



# Comodo Certificate Manager

Version 5.6

## Device Certificate Enroll API

Guide Version 5.6.011317

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#### **Table of Contents**

1.Introduction	3
2.Remote Functions	3
2.1.Function for Device Certificate Revocation	3
2.1.1.Arguments	
2.1.2.Return value - Status code	
2.2.Function for Device Certificate Revocation by Serial Number	
2.2.1.Arguments	
2.2.2.Return Value – Status Code	
2.3.Function for Collecting Enrolled Device Certificate	5
2.3.1.Return Value – DeviceCertCollectResponse	6
2.4.Function for Device Certificate Enrollment	6
2.4.1.Arguments	6
2.4.1.1.Return Value – Status Code	7
2.5.Function for Retrieving All Ids of KU/EKU for Device Cert Enroll Process	8
2.5.1.Arguments	8
2.5.2.Return value - DeviceCertTypeIdsResponse	8
2.6.Function for Retrieving Certificate Type Information by its ID	9
2.6.1.Return value - DeviceCertTypeResponse	9
2.7.Function for Retrieving Custom Fields for Customer	10
2.7.1.Return value - DeviceCertCustomFieldResponse	11
2.8. Utility Function for Getting Short Information about Web Service (name, version, etc.)	12
About Comodo	13



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

Description

## 2. Remote Functions

#### 2.1. Function for Device Certificate Revocation

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

#### 2.1.1. Arguments

Variable Name	Туре	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	Туре	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		-21 = The certificate has been revoked;

<sup>\*</sup> Please use the sub-domain appropriate to your use case.



-22 = Still awaiting payment;
-24 = Auth data argument is invalid;
-25 = DCV not performed;
-26 = Organization has incorrect OV status;
-31 = The email is not a valid email;
-100 = Invalid auth data;
-101 = Invalid organization auth data;
-105 = Person not found;
-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);
-120 = Customer configuration is not allowed the desired action

# 2.2. Function for Device Certificate Revocation by Serial Number

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

## 2.2.1. Arguments

Variable Name	Туре	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	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;
-22 = Still awaiting payment;
-24 = Auth data argument is invalid;
-25 = DCV not performed;
-26 = Organization has incorrect OV status;
-31 = The email is not a valid email;
-100 = Invalid auth data;
-101 = Invalid organization auth data;
-105 = Person not found;
-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);
-120 = Customer configuration is not allowed the desired action

## 2.3. Function for Collecting Enrolled Device Certificate

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

Variable Name	Туре	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 orgld, Integer term, String csr, Integer certTypeld, DeviceCertEnrollOptionalFieldsDto optionalFields)

#### 2.4.1. Arguments

Variable Name	Туре	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'.
orgld	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 theBEGIN xxxxx



		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)	andEND xxxxx header and footer)
certTypeId	Integer		Identifier for Device certificate type. When not specified, default type is used.
optionalFields	DeviceCertEnr ollOptionalFiel dsDto		Optional fields for the Device certificate

#### 2.4.1.1. Return Value - Status Code

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	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	Туре	Description
authData		Authentication data. See description in the section 2.1.2.AuthData type

#### 2.5.2. Return value - DeviceCertTypeIdsResponse

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;



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	-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 all retrieving lds 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	Туре	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	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.

## 2.7. Function for Retrieving Custom Fields for Customer

getDeviceCustomFields (String customerLoginUri, String uriExtension)

Variable Name	Туре	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 and developer of cyber security solutions, founded on the belief that every single digital transaction deserves and requires a unique layer of trust and security. Building on its deep history in SSL certificates, antivirus and endpoint security leadership, and true containment technology, individuals and enterprises rely on Comodo's proven solutions to authenticate, validate and secure their most critical information.

With data protection covering endpoint, network and mobile security, plus identity and access management, Comodo's proprietary technologies help solve the malware and cyber-attack challenges of today. Securing online transactions for thousands of businesses, and with more than 85 million desktop security software installations, Comodo is Creating Trust Online®. With United States headquarters in Clifton, New Jersey, the Comodo organization has offices in China, India, the Philippines, Romania, Turkey, Ukraine and the United Kingdom.

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