISTORY	2
TABLE O	F CONTENT	4
INTELLE	CTUAL PROPERTY RIGHTS	6
REFERE	NCES	7
1	INTRODUCTION	8
1.1	THE LUXTRUST PROJECT	8
1.2	GOAL OF THE LUXTRUST PKI	
1.3	LuxTrust PKI Hierarchy	
2	LUXTRUST CERTIFICATION AUTHORITIES	
2.1	Two-level CA hierarchy	
3	CERTIFICATE AND CRL PROFILES	12
3.1	CERTIFICATE TYPES	12
3.2	LuxTrust Certification Authorities – Certificates profiles	27
3.2.1	LuxTrust Global Root CA	27
3.2.2	LuxTrust Global Qualified CA	28
3.2.3	LuxTrust Privacy+ CA	29
3.2.4	LuxTrust SSL CA	30
3.2.5	LuxTrust TEST CA	31
3.2.6	LuxTrust Internal CA	33
3.2.7	LuxTrust TSA (Timestamping) CA	34
3.2.8	LuxTrust e-Government CA	35
3.2.9	Certificate extensions	36
3.2.10	Algorithm object identifiers	
3.2.11	Name forms	
3.2.12	Name constraints	
3.2.13	Certificate policy object identifier	36
3.2.14	Usage of Policy Constraints extension	36
<i>3.2.15</i>	Policy qualifiers syntax and semantics	
3.3	LuxTrust End-entity – Certificates profiles	
3.3.1	Certificate profiles	
3.3.2	Version number(s)	
3.3.3	LuxTrust SSCD QCP+ Certificates supporting Qualified Signatures	
3.3.4	LuxTrust SSCD NCP+ Certificates supporting Authentication & Encryption	
3.3.5	LuxTrust non SSCD QCP Certificates supporting Advanced Electronic Signatures	
3.3.6	LuxTrust non SSCD NCP Certificates supporting Authentication & Encryption	
3.3.7	LuxTrust Signing Server Account NCP Certificates supporting Signature, Authentication & Encryption	
3.3.8	LuxTrust NCP+ Certificates supporting Mass Signature Services	
3.3.9	LuxTrust SSCD LCP+ Integration Certificates supporting Electronic Signatures	
3.3.10	LuxTrust SSCD LCP+ Integration Certificates supporting Authentication & Encryption	
3.3.11	LuxTrust Signing Server Account LCP Certificates supporting Signature, Authentication & Encryption for Increases	
	purposes	59



VFRSION 1 17

3.3.12	LuxTrust Smartcard LORA Certificates supporting Signature for LRAO purposes	62
3.3.13	LuxTrust Smartcard LORA Certificates supporting Authentication & Encryption for LRAO purposes	64
3.3.14	LuxTrust non SSCD Mass LRAO QCP Certificates supporting Advanced Electronic Signatures	66
3.3.15	LuxTrust eID SSCD QCP+ Certificates supporting Qualified Signatures	69
3.3.16	LuxTrust eID SSCD NCP+ Certificates supporting Authentication & Encryption	72
3.3.17	LuxTrust NCP+ Certificates supporting SEAL Signature Services	74
3.3.18	LuxTrust SSL/TLS Standard Server Certificates – LCP certificates supporting Signature, Encryption	
3.3.19	SSL/TLS Extended Validation Server Certificates – EVCP certificates supporting Signature, Encryption	
3.3.20	SSL/TLS Extended Validation Server Certificates - EVCP+ certificates supporting Signature,	Authentication &
	Encryption	88
3.3.21	LuxTrust Object (or Code) Signing Certificates	95
3.3.22	LuxTrust SSL/TLS Certificate for Client Authentication	97
3.3.23	Timestamping Certificate Profile	100
3.3.24	Certificate extensions	102
3.3.25	Algorithm object identifiers	102
3.3.26	Name forms	102
3.3.27	Name constraints	102
3.3.28	Certificate policy object identifier	102
3.3.29	Usage of Policy Constraints extension	102
3.3.30	Policy qualifiers syntax and semantics	102
3.3.31	Processing semantics for the critical Certificate Policies	102
3.4	CRL PROFILE	103
3.4.1	Version number(s)	103
3.4.2	CRL entry extensions	103
3.5	OCSP PROFILE	103
3.5.1	Version number(s)	103
3.5.2	OCSP extensions	103





VERSION 1.17

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References

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- [2] European Data Protection Directive 95/46/EC of the European Parliament and of the Council of 24 October 1995 on the protection of individuals with regards to the processing of personal data and on the free movement of such data.
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- [4] ETSI TS 102 042 Electronic Signatures and Infrastructures (ESI); Policy requirements for certification authorities issuing public key certificates.
- [5] ICAO (International Civil Aviation Organization) Machine Readable Travel Documents Technical Report PKI for Machine Readable Travel Documents offering ICC Read-Only Access, version 1.1, October 01, 2004
- [6] ETSI TS 102 023 Electronic Signatures and Infrastructures (ESI); Policy requirements for time-stamping authorities.
- [7] Loi du 22 mars 2000 relative à la création d'un Registre national d'accréditation, d'un Conseil national d'accréditation, de certification, de normalisation et de promotion de la qualité et d'un organisme luxembourgeois de normalisation.
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- [13] Guidelines for the Issuance And Management Of Extended Validation Certificates. CA/Browser Forum. Latest version in force
- [14] Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates. CA/Browser Forum. Latest version in force.
- [15] eID Certificate Life Cycle Procedure latest version in force
- [16] RNCID: National Register of identity cards as specified in the national law 19/06/2013, section 5, article 16



VERSION 1.17



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.



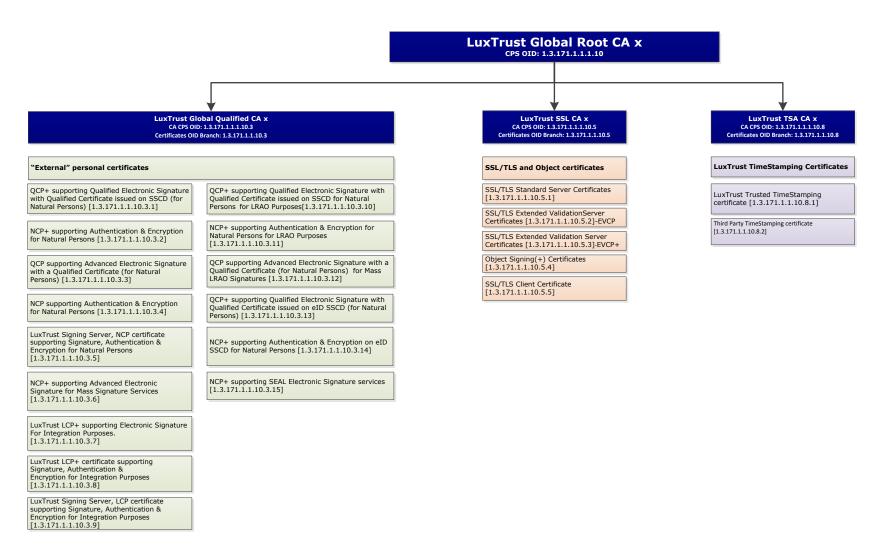


Figure 1 - LuxTrust running CA Hierarchy

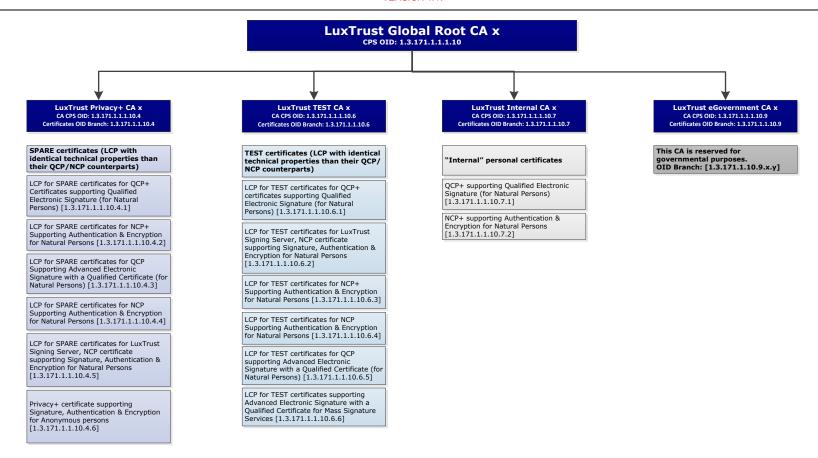


Figure 2 - LuxTrust foreseen CA Hierarchy

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	1.3.171.1.1.1.10.2.3 .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.



Page 12 de 103





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	1.3.171.1.1.1.10.2.3 .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	LuxTrust Privacy+ Certification 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			
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



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.	





VFRSION 1 17

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)		





VERSION 1 17

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	1.3.171.1.1.10.2.6 .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
	### CPS Summary CPS Summary	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
	Tull Of 3 OTE Chair	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
	5 LuxTrust SSL CA	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
		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
	6	1	LCP for TEST certificates for QCP+ certificates supporting Qualified Electronic Signature (for Natural Persons)		-	-	1.3.171.1.1.10.6.1	0.4.0.2042.1.3
	LuxTrust TEST CA	2	LCP for TEST certificates for LuxTrust Signing Server, NCP certificate supporting Signature, Authentication & Encryption for Natural Persons		-	-	1.3.171.1.1.10.6.2	0.4.0.2042.1.3
		3	LCP for TEST certificates for NCP+ Supporting Authentication & Encryption for Natural Persons		-	-	1.3.171.1.1.10.6.3	0.4.0.2042.1.3
		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 _LuxTrust Global	1	LuxTrust Trusted TimeStamping certificate	LuxTrust Trusted TimeStamping certificate			1.3.171.1.1.10.8.1	
	Timestamping CA	2	Third Party TimeStamping certificate	Third Party TimeStamping certificate			1.3.171.1.1.10.8.2	
	8	0	Master document	N/A			1.3.171.1.1.10.9.0	N/A
	LuxTrust eGovernment CA			Reserved for future us	е			



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		X		Issuing CA Signature	
Validity					
NotBefore		Х		Key Generation Process Date/Time	
NotAfter		×		Key Generation Process Date/Time + 10 years	Fixed
SubjectPublicKeyInfo		x		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
authorityKeyldentifier	{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.



Page 27 de 103





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

3.2.2 LuxTrust Global Qualified CA

	LuxTı	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.



Page 28 de 103





VERSION 1.17

	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".



Page 29 de 103





	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.



Page 30 de 103





VERSION 1 17

		LuxTrus	t 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		1.3.171.1.1.1.10.5	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	
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			
Version		Х		V3			
SerialNumber		Х		As provided by CA or by LuxTrust S.A.			
SignatureAlgorithm							

 $^{^{7}}$ 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.



Page 31 de 103





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

 $^{^{8}}$ 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.



VERSION 1 17

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		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 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			
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			

 $^{^{9}}$ 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.



Page 33 de 103





LuxTrust Internal CA								
Base Profile	OID	Included	Critical	Value				
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			

3.2.7 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		Х		1.3.171.1.1.10.8	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

 $^{^{10}}$ 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.



Page 34 de 103





	LuxTrust Global Timestamping CA						
Base Profile	OID	Included	Critical	Value			
authorityKeyldentifier	{id-ce 35}	X	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		

3.2.8 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		
organizationName		Х		LuxTrust S.A.	Fixed		
CertificatePolicies	{id-ce 32}	Х	FALSE				
policyldentifier		Х		1.3.171.1.1.10.9	Fixed		
policyQualifiers				N/a			

 $^{^{11}}$ 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.



Page 35 de 103





LuxTrust eGovernment CA					
Base Profile	OID	Included	Critical	Value	
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 1.3.171.1.10.3.2.
- 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 1.3.171.1.10.3.3, and
 - One LuxTrust NCP¹³ certificate for Natural Persons for the purpose of data/entity authentication and encryption facilities, under the Certificate Policy OID 1.3.171.1.1.10.3.4.
- 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 1.3.171.1.110.3.5.

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.
- LuxTrust SSL/TLS Client Certificates: Compliant ETSI TS 102 042 [4] Certificate not on SSCD Hardware token, under the Certificate OID Policy 1.3.171.1.11.05.5.

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	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value				
Base										
Profile										
Version		✓	False							
					S	Version 3 Value = "2"				
SerialNumbe	er	✓	False							
					FDV	Validated on duplicates.				
signatureAlge	orithm	✓	False							
	Algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256 with				
						RSA Encryption.				
signatureVal	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				
	commonName	✓		М	D	PRO and PRIVATE products: Concatenation of given name(s) and surname(s) as on ID card separated by a "Space" character.				

 $^{^{14}}$ 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	Trust SS	CD QC	CP+ Ce	rtifica	te Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value
	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
	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						
authorityKeyl	dentifier	✓	False			
	keyldentifier	√				SHA-1 Hash of the LuxTrust Global Qualified CA public key
authorityInfoA	Access	✓	False			







LuxTrust SSCD QCP+ Certificate Profile									
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value			
	AccessMethod	√				Id-ad-2			
	accessLocation	√				http://ca.luxtrust.lu/LTGQCAx ¹⁸ .crt			
	AccessMethod	√				Id-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	False			
	nonRepudiation	✓			S	True			
	keyEncipherment	✓			S	False			
	dataEncipherment	✓			S	False			
certificatePoli	cies	✓	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 SSCD			
						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			
QualifiedCert	ificateStat								
	QcCompliance	✓		М	S	0.4.0.1862.1.1			
	QcLimitValue			0	D	As provided by LuxTrust S.A. in compliance			
	On Detention Deviced			-	_	with [5]			
	QcRetentionPeriod			0	D	As provided by LuxTrust S.A. in compliance with [5]			
	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	cTrust S	SSCD N	ICP+ 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	orithm	√	False			
	algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256 with
						RSA Encryption.
signatureValu	ie .	✓	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
	sumame	√		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)







	LuxT	rust S	SCD N	ICP+ Ce	rtifica	te Profile
Attribute	Field	IN 14	CE ¹⁵	O/M ¹⁶	CO 17	Value
	emailAddress	✓		0	D	Subject's email address
	title	~		M	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	√		0	D	PRO products only: Company/institution department or other information item
subjectPublich	KeyInfo	✓	False			
	algorithm	✓				Public Key: Key length: 2048 bit (RSA); public
	subjectPublicKey	✓		М		exponent: Fermat-4 (=010001).
Extensions Authority Properties						
authorityKeylo	lentifier	✓	False			
	keyldentifier	√				SHA-1 Hash of the LuxTrust Global Qualified CA public key
authorityInfoA		√	False			
	AccessMethod	✓ ✓				ld-ad-2
	accessLocation	✓				http://ca.luxtrust.lu/LTGQCAx ¹⁸ .crt
	AccessMethod	✓				Id-ad-1
-DIDI-LU C	accessLocation	√	F .			http://ocsp.luxtrust.lu
cRLDistributio		→	False		•	
	distributionPoint fullName	<i>√</i>			S	http://crl.luxtrust.lu/LTGQCAx ¹⁸ .crl







	Lux	Trust S	SSCD N	NCP+ Ce	ertifica	te Profile
Attribute	Field	IN 14	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
Subject						
Properties						
subjectAltNan	ne	√	False			
	Rfc822Name	√		0	D	Certificate Holder's email address
subjectKeylde		√	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
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	~				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

3.3.5 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.







	LuxT	rust n	on SS	CD QCP	Certif	icate 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	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	IN¹4	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	✓		.,		Public Key: Key length: 2048 bit (RSA); public exponent: Fermat-4 (=010001).
	subjectPublicKey	•		M		orporonal contact (orosoty)
Extensions Authority Pro	postico					
Authority Pro		√	False			
addiontyrey	keyldentifier	· ✓	1 4136			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







	LuxTrust non SSCD QCP Certificate Profile									
Attribute	Field	IN¹4	CE ¹⁵	O/M ¹⁶	CO17	Value				
cRLDistribut	ionPoint	✓	False							
	distributionPoint	✓			S					
	fullName	✓				http://crl.luxtrust.lu/LTGQCAx ¹⁸ .crl				
Subject Prop	perties									
subjectAltNa	ıme	✓	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 or 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	licies	✓	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 SSCD compliant with ETSI TS 101 456 QCP certificate policy. Key Generation by CSP. Sole Authorised Usage : Advanced Electronic Signature supported by a Qualified cert				
	PolicyIdentifier	✓				0.4.0.1456.1.2				
QualifiedCer	tificateStat									
	QcCompliance	✓		М	S	0.4.0.1862.1.1				
	QcLimitValue			0	D	As provided by LuxTrust S.A. in compliance with [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	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				







	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	✓		M	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						







LuxTrust non SSCD NCP Certificate 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 Qualified CA			
						public key			
authorityInfo	Access	V	False						
	AccessMethod	√				Id-ad-2			
	accessLocation	√				http://ca.luxtrust.lu/LTGQCAx ¹⁸ .crt			
	AccessMethod	√				ld-ad-1			
	accessLocation	√				http://ocsp.luxtrust.lu			
cRLDistribut	ionPoint	√	False						
	distributionPoint	√			S				
	fullName	✓				http://crl.luxtrust.lu/LTGQCAx ¹⁸ .crl			
Subject									
Properties									
subjectAltNa		√	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 the			
						least significant 60 bits of the SHA-1 has			
						of the value or subjectPublicKey bit strin			
						(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			
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 SSC			
	. ,					compliant with ETSI TS 102 042 NC			
						certificate policy. Key Generation by CSP.			
						Sole Authorised Usage: Data or Entit			
	1		1			Dole Authorised Usage. Data of Entit			







	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	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	jorithm	✓	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	cate Profile
Attribute	Field	IN¹4	CE ¹⁵	O/M ¹⁶	CO17	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	✓		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
	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: 2048 bit (RSA);
	subjectPublicKey	✓		М		public exponent: Fermat-4 (=010001).
Extensions						







		Signing				
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value
Authority						
Properties		✓				
authorityKey			False			
	keyldentifier	•				SHA-1 Hash of the LuxTrust Globa
		✓				Qualified CA public key
authorityInfo			False			
	AccessMethod					Id-ad-2
	accessLocation					http://ca.luxtrust.lu/LTGQCAx 18.crt
	AccessMethod					ld-ad-1
	accessLocation					http://ocsp.luxtrust.lu
cRLDistribut	1		False			
	distributionPoint	√			S	10
	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 the
						least significant 60 bits of the SHA-1 has
						of the value or subjectPublicKey bit string
						(tag, not including the length and numbe
						of unused bit-string bits).
Policy						
Properties						
keyUsage	T	√	True			
	digitalSignature	✓			S	True
	nonRepudiation				S	True
	keyEncipherment	✓			S	True
	dataEncipherment	✓			S	True
certificatePo	1	✓	False			
	PolicyIdentifier	✓				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	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	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
	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			
	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	✓		М	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	IN ¹⁴	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	√				Public Key: Key length: 2048 bit (RSA);
	subjectPublicKey	√		М		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/LTGQCAx18.crt
	AccessMethod	√				Id-ad-1
	accessLocation	√				http://ocsp.luxtrust.lu
cRLDistributionPoint		✓	False			
	distributionPoint	✓			S	
	fullName	√				http://crl.luxtrust.lu/LTGQCAx 18.crl
Subject Properties						
subjectAltName		√	False			
	Rfc822Name	√		0	D	Certificate Holder's email address
subjectKeyIdentifier		√	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			







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
	digitalSignature	√			S	False
	nonRepudiation				S	True
	keyEncipherment	√			S	False
	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.
	Policyldentifier	✓				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	<u>·</u>	√	False								
					FDV	Validated on duplicates.					







	LuxTrus	t SSCD	LCP+ I	ntegra	tion C	ertificate Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
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		√	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	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						
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
	AccessMethod	√				Id-ad-1
	accessLocation	√				http://ocsp.luxtrust.lu
cRLDistributio	onPoint	√	False			
	distributionPoint	√			S	
	fullName	√				http://crl.luxtrust.lu/LTGQCAx ¹⁸ .crl
Subject Properties						
subjectAltNan	ne	√	False			
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	LuxTrus	t SSCD	LCP+ I	ntegra	tion C	ertificate Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value
	Rfc822Name	√		0	D	N/A
subjectKeyld	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 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
certificatePol	licies	√	False			
	PolicyIdentifier	✓				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 on
						SSCD compliant with ETSI TS 102 042 LCP+
						certificate policy. Key Generation by CSP. Sole
						Authorised Usage: Support of Integration
						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	✓	i aise			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	integra	tion Ce	ertificate Profile
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	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	1	✓	True			
	digitalSignature	✓			S	True
	nonRepudiation				S	False
	keyEncipherment	✓			S	True
	dataEncipherment	✓			S	True
certificatePoli	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 (Certific	cate 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 = "1.2.840.113549.1.1.5" – SHA1 with
						RSA Encryption.
signatureVal	ue	√	False			
					D	Issuing CA Signature.
Issuer		√	False		S	
	countryName	√			S	LU
	commonName	V			S	LuxTrust Global Qualified CA x18
	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	T	✓	False			
	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						
authorityKey	Identifier	✓	False			







	LuxTrust S	9.99				
Attribute	Field	IN¹4	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
	keyldentifier	√				SHA-1 Hash of the LuxTrust Globa
						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	ionPoint	✓	False			
	distributionPoint	✓			S	
	fullName	✓				http://crl.luxtrust.lu/LTGQCAx ¹⁸ .crl
Subject						
Properties						
subjectAltNa	ime	✓	False			
	Rfc822Name	√		0	D	N/A
subjectKeylo	dentifier	✓	False			
	keyldentifier	✓			Fixed	The Key Identifier comprises a four-b
						field with a 0100 value, followed by the
						least significant 60 bits of the SHA-1 has
						of the value or subjectPublicKey bit strir
						(tag, not including the length and number
						of unused bit-string bits).
Policy						
Properties						
keyUsage		√	True			
,	digitalSignature	✓			S	True
	nonRepudiation				S	True
	keyEncipherment	✓			S	True
	RoyEndiphormone					Tide .
	dataEncipherment	✓			S	True
	dataEnoiprioriioni					1146
certificatePo	licies	✓	False			
- Continuation C	Policyldentifier	√	1 disc			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)
					3	10-41-2 (OSEI NOLICE)
	noticeNumbers	✓				INTEGRATION Codes to the Code
	DisplayText					INTEGRATION Certificate not on SSCI
						compliant with ETSI TS 102 042 LC
						cert.policy. Key Generation by CSP. So
						Authorised Usage: Signature, Data
						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.

	LuxTru	st SSCD	LORA	QCP+	Certif	icate Profile
Attribute	Field	IN¹4	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
Base						
Profile						
Version	,	✓	False			
					S	Version 3 Value = "2"
SerialNumbe		✓	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			Worldis
	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	√		М	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						
authorityKeyl	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
cRLDistribution	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
subjectKeyId	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	CO17	Value
certificatePo	olicies	√	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
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	✓		M	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	signatureAlgorithm		False							
	algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256 with				
						RSA Encryption.				







	LuxTrus	t SSC	D LOR	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					







Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value
Attribute			CEI			
	Title	✓		М	D	"LuxTrust RA officer – LRS"
	organizationName	✓		М	D	"RA" & RA number & " – " & Name of the LuxTrust RA
	localityName	√		М	D	Country of RA (as in articles of association)
	organizationalUnitName	✓		М	D	RA code Constructed by LuxTrust
	organizationalUnitName	✓		0	D	RAO code Constructed by LuxTrust
sub	jectPublicKeyInfo	✓	False			
	Algorithm	✓				Public Key: Key length: 2048 bit (RSA); public
	subjectPublicKey	✓		М		exponent: Fermat-4 (=010001).
Extensions						
Authority Pro	pperties					
authorityKey	Identifier	✓	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/LTGQCAx18.crt
	AccessMethod	✓				ld-ad-1
	accessLocation	✓				http://ocsp.luxtrust.lu
cRLDistributi	ionPoint	✓	False			
	distributionPoint	✓			S	
	fullName	✓				http://crl.luxtrust.lu/LTGQCAx18.crl
Subject Prop	perties					
subjectAltNa	me	✓	False			
	Rfc822Name	✓		0	D	Certificate Holder's 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 the value of subjectPublicKey bit string (tag, not including the length and number of unused bit-string bits).
Policy Prope	rties					







	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	i r	✓	False					
		✓			FDV	Validated on duplicates.		
signatureAlgo		Y	False					
	Algorithm				S	OID = "1.2.840.113549.1.1.11" - SHA256 with		
		✓				RSA Encryption.		
signatureValu	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.	organizationName	√ ·	F-I		S	LuxTrust S.A.		
Validity	N. (D. C	√	False			Out to the second in a second at a time.		
	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	D	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"		
	organizationalUnitName 1	√		0	D	If the holder is underage: "Mineur jusqu'à : " &		
	organizationaloniti tamo i	· ·		9		(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.





LuxTrust eID SSCD QCP+ Certificate 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 Qualified	
						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	onPoint	✓	False				
	distributionPoint	✓			S		
	fullName	✓				http://crl.luxtrust.lu/LTGQCAx ¹⁸ .crl	
Subject							
Properties							
subjectAltNa	me	✓	False				
	Rfc822Name	✓		0	D	Subject email address	
subjectKeyld	lentifier	✓	False				
	keyldentifier	✓			Fixed	The Key Identifier comprises a four-bit fie	
						with a 0100 value, followed by the lea	
						significant 60 bits of the SHA-1 hash of t	
						value or subjectPublicKey bit string (tag, r	
						including the length and number of unused by	
						string bits).	
Policy						String bits).	
Properties							
keyUsage		√	True				
Reyosage	digitalSignatura	✓	True		S	False	
	digitalSignature	✓			1		
	nonRepudiation	✓			S	True	
	keyEncipherment	✓			S	False	
	dataEncipherment	· ·			S	False	
certificatePol			False				
	Policyldentifier	V				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 QCI	
						certificate policy. Key Generation by CSP.	
						Sole Authorised Usage: Support of Qualifi	
						Electronic Signature.	
	Policyldentifier	✓				0.4.0.1456.1.1	
			_		-		
QualifiedCert	tificateStat						







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	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	Validity		False				
	NotBefore	√			D	Certificate generation process date/time.	
	NotAfter	√			D	Certificate generation process date/time + 61	
						Months	
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	lentifier	✓	False			
	keyldentifier	√				SHA-1 Hash of the LuxTrust Global Qualified CA x public key
authorityInfoA	ccess	✓	False			
	AccessMethod	✓				ld-ad-2
	accessLocation	√				http://ca.luxtrust.lu/LTGQCAx ¹⁸ .crt
	AccessMethod	✓				ld-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			
	digitalSignature	√			S	True
	nonRepudiation				S	







	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	CO17	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
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 Server LCP Certificate Profile										
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	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					
subjectPubli	cKeyInfo	√	False								
	algorithm	√				Public Key: Key length: 2048 bit (RSA);					
	subjectPublicKey	√		М		public exponent: Fermat-4 (=010001).					
Extensions											
Authority Properties											
authorityKey	rldentifier	✓	False								
	keyldentifier	V				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/LTSSLCAx18.crt					
cRLDistribut	ionPoint	✓	False								
	distributionPoint	✓			S						
	fullName	√				http://crl.luxtrust.lu/LTSSLCAx18.crl					
Subject Properties											
subjectAltNa	ame	✓	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 Althorna 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
		ľ				URL for a Web Server or IP address or
						unique name of server.
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 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
	HoriNepudiation				3	1 dise
	keyEncipherment	✓			S	True
		<u> </u>				
	dataEncipherment	✓			S	True
certificatePo	l licies	✓	False			
	Policyldentifier	✓				1.3.171.1.1.10.5.1
	policyQualifierID	✓			S	Id-qt-1 (CPS)
	qualifier	✓			S	https://repository.luxtrust.lu
	policyQualifierID	✓			S	Id-qt-2 (User Notice)
	noticeNumbers					4. = (555)
	HOUGHAIHDEIS	1	1	<u> </u>	1	







	LuxTrust SSL Server LCP Certificate Profile										
Attribute	Field	IN ¹⁴	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.					
	PolicyIdentifier	√				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





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 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	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.				







	SSL/TLS Exten	ded V	alidati	on Ser	ver C	ertificates
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
signatureValu	ie	✓	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	<u> </u>	√	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
	stateOrProvinceName (OID: 2.5.4.8)	✓		M	D	the country level, at state/pr. 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 (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)







	SSL/TLS Exten	ded Va	alidatio	on Ser	ver C	ertificates
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)	✓		M	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 Exte	nded 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						
authorityKeyl	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	√				Id-ad-2
	accessLocation	√				http://ca.luxtrust.lu/LTSSLCAx 18.crt
cRLDistribution	onPoint	✓	False			
	distributionPoint	√			S	
	fullName	✓				http://crl.luxtrust.lu/LTSSLCAx18.crl
Subject Properties						
subjectAltNar	me	✓	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 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	V		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	alidatio	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	V		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.				
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		✓	True							
	digitalSignature	√			S	True				
	nonRepudiation	√			S	False				
	keyEncipherment	√			S	True				
	dataEncipherment	✓			S	True				
certificatePoli	cies	√	False							
	Policyldentifier	✓				1.3.171.1.1.10.5.2				
	policyQualifierID	√			S	Id-qt-1 (CPS)				
	qualifier	✓			S	https://repository.luxtrust.lu				
	policyQualifierID	✓			S	Id-qt-2 (User Notice)				
	noticeNumbers									
	DisplayText	Y				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.				
	Policyldentifier	√				0.4.0.2042.1.4				
Extended Key	-	√	False		2	Total				
	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.

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		✓	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







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
	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
subjectPublicl	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	√				ld-ad-1
	accessLocation	✓				http://ocsp.luxtrust.lu







Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	Value
	AccessMethod	√				ld-ad-2
	accessLocation	√				http://ca.luxtrust.lu/LTSSLCAx18.crt
RLDistributi	onPoint	✓	False			
	distributionPoint	✓			S	
	fullName	✓				http://crl.luxtrust.lu/LTSSLCAx 18.crl
Subject						
Properties						
ubjectAltNa	me	✓	False			
	SubjectAltName-dNSName			М		FQDN (Fully Qualified Doma
						Name) of application/server – Exa
						DNS for a Web Server or IP addres
						or unique name of server, owned
		✓				controlled by the subject and to be
						associated with the Subject's serve
						Wildcard name not allowed f
						EVCP+ Certificates.
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Doma
	oubject uname unorvanie					Name) of application/server – Exa
						DNS for a Web Server or IP addres
						or unique name of server, owned
		✓				controlled by the subject and to be
						associated with the Subject's serve
						Wildcard name not allowed f
						EVCP+ Certificates.
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Doma
	Subject Aithaine-unshaine					Name) of application/server – Exa
						DNS for a Web Server or IP addres
						or unique name of server, owned
		✓				,
						controlled by the subject and to be
						associated with the Subject's serve Wildcard name not allowed for
						EVCP+ Certificates.
	Cubic stAlthlamas dhIChlamas			_		
	SubjectAltName-dNSName			0		FQDN (Fully Qualified Doma
						Name) of application/server – Exa
						DNS for a Web Server or IP address
		✓				or unique name of server, owned
						controlled by the subject and to b
						associated with the Subject's serve
						Wildcard name not allowed for
		1	•			L EVOD : O ('f' (



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.







SSI	_/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.
subjectKeylde		√	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	V			S	True
certificatePoli	cies	✓	False			
	Policyldentifier	✓				1.3.171.1.1.10.5.3
	policyQualifierID	✓			S	Id-qt-1 (CPS)
	qualifier	√			S	https://repository.luxtrust.lu
	policyQualifierID	✓			S	Id-qt-2 (User Notice)
	noticeNumbers					
	DisplayText	V				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.
	Policyldentifier	√				0.4.0.2042.1.5
Extended Key	y Usage	√	False			
	serverAuth	✓			S	True
	clientAuth	✓			S	True







SSL	SSL/TLS Extended Validation Server Certificates on Secure User Device								
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO17	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	le											
Version		✓	False									
					S	Version 3 Value = "2"						
SerialNum	ber	✓	False									
					FDV	Validated on duplicates.						
signatureA	Igorithm	✓	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).						







	Lu	xTrust L	.CP Code	Signing (Certificate	e Profile
Attribute	Field	IN¹4	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value
						(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
	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)
	serialNumber	√		0	D	NA or Serial Number as provided by subscriber
	emailAddress	✓		0	D	Subject's email address if available
subjectPub	licKeyInfo	✓	False			
	algorithm	✓				Public Key: Key length: 2048 (RSA); public
	subjectPublicKey	✓		М		exponent: Fermat-4 (=010001).
Extensions						
Authority Pi	roperties					
authorityKe	yldentifier	✓	False			
	keyldentifier	√				SHA-1 Hash of the LuxTrust SSL CA public key
authorityInfo	oAccess	✓	False			
	AccessMethod	✓				Id-ad-1
	accessLocation	✓				http://ocsp.luxtrust.lu
	AccessMethod	✓				ld-ad-2
	accessLocation	✓				http://ca.luxtrust.lu/LTSSLCAx ¹⁸ .crt
CRLDistribu	utionPoint	✓	False			
	distributionPoint	√			S	
	fullName	✓				http://crl.luxtrust.lu/LTSSLCAx 18.crl
Subject Pro	perties		I	ı		







	LuxTrust LCP Code Signing Certificate Profile									
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	Value				
subjectAltN	lame	✓	False							
	Rfc822Name	✓		0	D	Subject's email address				
subjectKey	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 Prop	perties									
keyUsage		✓	True							
	digitalSignature	✓			S	True				
	nonRepudiation	✓			S	False				
	keyEncipherment	✓			S	False				
	dataEncipherment	√			S	False				
certificateP	Policies	√	False							
	PolicyIdentifier	✓			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.				
	PolicyIdentifier	✓			S	0.4.0.2042.1.3				
Extended h	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.





LuxTrust Global Root CA Certificate Specifications

VFRSION 1 17

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 C	lient 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	ue	✓	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
	localityName			IVI		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
		*				
		<u> </u>	l		I	







						e 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	l cKeyInfo	✓	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 SSL CA
						public key
authorityInfo	Access	✓	False			
	AccessMethod	✓				ld-ad-1
	accessLocation	✓				http://ocsp.luxtrust.lu
	AccessMethod	✓				ld-ad-2
	accessLocation	✓				http://ca.luxtrust.lu/LTSSLCAx ¹⁸ .crt
cRLDistributi		✓	False			The production of the control of the
CICEDISTIDU	distributionPoint	✓	1 alsc		S	
		✓			3	http://crl.luxtrust.lu/LTSSLCAx ¹⁸ .crl
Out to at	fullName					nttp://cri.luxtrust.lu/LTSSLCAx .cri
Subject						
Properties						
subjectAltNa	I	•	False			
	Rfc822Name	✓		0	D	Certificate Holder's email address
subjectKeylo	lentifier	✓	False			
	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 has
						of the value or subjectPublicKey bit string
						(tag, not including the length and numbe
						of unused bit-string bits).
Policy						5. Shadaa sh dunig bila).
Properties						
keyUsage		✓	True			
noy osaye	digitalSignature	✓	True		S	True
	ugitaioigilatui e					i i uc
	nonPonudiction	✓				Ealas
	nonRepudiation				S	False
		/				-
	keyEncipherment				S	True
	dataEncipherment	✓			_	
				i .	S	True







	LuxTrust SSL Client LCP Certificate Profile						
Attribute	Field	IN ¹⁴	CE ¹⁵	O/M ¹⁶	CO ¹⁷	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.	
	Policyldentifier	✓				Signed by a SSL CA. 0.4.0.2042.1.3	
Extended K	Extended Key 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	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	issuer		False		S		
	countryName	✓			S	LU	
	commonName	√			S	LuxTrust Global Timestamping CA x 18	





LuxTrust Timestamping Certificate Profile						
Attribute	Field	IN¹4	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	cKevInfo	✓	False			
,	algorithm	✓				Public Key: Key length: 2048 bit (RSA
	subjectPublicKey	✓		М		public exponent: Fermat-4 (=010001).
Extensions						provide provide a contract of the contract of
Authority						
Properties						
authorityKey	 dentifier	✓	False			
<u>aaanomy toy</u>	keyldentifier	✓	1 0.00			SHA-1 Hash of the LuxTru
	Royldonanoi					Timestamping CA public key
authorityInfo	Access	✓	False			Timestaniping or spanners,
add for ity in ito	AccessMethod	✓	1 0.00			Id-ad-2
	accessLocation	✓				http://ca.luxtrust.lu/LTGTSACAx ¹⁸ .crt
	AccessMethod	✓				Id-ad-1
	accessLocation	✓				http://ocsp.luxtrust.lu
cRLDistributi		✓	False			mtp://ocsp.iuxtrust.iu
CKLDISHIDUH	distributionPoint	✓	raise		S	
		✓			3	
0.11.4	fullName					http://crl.luxtrust.lu/LTGTSACAx 18.crl
Subject Properties						
subjectAltNa	ime	✓	False			
	Rfc822Name	√		0	D	info@luxtrust.lu
subjectKeyld	dentifier	✓	False			
	keyldentifier	√			Fixed	The Key Identifier comprises a four-
						field with a 0100 value, followed by t
						least significant 60 bits of the SHA-1 ha
						of the value or subjectPublicKey bit stri
						(tag, not including the length and numb
						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	CO ¹⁷	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>
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.

