SSLCERT API Reference

API Reference for managing SSL Certificates

Version 1.1
June 5, 2012

This publication was created using OpenOffice.org by Sun Microsystems Inc.

SSLCERT API Rererence
Version 1.1

TABLE OF CONTENTS

1. Introduction

This manual describes the API commands for the ordering of SSL Certificates through the system.

SSL (Secure Socket Layer) is the standard protocol for transaction security used worldwide. SSL-Connection basically submits all information between your servers and the customers browser in an encrypted form, meaning that all information is kept absolutely confidential.

Our API is connected to Thawte, Symantec, GeoTrust and Comodo, four of the major SSL certificate suppliers worldwide.

The following products are offered through our API:

• Comodo InstantSSL
• Comodo InstantSSL Pro
• Comodo EV SSL Certificate
• Comodo Premium SSL Certificate
• Comodo Premium SSL Wildcard Certificate
• Comodo Essential SSL Certificate
• Comodo Unified Communications Certificates

• Thawte SSL123
• Thawte SSL Webserver Certificate
• Thawte SSL Webserver EV Certificate
• Thawte SSL Webserver Wildcard Certificate

• Symantec Securesite SSL123 Certificate
• Symantec Securesite Pro Certificate
• Symantec Securesite EV Certificate
• Symantec Securesite EV Pro Certificate

• GeoTrust Quick SSL Premium
• GeoTrust Rapid SSL
• GeoTrust Rapid SSL Wildcard

The API itself is not object orientated, but object related and can be encapsulated into any OO language without much trouble.

If there are any errors or missing topics, please don't hesitate to contact us.

2. SSLCERT User Relations

The relations define the operational parameters of a user and can only be modified by its superordinate users. The most important use of relations is to define the prices.

The system currently supports the following relation types for SSLCERTs:

Relation type	Description
SSLCERT_COMODO_INSTANTSSL_ANNUAL	Annual fee for a Comodo InstantSSL Certificate
SSLCERT_COMODO_INSTANTSSL_SETUP	Additional setup fee for the Comodo InstantSSL Certificate
SSLCERT_COMODO_INSTANTSSL_PRO_ANNUAL	Annual fee for a Comodo InstantSSL Pro Certificate
SSLCERT_COMODO_INSTANTSSL_PRO_SETUP	Additional setup fee for the Comodo InstantSSL Pro Certificate
SSLCERT_COMODO_EVSSL_ANNUAL	Annual fee for a Comodo EV SSL Certificate
SSLCERT_COMODO_EVSSL_SETUP	Additional setup fee for the Comodo EV SSL Certificate
SSLCERT_COMODO_PREMIUMSSL_ANNUAL	Annual fee for a Comodo Premium SSL Certificate
SSLCERT_COMODO_PREMIUMSSL_SETUP	Additional setup fee for the Comodo Premium SSL Certificate
SSLCERT_COMODO_ESSENTIALSSL_ANNUAL	Annual fee for a Comodo Essential SSL Certificate
SSLCERT_COMODO_ESSENTIALSSL_SETUP	Additional setup fee for the Comodo Essential SSL Certificate
SSLCERT_COMODO_UCC_ANNUAL	Annual fee for a Comodo Unified Communications Certificate
SSLCERT_COMODO_UCC_SETUP	Additional setup fee for Comodo Unified Communications Certificate
SSLCERT_COMODO_WILDCARDSSL_ANNUAL	Annual fee for a Comodo Wildcard SSL Certificate
SSLCERT_COMODO_WILDCARDSSL_SETUP	Additional setup fee for Comodo Wildcard SSL Certificate
SSLCERT_THAWTE_SSL123_ANNUAL1	Annual fee for a Thawte SSL123 Certificate
SSLCERT_THAWTE_SSL123_SETUP	Additional setup fee for the Thawte SSL123 Certificate
SSLCERT_THAWTE_SSLWEBSERVER_ANNUAL1	Annual fee for a Thawte SSL Webserver Certificate
SSLCERT_THAWTE_SSLWEBSERVER_SETUP	Additional setup fee for the Thawte SSL Webserver Certificate
SSLCERT_THAWTE_SSLWEBSERVEREV_ANNUAL1	Annual fee for a Thawte SSL Webserver EV Certificate
SSLCERT_THAWTE_SSLWEBSERVEREV_SETUP	Additional setup fee for the Thawte SSL Webserver EV Certificate
SSLCERT_SYMANTEC_SECURESITE_ANNUAL	Annual fee for a Symantec Securesite Certificate
SSLCERT_SYMANTEC_SECURESITE_SETUP	Additional setup fee for a Symantec Securesite Certificate
SSLCERT_SYMANTEC_SECURESITEPRO_ANNUAL	Annual fee for a Symantec Securesite Pro Certificate
SSLCERT_SYMANTEC_SECURESITEPRO_SETUP	Additional setup fee for a Symantec Securesite Pro Certificate
SSLCERT_SYMANTEC_SECURESITEEV_ANNUAL	Annual fee for a Symantec Securesite EV Certificate
SSLCERT_SYMANTEC_SECURESITEEV_SETUP	Additional setup fee for a Symantec Securesite EV Certificate
SSLCERT_SYMANTEC_SECURESITEPROEV_ANNUAL	Annual fee for a Symantec Securesite Pro EVCertificate
SSLCERT_SYMANTEC_SECURESITEPROEV_SETUP	Additional setup fee for a Symantec Securesite Pro EV Certificate
SSLCERT_GEOTRUST_QUICKSSLPREMIUM_ANNUAL1	Annual fee for a GeoTrust Quick SSL Premium Certificate
SSLCERT_GEOTRUST_QUICKSSLPREMIUM_SETUP	Additional setup fee for a GeoTrust Quick SSL Premium Certificate
SSLCERT_GEOTRUST_RAPIDSSL_ANNUAL1	Annual fee for a GeoTrust RapidSSL Certificate
SSLCERT_GEOTRUST_RAPIDSSL_SETUP	Additional setup fee for a RapidSSL Certificate
SSLCERT_GEOTRUST_RAPIDSSL_WILDCARD_ANNUAL1	Annual fee for a GeoTrust RapidSSL Wildcard Certificate
SSLCERT_GEOTRUST_RAPIDSSL_WILDCARD_SETUP	Additional setup fee for a GeoTrust RapidSSL Wildcard Certificate
SSLCERT_CERTPROVIDER_CERTTYPE_CURRENCY	Currency that is used (ANNUAL/SETUP) for respective Cert Type

Prices are calculated according to the daily exchange rate of the ECB (European Central Bank, www.ecb.int), if the SSLCERT relation currency and user account currency are different!

3. SSLCERT Environment DB

There are currently no environment keys used for SSLCERTs.

4. Commands

All SSLCERT related commands can be submitted through the default API Gateways as described in the core API reference manual.

4.1 SSLCERT Commands

4.1.1 CreateSSLCert

Description

The command creates a new SSL Cert order, using a CSR (Certificate Sign Request) and some other personal data (i.e. Contact-Address) that must be provided by you within the request struct.

Availability

No limitations.

Input Parameters

submit the request using the following syntax:

BASE-URL?s_login=_reseller.de_**&s_pw=**_secret_**&command**=_command_**&**
parameter1=value1**&**_parameter2=value2_**&**_parameter3=value3..._

Parameter	Obligation	Definition	Type
s_login	required	Login ID of the user account	TEXT
s_pw	required	Account password	TEXT
s_user	optional	User ID of the user as which the command shall be executed (must be a subuser of s_login)	TEXT
command	required	Name of command to be executed	TEXT
sslcertclass	required	Choose the type of product, possible values: COMODO_INSTANTSSL COMODO_INSTANTSSLPRO COMODO_EVSSL COMODO_PREMIUMSSL COMODO_ESSENTIALSSL COMODO_UCC COMODO_WILDCARDSSL THAWTE_SSL123 THAWTE_SSLWEBSERVER THAWTE_SSLWEBSERVEREV SYMANTEC_SECURESITE SYMANTEC_SECUREDITEPRO SYMANTEC_SECURESITEEV SYMANTEC_SECURESITEPROEV GEOTRUST_QUICKSSLPREMIUM GEOTRUST_RAPIDSSL GEOTRUST_RAPIDSSL_WILDCARD	TEXT
period	required	Expiretime of the signed certificate in years possible: 1Y, 2Y, 3Y	INTEGER
serversoftware	required	APACHESSL|APACHESSLEAY|APACHE2|IIS|OTHER	TEXT
alternatecn0-N	optional	Additional common names for Comodo UCC	TEXT
name	required	Your full name in the form "$firstname $lastname".	TEXT
street	required	Your Address	TEXT
zip	required	Your postal code	TEXT
city	required	Your city	TEXT
province	optional	State or province	TEXT

Parameter	Obligation	Definition	Type
csr0...csrN	required	The certificate sign request (CSR) by line, represented as csr0, csr1, csr2, ... , csrN: csr0 = -----BEGIN CERTIFICATE REQUEST----- csr1 = A34)$/45BF... csr2 = GG.. csr3 = ... csrN = -----END CERTIFICATE REQUEST-----	TEXT
jobtitle	required	Your job title or position within your company.	TEXT
phone	required	Your phone number.	TEXT
fax	required	Your fax number.	TEXT
email	required	Confirmation email address	TEXT

Returned Properties and Values

Code	Description
200	Command completed successfully
504	The command failed due to a missing or misspelled parameter
541	The command failed due to an internal error, i.e. if a nonexisting sslcertclass has been chosen

Property	Description
sslcertid	The unique object ID number in our system
sslcertclass	The sslcertclass as chosen in the request
status	After the placed order the initial status is always "PENDING"
createddate	Date/Time of the order
updateddate	Not of interest yet for ssl certificates
expirationdate	Date/Time of the expiration

Notes:

• Comodo certificates are normally issued within 1 minute, Thawte certificate are issued within some minutes.

4.1.2 StatusSSLCert

Description

Query your certificate sign request, the availability status of a cert, the signed cert data and expiration informations.

Availability

The SSLcert-ID must exist.

Input Parameters

submit the request using the following syntax:

BASE-URL?s_login=reseller.de**&s_pw=**secret**&command=**command**&**
parameter1=value1**&**parameter2=value2**&**parameter3=value3...

Parameter	Obligation	Definition	Type
s_login	required	Login ID of the user account	TEXT
s_pw	required	Account password	TEXT
s_user	optional	User ID of the user as which the command shall be executed (must be a subuser of s_login)	TEXT
command	required	Name of command to be executed	TEXT
sslcertid	required	The unique ID of the SSL-Cert ordering process	TEXT

Returned Properties and Values

Code	Description
200	Command completed successfully
541	The command failed because the chosen sslcertid is not assigned
504	Missing Parameter

Property	Description
sslcertid	The unique object ID number in our system
sslcertclass	The sslcertclass as chosen in the request
status	PENDING, if certificate has not been issued yet ACTIVE, if certificate has been issued.
createddate	Date/Time of the order
updateddate	Not of interest yet for ssl certificates
expirationdate	Date/Time of the expiration
csr0...csrN	Your certificate sign request by line (csr0, csr1, ... , csrN)
crt0...crtN	Your signed certificate by line (crt0, crt1, ... , crtN)
cacrt	Intermediate / Root CA

Notes:

• The CRT property of Thawte's certificates contains only the signed cert itself, because nothing other is needed for the installation in an apache webserver. The CRT property of Comodo's certificates contains (in that order) the signed cert, the intermediate cert, the root certificate.

4.1.3 RenewSSLCert

Description

The command renews an existing SSL Cert.

Availability

No limitations.

Input Parameters

submit the request using the following syntax:

BASE-URL?s_login=_reseller.de_**&s_pw=**_secret_**&command**=_command_**&**
parameter1=value1**&**_parameter2=value2_**&**_parameter3=value3..._

Parameter	Obligation	Definition	Type
s_login	required	Login ID of the user account	TEXT
s_pw	required	Account password	TEXT
s_user	optional	User ID of the user as which the command shall be executed (must be a subuser of s_login)	TEXT
command	required	Name of command to be executed	TEXT
sslcertid	required	SSL cert ID	TEXT
period	required	Expiretime of the signed certificate in years possible: 1Y, 2Y, 3Y	INTEGER

Returned Properties and Values

Code	Description
200	Command completed successfully
504	The command failed due to a missing or misspelled parameter
541	The command failed due to an internal error, i.e. if a nonexisting sslcertclass has been chosen

Property	Description
sslcertid	The unique object ID number in our system
sslcertclass	The sslcertclass as chosen in the request
status	After the placed order the initial status is always "PENDING"
createddate	Date/Time of the order
updateddate	Not of interest yet for ssl certificates
expirationdate	Date/Time of the expiration

Notes:

• Comodo certificates are normally issued within 1 minute, Thawte certificate are issued within some minutes.

4.1.4 QuerySSLCertList

Description

The command queries a list of all your cert orders.

Availability

Always.

Input Parameters

submit the request using the following syntax:

BASE-URL?s_login=_reseller.de_**&s_pw=**_secret_**&command**=_command_**&**
parameter1=value1**&**_parameter2=value2_**&**_parameter3=value3..._

Parameter	Obligation	Definition	Type
s_login	required	Login ID of the user account	TEXT
s_pw	required	Account password	TEXT
command	required	Name of command to be executed, here: QuerySSLCertList	TEXT
userdepth	optional	Possible values: SELF (only own objects) SUBUSER (only your subusers' objects) ALL (your own and your subusers' objects)	TEXT
wide	optional	Possible values: 0 or 1 If set to "1" advanced response information is given back	INTEGER
first	optional	Shows only objects beginning from objectindex "first", default: first=0	INTEGER
last	optional	Shows only the objects to the objectindex "last", default: inf	INTEGER
limit	optional	Shows only that amount of objects, default: limit=1000. First, Last & Limit are similar used as in a SQL query string (i.e. "SELECT x,y,z FROM tab LIMIT first,limit")	INTEGER
sslcertid	optional	Gives back only the record that contains the specified sslcertid.	TEXT
mincreateddate	optional	Limit your search to objects that have been created after mincreateddate	TEXT
maxcreateddate	optional	Limit your search to objects that have been created before maxcreateddate	TEXT
minupdateddate	optional	Limit your search to objects that have been last modified after minupdateddate	TEXT
maxupdateddate	optional	Limit your search to objects that have been last modified before maxupdateddate	TEXT
minexpirationdate	optional	Limit your search to objects that will expire after minexpirationdate	TEXT
maxexpirationdate	optional	Limit your search to objects that will expire before maxexpirationdate	TEXT

Returned Properties and Values

Code	Description
200	Command completed successfully
541	The command failed

Property	Description
sslcertid[n]	The unique object ID numbers in the system
total	Total count of records
first	Index of the first element in the response
count	How many records are given back in that query
last	Index of the last element in the response
limit	As chosen in the request
sslcertcn[n]	Common Name (= domainname) for which the cert has been signed. Only availabe with paramater wide set to 1.
sslcertstatus[n]	Status information: Either ACTIVE or PENDING. Only available with paramater wide set to 1.
sslcertcreateddate[n]	Dates of creation. Only available with paramater wide set to 1.
sslcertupdateddate[n]	Dates of last update. Only available with parameter wide set to 1.
sslcertexpirationdate[n]	Dates of expirations. Only available with parameter wide set to 1.
user[n]	Subuser, that is the cert owner. Only available with parameter wide set to 1.
parentuser[n]	Direct parentusers of the cert owner users. Only available with parameter wide set to 1.
sslcertclass[n]	Product classes (like THAWTE_SSL123) of the certs. Only available with parameter wide set to 1.

Notes:

• none

4.1.5 ParseSSLCertCSR

Description

Parses the information that is contained in a CSR (certificate sign request) and gives back common name (=domainname), company informations like email-address and so on. The command can be used to check the validity of a CSR-File.

Availability

No limitations

Input Parameters

submit the request using the following syntax:

BASE-URL?s_login=reseller.de**&s_pw=**secret**&command=**command**&**
parameter1=value1**&**parameter2=value2**&**parameter3=value3...

Parameter	Obligation	Definition	Type
s_login	required	Login ID of the user account	TEXT
s_pw	required	Account password	TEXT
s_user	optional	User ID of the user as which the command shall be executed (must be a subuser of s_login)	TEXT
command	required	Name of command to be executed, here: command=ParseSSLCertCSR	TEXT
csr0...csrN	required	The certificate sign request (CSR) by line, represented as csr0, csr1, csr2, ... , csrN: csr0 = -----BEGIN CERTIFICATE REQUEST----- csr1 = A34)$/45BF... csr2 = 1E.. csr3 = ... csrN = ----- END CERTIFICATE REQUEST -----	TEXT

Returned Properties and Values

Code	Description
200	Command completed successfully
541	The command failed

Property	Description
CN	Common Name (= domainname)
O	Owner Name or Company
ST	State
C	2 letter County Code (i.e. "DE")
EMAILADDRESS	Mailaddress that has been compiled into the CSR
L	City

Notes:

• none

4.1.6 ReissueSSLCert

Description

Update the CSR of a existing certificate. In the event that a company name changes or the private key is getting lost.

Availability

No limitations

Input Parameters

submit the request using the following syntax:

BASE-URL?s_login=reseller.de**&s_pw=**secret**&command=**command**&**
parameter1=value1**&**parameter2=value2**&**parameter3=value3...

Parameter	Obligation	Definition	Type
s_login	required	Login ID of the user account	TEXT
s_pw	required	Account password	TEXT
s_user	optional	User ID of the user as which the command shall be executed (must be a subuser of s_login)	TEXT
command	required	Name of command to be executed	TEXT
sslcertid	required	The unique object ID number in our system	TEXT
csr0...csrN	required	The certificate sign request (CSR) by line, represented as csr0, csr1, csr2, ... , csrN: csr0 = -----BEGIN CERTIFICATE REQUEST----- csr1 = A34)$/45BF... csr2 = 1E.. csr3 = ... csrN = ----- END CERTIFICATE REQUEST -----	TEXT
email	optional	Email address to send the confirmation mail to	TEXT

Returned Properties and Values

Code	Description
200	Command completed successfully
541	The command failed

Notes:

• none

4.1.7 ResendSSLCertEmail

Description

Resend the order confirmation email.

Availability

No limitations

Input Parameters

submit the request using the following syntax:

BASE-URL?s_login=reseller.de**&s_pw=**secret**&command=**command**&**
parameter1=value1**&**parameter2=value2**&**parameter3=value3...

Parameter	Obligation	Definition	Type
s_login	required	Login ID of the user account	TEXT
s_pw	required	Account password	TEXT
s_user	optional	User ID of the user as which the command shall be executed (must be a subuser of s_login)	TEXT
command	required	Name of command to be executed	TEXT
sslcertid	required	The unique object ID number in our system	TEXT
email	optional	Email address to send the confirmation mail to	TEXT

Returned Properties and Values

Code	Description
200	Command completed successfully
541	The command failed

Notes:

•   Please make sure that your antispam software does not reject this email.

4.1.8 RevokeSSLCert

Description

Resend the order confirmation email.

Availability

No limitations

Input Parameters

submit the request using the following syntax:

BASE-URL?s_login=*reseller.de***&s_pw=***secret***&command**=*command***&**
*parameter1=value1***&***parameter2=value2***&***parameter3=value3...*

Parameter	Obligation	Definition	Type
s_login	required	Login ID of the user account	TEXT
s_pw	required	Account password	TEXT
s_user	optional	User ID of the user as which the command shall be executed (must be a subuser of s_login)	TEXT
command	required	Name of command to be executed	TEXT
sslcertid	required	The unique object ID number in our system	TEXT
reason	required	Reason why the certificate should be revoked	TEXT

Returned Properties and Values

Code	Description
200	Command completed successfully
541	The command failed

Notes:

• none

4.1.9 QuerySSLCertDCVEMailAddressList

Description

Query a list of possible confirmation email addresses. (obtained out of the domain's WHOIS)

Availability

No limitations

Input Parameters

submit the request using the following syntax:

BASE-URL?s_login=_reseller.de_**&s_pw=**_secret_**&command**=_command_**&**
parameter1=value1**&**_parameter2=value2_**&**_parameter3=value3..._

Parameter	Obligation	Definition	Type
s_login	required	Login ID of the user account	TEXT
s_pw	required	Account password	TEXT
s_user	optional	User ID of the user as which the command shall be executed (must be a subuser of s_login)	TEXT
command	required	Name of command to be executed	TEXT
domain	required	Domain which should be secured by certificate	TEXT
csr0...csrN	required	The certificate sign request (CSR) by line, represented as csr0, csr1, csr2, ... , csrN: csr0 = -----BEGIN CERTIFICATE REQUEST----- csr1 = A34)$/45BF... csr2 = 1E.. csr3 = ... csrN = ----- END CERTIFICATE REQUEST -----	TEXT

Returned Properties and Values

Code	Description
200	Command completed successfully
541	The command failed

Notes:

• none