Bugzilla ID: 685128

Bugzilla Summary: Add Buypass Root certificates

CAs wishing to have their certificates included in Mozilla products must

- 1) Comply with the requirements of the Mozilla CA certificate policy (http://www.mozilla.org/projects/security/certs/policy/)
- 2) Supply all of the information listed in http://wiki.mozilla.org/CA:Information checklist.
 - a. Review the Recommended Practices at https://wiki.mozilla.org/CA:Recommended Practices
 - b. Review the Potentially Problematic Practices at https://wiki.mozilla.org/CA:Problematic Practices

General information about the CA's associated organization

CA Company Name	Buypass AS	
Website URL	http://www.buypass.no	
Organizational type	Public corporation	
Primark Market /	Buypass AS is a public corporation and a leading supplier of secure solutions for electronic identification, electronic	
Customer Base	signatures and payment in the Nordic countries. Our solutions are delivered via the Internet, mobile phones, POS	
	terminals and company internal networks. Buypass has issued electronic IDs to over 2 million of Norway's 4.9 million	
	inhabitants. Buypass is registered with the Post and Telecommunications Authority as the issuer of the qualified ID	
	according to the law on electronic signature. The company is the market leading ID supplier within e-Government	
	services in Norway, provides identification services to all government departments, over 70% of the country's primary	
	health care services and the entire customer base of the Norsk Tipping (the Norwegian national Lottery). We have the last	
	few years made significant investment in SSL certificates for the European market. Buypass root certificates have been	
	included in most of the browsers (Mozilla, IE, Safari/IOS and Opera) and we currently support 99.5% of customers' and	
	partners' browsers. We are a member of the international CA/Browser Forum.	
CA Contact Information	n CA Email Alias: policy@buypass.no	
	CA Phone Number: 47 23 14 59 00	

Technical information about each root certificate

Certificate Name	Buypass Class 2 Root CA	Buypass Class 3 Root CA
Certificate	The Buypass Class 2 certificates are issued to natural persons	The Buypass Class 3 qualified certificates are issued to natural
Summary	not registered in the Norwegian National Registry of Persons and the merchant certificates are issued to organizations. The Buypass Class 2 certificates have the same basic usage areas as Class 3 certificates. The Class 2 CP has, however, less strict requirements with respect to identification of the requesting party than Class 3 certificates. "Domain" and" Domain+" -SSL certificates are issued exclusively by Class 2 CA. All certificates are issued to the general public.	persons and the enterprise certificates are issued to organizations. The certificates may be used for authentication purposes, encryption/decryption and/or electronic signatures (non-repudiation). The certificates are part of an infrastructure provided by Buypass AS enabling electronic commerce in Norway. The certificates are used by many different service providers ranging from purely commercial companies to governmental and other public institutions including the health sector. Extended Validation and Business SSL certificates are issued exclusively by the Buypass Class 3 CA. All certificates are issued to the general public.
Root Cert URL	http://www.buypass.no/cert/BPClass2RootCA-sha2.cer	http://www.buypass.no/cert/BPClass3RootCA-sha2.cer

SHA1	49:0A:75:74:DE:87:0A:47:FE:58:EE:F6:C7:6B:EB:C6:0B:12:40:99	DA:FA:F7:FA:66:84:EC:06:8F:14:50:BD:C7:C2:81:A5:BC:A9:64:57
Valid From	2010-10-26	2010-10-26
Valid To	2040-10-26	2040-10-26
Cert Version	3	3
Cert Sig Algo	PKCS #1 SHA-256 With RSA Encryption	PKCS #1 SHA-256 With RSA Encryption
Modulus	4096	4096
Test Website	https://valid.domainplus.ca22.ssl.buypass.no/CA2Class2	https://valid.evident.ca23.ssl.buypass.no/CA2Class3
CRL URL	http://crl.buypass.no/crl/BPClass2CA2.crl (NextUpdate: 25 hrs) Class 2 SSL CP Section 4.4.9: The CRL service SHALL at least issue CRLs every 24 hours and each CRL SHALL have a maximum expiration time of 48 hours.	http://crl.buypass.no/crl/BPClass3CA2.crl (NextUpdate: 25 hrs) Class 3 SSL CP Section 4.4.9: The CRL service SHALL at least issue CRLs every 24 hours and each CRL SHALL have a maximum expiration time of 48 hours.
OCSP URL	http://ocsp.buypass.no/ocsp/BPClass2CA2	http://ocsp.buypass.no/ocsp/BPClass3CA2 Class 3 SSL CP Section 4.4.11: The OCSP service SHALL be updated at least every 24 hours, and OCSP responses from this service SHALL have a maximum expiration time of 48 hours.
Requested Trust Bits	Websites (SSL/TLS)	Websites (SSL/TLS)
SSL Validation Type	OV	OV, EV
EV Policy OID(s)	Not EV	2.16.578.1.26.1.3.3

CA Hierarchy

CA Hierarchy	https://bugzilla.mozilla.org/attachment.cgi?id=558776	https://bugzilla.mozilla.org/attachment.cgi?id=558776
	Buypass Class 2 Root CA has two internally-operated subCAs.	Buypass Class 3 Root CA has two internally-operated subCAs.
Externally Operated	None	None
SubCAs		
Cross-Signing	None	None

Verification Policies and Practices

Policy	Documents are provided in English.	
Documentation	Document Repository: http://www.buypass.no/bedrift/kundeservice/dokumentasjon/ca-dokumenter-juridisk	
	Class 2 CP: http://www.buypass.no/bedrift/kundeservice/dokumentasjon/ca-dokumenter-juridisk/attachment/8957	
	Class 2 CPS: http://www.buypass.no/bedrift/kundeservice/dokumentasjon/ca-dokumenter-juridisk/attachment/8961	
	Class 3 CP: http://www.buypass.no/bedrift/kundeservice/dokumentasjon/ca-dokumenter-juridisk/_attachment/8960	
	Class 3 CPS: http://www.buypass.no/bedrift/kundeservice/dokumentasjon/ca-dokumenter-juridisk/_attachment/8963	
Audits	Auditor: KPMG (KPMG Advisory N.V.)	
	Auditor Website: www.kpmg.com	
	Audit Document URL(s): https://cert.webtrust.org/ViewSeal?id=1269 (2011.11.30)	
	Point-in-time WebTrust for CA and EV SSL audit report and management assertions for the new CA (CA2):	
	http://www.buypass.no/Bedrift/Produkter-og-tjenester/SSL-sertifikat/_attachment/10607 (2010.11.30)	
Class 2 SSL Cert	Class 2 SSL Certificate Policy	

Organization
And
Domain Name
Verification
Procedures

Section 2.1.1:

The CA SHALL warrant that the identity of the Subscriber that appears in an issued Buypass Domain Plus SSL Certificate is accurate and correct at the time of issuance.

The CA SHALL warrant that an issued Buypass Domain Plus SSL Certificate is linked to one (1) unique organization registered in the Norwegian Central Coordinating Register for Legal Entities.

The CA SHALL warrant that the Subscriber is in possession of the Subject Private Key that corresponds to the Public Key in that Certificate.

The CA SHALL warrant that Subscriber named in the Class 2 SSL Certificate has the right to use the domain name(s) listed in the Certificate.

Section 2.1.2:

An RA operating under the Certificate Policy for Buypass Class 2 SSL Certificates [14] SHALL:

2 receive Certificate Applications from Subscribers, both initial applications (see 4.1.1) and rekey applications (see 4.1.2)

② verify all information submitted by Subscribers, both for initial applications and for rekey applications and if such verification is successful, submit a request to the CA for the issuance of a Buypass Class 2 SSL Certificate

Section 3.1.1:

a) The following Subscriber information SHALL be obtained by the RA during initial registration:

2 name of the Subscriber. For Buypass Domain Plus SSL Certificates: full name of the Subscriber as defined in the Norwegian Central Coordinating Register for Legal Entities

① the Subscribers' Organization Number as defined in the Norwegian Central Coordinating Register for Legal Entities for Buypass SSL Domain Plus Certificates

the address and telephone number of Subscriber's Place of Business

2 contact information of Subscriber representatives acting as Certificate Approver

2 name and Contact information of Subscriber representative acting as Certificate Applicant

b) All information provided SHALL be verified according to section 4.1.1.

Section 3.1.2:

The RA SHALL be able to identify Certificate Applicants and Certificate Approvers as Authorized Subscriber Representatives;

- a) Authorized Certificate Approvers are:
- $\ensuremath{\mathbb{Z}}$ Subscriber representative authorised to sign contracts on behalf of the Subscriber
- © Certificate Approvers already authorized by the Subscriber under the Certificate Policy for Buypass Class 3 SSL Certificates [16]
- ② administration or technical contact for the given domain name(s) whenever organization information is not included in the Certificate
- b) Accepted ways of confirming a Certificate Approver's SSL Authority are:
- ② an internal verification by Buypass that the person already possesses a Certificate Approver role for the Subscriber under the Certificate Policy for Buypass Class 3 SSL Certificates [16]
- $\ \square$ an independent confirmation obtained from the Norwegian Central Coordinating Register for Legal Entities that the Certificate Approver is entitled to bind the Subscriber organization by signature
- ② an independent confirmation from the Subscriber that the Certificate Approver is a Subscriber representative authorised to sign contracts on behalf of the Subscriber
- \square administration or technical contact for the given domain name(s) in an official domain name registry whenever organization information is not included in the Certificate
- c) A Certificate Application SHALL be expressly approved by a Certificate Approver.
- d) An authorized Certificate Approver is by definition also an authorized Certificate Applicant.

	Section 4.1.1:
	d) In the event that external RAs are used, the CA SHALL verify that application data is exchanged with recognized RAs, whose identity is authenticated.
	e) The controls and procedures used to verify the Certificate Application SHALL establish:
	1 that the Certificate Application is accurate and complete
	② that the Subscriber is registered in the Norwegian Central Coordinating Register for Legal Entities and that Subscriber information registered conform with information provided in the Certificate Application (see section 3.1.1) for Buypass Domain Plus SSL Certificates
	🛮 that the Certificate Applicant and Certificate Approver are Authorized Subscriber Representatives according to the requirements
	described in section 3.1.2
	🛮 that the Subscriber is a registered holder or has control of the domain name to be included in the SSL Certificate
Class 3 SSL Cert	Class 3 SSL Certificate Policy
Organization	Section 2.1.1:
And	The CA SHALL warrant that the identity of the Subscriber that appears in an issued SSL Certificate is accurate and correct at the time
Domain Name	of issuance.
Verification	The CA SHALL warrant that an issued SSL Certificate is linked to one (1) unique organization registered in the Norwegian Central
Procedures	Coordinating Register for Legal Entities.
	The CA SHALL warrant that the Subscriber that is named in a Certificate is in possession of the Subject Private Key that corresponds to the Public Key in that Certificate.
	The CA SHALL warrant that Subscriber named in the SSL Certificate has the exclusive right to use the domain name(s) listed in the
	SSL Certificate.
	Section 2.1.2:
	An RA operating under the Certificate Policy for Buypass Class 3 SSL Certificates [15] SHALL:
	receive Certificate Applications from Subscribers, both initial applications (see 4.1.1) and rekey applications (see 4.1.2)
	verify all information submitted by Subscribers, both for initial applications and for rekey applications and if such verification is
	successful, submit a request to the CA for the issuance of a Buypass Class 3 SSL Certificate
	Section 3.1.1:
	a) The following Subscriber information SHALL be obtained by the RA during initial registration:
	② full name and legal status of the Subscriber as defined in the Norwegian Central Coordinating
	Register for Legal Entities
	the Subscribers' Organization Number as defined in the Norwegian Central Coordinating Register for Legal Entities
	🛮 the address of Subscriber's Place of Business as defined in the Norwegian Central Coordinating Register for Legal Entities and the
	main telephone number
	🛮 name and contact information of all Subscriber Representatives authorized to operate as either Certificate Applicant, Certificate
	Approver, Certificate Manager or Contract Signer
	b) All information provided SHALL be verified according to section 4.1.1.
	Section 3.1.2:
	The RA SHALL be able to identify Certificate Applicants, Certificate Approvers, Certificate Managers and Contract Signers as Authorized Subscriber Representatives;
	{Acceptable documents are listed, and the CAB Forum EV Guidelines are referenced.}
	Section 4.1.1:
	The Certificate Applicant, Certificate Approver, Certificate Manager and Contract Signer SHALL register with an RA as Authorized
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	Subscriber Representatives either prior to, or at the time of, applying for a Certificate. Section 3.1 defines necessary requirements
	for identification, authentication and authorization. a) The Certificate Applicant, Certificate Approver and Contract Signer SHALL register with an RA as Authorized Subscriber
	Representatives either prior to, or at the time of, applying for a Certificate. Section 3.1 defines necessary requirements for
	identification, authentication and authorization.
	b) The Subscriber SHALL provide to the RA:
	2 all Subscriber information as defined in section 3.1
	② a Certificate Application signed by a Certificate Applicant
	 a legally enforceable Subscriber Agreement signed by a Contract Signer that specifies the rights and responsibilities of the parties
	c) For EV Certificates, the contents of the Subscriber Agreement SHALL comply with the requirements of the CA/Browser Forum
	Guidelines [10].
	d) The confidentiality and integrity of application data SHALL be protected, especially when exchanged between the Subscriber and RA or between distributed RA/CA system components. The Certificate Applicant, Certificate Manager and/or Certificate Approver
	SHALL be able to establish the identity of the RA.
	e) In the event that external RAs are used, the CA SHALL verify that application data is exchanged with recognized RAs, whose identity is authenticated.
	f) The controls and procedures used to verify the Certificate Application SHALL conform to the information verification
	requirements defined by the CA/Browser Forum Guidelines [10] and SHALL establish:
	12 that the Certificate Application is accurate and complete
	2 that the Subscriber is registered in the Norwegian Central Coordinating Register for Legal Entities and that Subscriber information registered conform with information provided in the Certificate Application (see section 3.1.1)
	that the Certificate Applicant, Certificate Approver, Certificate Manager and Contract Signer are Authorized Subscriber
	Representatives according to the requirements described in section 3.1.2
	1 that the Contract Signer has signed the Subscriber Agreement
	12 that the Certificate Applicant has signed the Certificate Application (for EV Certificates only)
	1 that the Subscriber is a registered holder or has exclusive control of the domain names to be included in the SSL Certificate
	g) The Certificate Application SHALL be rejected if any of the verification steps in f) fails. In this case the Certificate Applicant SHALL be notified without undue delay that the Certificate Application has been rejected.
	h) Auditable controls SHALL be in place to ensure separation of duties such that no person single- handedly can both validate and
	authorize the issuance of an SSL Certificate.
Email Address	N/A – Not requesting the email trust bit.
Verification	1.7.1 TOUT ON THE CONTROL OF CONT
Procedures	
Code Signing	N/A – Not requesting the Code Signing trust bit.
Subscriber	
Verification	
Multi-factor	Comment #3: All RA and CA trusted personnel use their personal two factor authentication token (i.e. a smartcard) to access their
Authentication	accounts. chpt. 5.1 in the CPS.
Network	In both CPS documents sections 6.5, 6.6, and 6.7 describe computer security controls, lifecycle technical controls, and network
Security	security controls.
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Response to Mozilla's CA Recommended Practices (https://wiki.mozilla.org/CA:Recommended Practices)

Publicly Available CP and CPS	Yes
CA Hierarchy	These root certificates sign internally-operated subordinate CAs. They do not directly sign
	end-entity subscriber certificates.
Audit Criteria	Yes
Document Handling of IDNs in CP/CPS	N/A
Revocation of Compromised Certificates	Yes
Verifying Domain Name Ownership	Yes
Verifying Email Address Control	N/A
Verifying Identity of Code Signing Certificate	N/A
Subscriber	
<u>DNS names go in SAN</u>	Yes, all DNS names go in SAN.
Domain owned by a Natural Person	Yes
<u>OCSP</u>	Yes

Response to Mozilla's list of Potentially Problematic Practices (https://wiki.mozilla.org/CA:Problematic Practices)

Response to Fibrania 5 list of Fotentially Froblematic Fractices (https://wikinfobilia.org/ork/Froblematic Fractices)		
Long-lived DV certificates	Class 2 SSL CP Section 4.2: The validity period for a Class 2 SSL Certificate SHALL NOT	
	exceed three years.	
	Class 3 SSL CP Section 4.2: The validity period for an EV Certificate SHALL NOT exceed	
	twenty seven months.	
Wildcard DV SSL certificates	No wildcard DV SSL certs are allowed. Wildcard SSL certs are only allowed for OV.	
Email Address Prefixes for DV Certs	Comment #3: No email address prefixes are used. Only the email address listed in the	
	administrative contact field of the domain's WHOIS record	
Delegation of Domain / Email validation to third	Domain verification is not delegated to third parties.	
parties		
<u>Issuing end entity certificates directly from roots</u>	No	
Allowing external entities to operate subordinate CAs	No	
Distributing generated private keys in PKCS#12 files	No	
Certificates referencing hostnames or private IP	Comment #3: Yes, hostnames may only be referenced in an OV certificate (SSL Domain	
<u>addresses</u>	Plus).	
<u>Issuing SSL Certificates for Internal Domains</u>	No	
OCSP Responses signed by a certificate under a	No	
different root		
CRL with critical CIDP Extension	No	
Generic names for CAs	No	