

COMODO
Creating Trust Online®



Comodo Certificate Manager

Version 5.7

Device Certificate Enroll API

Guide Version 5.7.032817

Comodo CA Limited
3rd Floor, 26 Office Village, Exchange Quay,
Trafford Road, Salford,
Greater Manchester M5 3EQ,
United Kingdom

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1. Introduction

Name : EPKIManagerDevice

Service EPR : <http://cert-manager.com/ws/EPKIManagerDevice> OR <http://hard.cert-manager.com/ws/EPKIManagerDevice>

View WSDL : <http://cert-manager.com/ws/EPKIManagerDevice?wsdl> OR <http://hard.cert-manager.com/ws/EPKIManagerDevice?wsdl> *

Service Description : The Service allows the Administrator to request, collect and revoke Device certificates.

* Please use the sub-domain appropriate to your use case.

2. Remote Functions

2.1. Function for Device Certificate Revocation

Integer revoke (AuthData authData, Integer orderNumber, String reason)

2.1.1. Arguments

Variable Name	Type	Max. Length	Description
authData	AuthData	128	Authentication data. See description in the section 2.1.2.AuthData type
orderNumber	Integer		This is the order number previously returned by function enroll.
reason	String	256	Revocation reason for audit logging. Empty String is also allowed.

2.1.2. Return value - Status code

Status code	Type	Possible value(s)
Status Code	Integer	0 = SUCCESSFUL; -1 = The 'Order number' argument is invalid; -2 = Order number not found; -3 = The 'Serial number' argument is invalid; -4 = Serial number not found; -14 = An unknown error occurred; -16 = Permission denied; -20 = The certificate request has been rejected; -21 = The certificate has been revoked;

		<p>-22 = Still awaiting payment;</p> <p>-24 = Auth data argument is invalid;</p> <p>-25 = DCV not performed;</p> <p>-26 = Organization has incorrect OV status;</p> <p>-31 = The email is not a valid email;</p> <p>-100 = Invalid auth data;</p> <p>-101 = Invalid organization auth data;</p> <p>-105 = Person not found;</p> <p>-106 = EULA is not accepted;</p> <p>-110 = Domain is not allowed for customer;</p> <p>-111 = Domain is not allowed for organization;</p> <p>-112 = KU/EKU template is not allowed for customer;</p> <p>-113 = KU/EKU template is not allowed any more;</p> <p>-114 = Client Cert Type is not available for organization;</p> <p>-115 = Domain is not DCV validated (while 'Enforce DCV for S/MIME' is ON);</p> <p>-120 = Customer configuration is not allowed the desired action</p>
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2.2. Function for Device Certificate Revocation by Serial Number

Integer revokeBySerialNumber (AuthData authData, String serialNumber, String reason)

2.2.1. Arguments

Variable Name	Type	Max. Length (chars)	Description
authData	AuthData		Authentication data. See description in the section 2.1.2.AuthData type
serialNumber	String	64	Certificate serial number.
reason	String	256	Revocation reason for audit logging. Empty String allowed.

2.2.2. Return Value – Status Code

Status code	Possible Value(s)
If 'status code' < 0	<p>0 = SUCCESSFUL;</p> <p>-1 = The 'Order number' argument is invalid;</p>

	<p>-2 = Order number not found;</p> <p>-3 = The 'Serial number' argument is invalid;</p> <p>-4 = Serial number not found;</p> <p>-14 = An unknown error occurred;</p> <p>-16 = Permission denied;</p> <p>-20 = The certificate request has been rejected;</p> <p>-21 = The certificate has been revoked;</p> <p>-22 = Still awaiting payment;</p> <p>-24 = Auth data argument is invalid;</p> <p>-25 = DCV not performed;</p> <p>-26 = Organization has incorrect OV status;</p> <p>-31 = The email is not a valid email;</p> <p>-100 = Invalid auth data;</p> <p>-101 = Invalid organization auth data;</p> <p>-105 = Person not found;</p> <p>-106 = EULA is not accepted;</p> <p>-110 = Domain is not allowed for customer;</p> <p>-111 = Domain is not allowed for organization;</p> <p>-112 = KU/EKU template is not allowed for customer;</p> <p>-113 = KU/EKU template is not allowed any more;</p> <p>-114 = Client Cert Type is not available for organization;</p> <p>-115 = Domain is not DCV validated (while 'Enforce DCV for S/MIME' is ON);</p> <p>-120 = Customer configuration is not allowed the desired action</p>
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2.3. Function for Collecting Enrolled Device Certificate

`DeviceCertCollectResponse collect(AuthData authData, Integer orderNumber, Integer format)`

Variable Name	Type	Description
authData	AuthData	Authentication data. See description in the section 2.1.2.AuthData type
orderNumber	Integer	Certificate order number.
format	Integer	Allowed formats for downloading of Device Certificate. Allowed Values: 0 = X509 PEM Bundle; 1 = X509 PEM Certificate only; 2 = X509 PEM Intermediate certificate only; 3 = PKCS#7 PEM Bundle; 4 = PKCS#7 DER Bundle.

2.3.1. Return Value – DeviceCertCollectResponse

Method Name	Description
int statusCode	1 = Certificates attached 0 = Being processed by Comodo -1 = The 'Order number' argument is invalid. -2 = Order number not found. -14 = An unknown error occurred! -16 = Permission denied! -20 = CSR rejected -21 = The certificate has been revoked! -22 = Still awaiting payment! -100 = Invalid auth data! -101 = Invalid Organization auth data! -120 = Customer configuration is not allowed the desired action
String certificate	If status code = 1, then - certificate in Base-64 if succeed, null otherwise.

2.4. Function for Device Certificate Enrollment

Integer enroll (AuthData authData, String commonName, Integer orgId, Integer term, String csr, Integer certType, DeviceCertEnrollOptionalFieldsDto optionalFields)

2.4.1. Arguments

Variable Name	Type	Max. Length (chars)	Allowed Values	Description
authData	AuthData			Authentication data. See description in the section 2.1.2.AuthData type
commonName	String	64		Name to enroll certificate for. This value will be set for the subject 'CN'.
orgId	Integer	128		Organization identifier. Can be obtained from Admin UI > Organization properties > 'Client Cert' tab.
term	Integer			Term of the Device certificate in years.
csr	String	32767	Subject: The fields may be in any order (although multiple street addresses, if present, should be in the correct order).	Certificate Signing Request (Base-64 encoded with or without the -----BEGIN xxxxx-----)

			<p>Algorithm OID = rsaEncryption (PKCS#1). Size = 512 to 8192 bits. Attributes: Any attributes MAY be present, but will be ignored if the subject_ fields are used. Signature Algorithm: md5WithRSAEncryption (PKCS#1)</p>	<p>and -----END xxxxx----- header and footer)</p>
certTypeId	Integer			Identifier for Device certificate type. When not specified, default type is used.
optionalFields	DeviceCertEnrollOptionalFieldsDto			Optional fields for the Device certificate

2.4.1.1. Return Value – Status Code

Status code	Possible Value(s)
If 'status code' < 0	<p>0 = SUCCESSFUL; -3 = The 'User name' argument is invalid; -7 = Country is not a valid ISO-3166 country; -9 = The CSR is not valid Base-64 data; -10 = The CSR cannot be decoded; -11 = The CSR uses an unsupported algorithm; -12 = The CSR has an invalid signature; -13 = The CSR uses an unsupported key size; -14 = An unknown error occurred; -16 = Permission denied; -24 = Auth data argument is invalid; -25 = DCV not performed; -26 = Organization has incorrect OV status; -31 = The email is not a valid email; -32 = The passphrase is empty; -33 = The certificate type is invalid; -34 = The secret key is invalid; -35 = The Server type is invalid; -36 = The term is invalid for certificate type; -37 = The cert type name is invalid; -38 = Unable to enroll EV certificate with empty required fields; -100 = Invalid auth data;</p>

	<ul style="list-style-type: none"> -101 = The 'Access code' argument is invalid; -106 = EULA is not accepted; -110 = Domain is not allowed for customer; -111 = Domain is not allowed for organization; -112 = KU/EKU template is not allowed for customer; -113 = KU/EKU template is not allowed any more; -114 = Client Cert Type is not available for organization; -115 = Domain is not DCV validated (while 'Enforce DCV for S/MIME' is ON); -116 = Can't change person properties; -120 = Customer configuration is not allowed the desired action.
If 'status code' > 0	SSL identifier. It will be used for certificate collecting/revoking.

2.5. Function for Retrieving All Ids of KU/EKU for Device Cert Enroll Process

`DeviceCertTypeldsResponse getDeviceCertTypelds (AuthData authData)`

2.5.1. Arguments

Variable Name	Type	Description
authData	AuthData	Authentication data. See description in the section 2.1.2.AuthData type

2.5.2. Return value - DeviceCertTypeldsResponse

Status code	Possible Value(s)
If 'status code' < 0	<ul style="list-style-type: none"> 0 = SUCCESSFUL; -3 = The 'User name' argument is invalid; -7 = Country is not a valid ISO-3166 country; -9 = The CSR is not valid Base-64 data; -10 = The CSR cannot be decoded; -11 = The CSR uses an unsupported algorithm; -12 = The CSR has an invalid signature; -13 = The CSR uses an unsupported key size; -14 = An unknown error occurred; -16 = Permission denied;

	<p>-24 = Auth data argument is invalid; -25 = DCV not performed; -26 = Organization has incorrect OV status; -31 = The email is not a valid email; -32 = The passphrase is empty; -33 = The certificate type is invalid; -34 = The secret key is invalid; -35 = The Server type is invalid; -36 = The term is invalid for certificate type; -37 = The cert type name is invalid; -38 = Unable to enroll EV certificate with empty required fields; -100 = Invalid auth data; -101 = The 'Access code' argument is invalid; -106 = EULA is not accepted; -110 = Domain is not allowed for customer; -111 = Domain is not allowed for organization; -112 = KU/EKU template is not allowed for customer; -113 = KU/EKU template is not allowed any more; -114 = Client Cert Type is not available for organization; -115 = Domain is not DCV validated (while 'Enforce DCV for S/MIME' is ON); -116 = Can't change person properties; -120 = Customer configuration is not allowed the desired action.</p>
If 'status code' > 0	List of all retrieving Ids will be used for certificate enroll.

2.6. Function for Retrieving Certificate Type Information by its ID

DeviceCertTypeResponse getDeviceCertType (AuthData authData, Integer certTypeId)

Variable Name	Type	Description
authData	AuthData	Authentication data. See description in the section 2.1.2.AuthData type
certTypeId	Integer	Identifier for Device certificate type. When not specified, default type is used.

2.6.1. Return value - DeviceCertTypeResponse

Status code	Possible Value(s)
If ' status code' < 0	<p>0 = SUCCESSFUL; -3 = The 'User name' argument is invalid; -7 = Country is not a valid ISO-3166 country;</p>

	<p>-9 = The CSR is not valid Base-64 data;</p> <p>-10 = The CSR cannot be decoded;</p> <p>-11 = The CSR uses an unsupported algorithm;</p> <p>-12 = The CSR has an invalid signature;</p> <p>-13 = The CSR uses an unsupported key size;</p> <p>-14 = An unknown error occurred;</p> <p>-16 = Permission denied;</p> <p>-24 = Auth data argument is invalid;</p> <p>-25 = DCV not performed;</p> <p>-26 = Organization has incorrect OV status;</p> <p>-31 = The email is not a valid email;</p> <p>-32 = The passphrase is empty;</p> <p>-33 = The certificate type is invalid;</p> <p>-34 = The secret key is invalid;</p> <p>-35 = The Server type is invalid;</p> <p>-36 = The term is invalid for certificate type;</p> <p>-37 = The cert type name is invalid;</p> <p>-38 = Unable to enroll EV certificate with empty required fields;</p> <p>-100 = Invalid auth data;</p> <p>-101 = The 'Access code' argument is invalid;</p> <p>-106 = EULA is not accepted;</p> <p>-110 = Domain is not allowed for customer;</p> <p>-111 = Domain is not allowed for organization;</p> <p>-112 = KU/EKU template is not allowed for customer;</p> <p>-113 = KU/EKU template is not allowed any more;</p> <p>-114 = Client Cert Type is not available for organization;</p> <p>-115 = Domain is not DCV validated (while 'Enforce DCV for S/MIME' is ON);</p> <p>-116 = Can't change person properties;</p> <p>-120 = Customer configuration is not allowed the desired action.</p>
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2.7. Function for Retrieving Custom Fields for Customer

getDeviceCustomFields (String customerLoginUri, String uriExtension)

Variable Name	Type	Description
customerLoginUri	String	Customer login URI.
uriExtension	String	URI extension.

2.7.1. Return value - DeviceCertCustomFieldResponse

Status code	Possible Value(s)
If 'status code' < 0	0 = SUCCESSFUL; -3 = The 'User name' argument is invalid; -7 = Country is not a valid ISO-3166 country; -9 = The CSR is not valid Base-64 data; -10 = The CSR cannot be decoded; -11 = The CSR uses an unsupported algorithm; -12 = The CSR has an invalid signature; -13 = The CSR uses an unsupported key size; -14 = An unknown error occurred; -16 = Permission denied; -24 = Auth data argument is invalid; -25 = DCV not performed; -26 = Organization has incorrect OV status; -31 = The email is not a valid email; -32 = The passphrase is empty; -33 = The certificate type is invalid; -34 = The secret key is invalid; -35 = The Server type is invalid; -36 = The term is invalid for certificate type; -37 = The cert type name is invalid; -38 = Unable to enroll EV certificate with empty required fields; -100 = Invalid auth data; -101 = The 'Access code' argument is invalid; -106 = EULA is not accepted; -110 = Domain is not allowed for customer; -111 = Domain is not allowed for organization; -112 = KU/EKU template is not allowed for customer; -113 = KU/EKU template is not allowed any more; -114 = Client Cert Type is not available for organization; -115 = Domain is not DCV validated (while 'Enforce DCV for S/MIME' is ON); -116 = Can't change person properties; -120 = Customer configuration is not allowed the desired action.
If 'status code' > 0	List of custom fields will be used for certificate enroll.

2.8. Utility Function for Getting Short Information about Web Service (name, version, etc.)

`String getWebServiceInfo()`

About Comodo

The Comodo organization is a global innovator of cybersecurity solutions, protecting critical information across the digital landscape. Building on its unique position as the world's largest certificate authority, Comodo authenticates, validates and secures networks and infrastructures from individuals to mid-sized companies to the world's largest enterprises. Comodo provides complete end-to-end security solutions across the boundary, internal network and endpoint with innovative technologies solving the most advanced malware threats, both known and unknown. With global headquarters in Clifton, New Jersey, and branch offices in Silicon Valley, Comodo has international offices in China, India, the Philippines, Romania, Turkey, Ukraine and the United Kingdom. For more information, visit comodo.com.

Comodo CA Limited

3rd Floor, 26 Office Village, Exchange Quay, Trafford
Road, Salford, Greater Manchester M5 3EQ,

United Kingdom.

Tel : +44 (0) 161 874 7070

Fax : +44 (0) 161 877 1767

Email: EnterpriseSolutions@Comodo.com

Comodo Security Solutions, Inc.

1255 Broad Street

Clifton,

NJ 07013

United States

Tel: +1.877.712.1309

Tel: +1.888.256.2608

For additional information on Comodo - visit <http://www.comodo.com>.