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Version Release Notes

Version 1.1 – 04/28/2011 - Updated test system addresses
Version 2.0 – 06/27/2011
  ▪ Included updated functionality (OrderCertificate, Reissue, Cancel, Revoke)
Version 2.1 – 12/20/2012
  ▪ Updated with PKCS7 (Admin provides CSR/PKCS10) functionality
Version 2.2 – 04/10/2013
  ▪ Updated PKCS12 (Section 6) & PKCS7 (Section 5) Admin Enrollment functionality based on Mozilla Policy 2.1
Version 2.3 – 08/21/2013
  ▪ Added query functionality (Section 14)
Version 2.4 – 02/04/2015
  ▪ Corrected explanation about API response
Version 2.5 – 02/16/2015
  ▪ Corrected API response structure
Version 2.6 – 08/18/2015
  ▪ Updated GetOrders query parameters and added OrderDS method
Version 2.6.1 – 08/29/2016
  ▪ Updated Error Codes (Section 15.2)
  ▪ Added New Test Account URL (Section 2.2) and its WSDL files (Section 3.2)
Version 2.7 – 09/22/2017
  ▪ Added GetProfiles method (Section 12.3) and DN/UPN requirement (Section 13.4)
  ▪ Added Email domain pre-vetting (Section 4.2)
  ▪ Deleted Old testsystem URL.
Version 2.7.1 – 08/12/2017
  ▪ Removed restriction of GetOrderByOrderID
  ▪ Added Section 14. explaining Acceptable DateTime for Query.
Version 2.7.2 – 02/15/2018
  ▪ Added <SubscriberEmailAddress> Element on OrderDS – effective March 26, 2018
  ▪ Dropped CDS related Product codes
Version 2.7.3 – 04/09/2018
  ▪ Minor Change for Typo and added Notes for OrderDS
Version 2.8.0 – 09/20/2018
  ▪ Added <Extensions> as Optional for OrderPKCS12, OrderAndIssueCertificate and OrderCertificate
  ▪ Added ReissueCertificate method
Version 2.8.1 – 10/17/2018
  ▪ Added “RSASSA-PSS(SHA256) in <HashType> for GetProfiles.
  ▪ Updated screenshot in section 4.1
  ▪ Added SMIME only product for OrderCertificate, OrderAndIssueCertificate and OrderCertificate.
Version 2.9.0 – 02/25/2019
  ▪ Added element <AATLSignatureValidityDuration> for use with GetOrders, GetOrderByOrderID and GetProfiles query Response.
Version 2.9.1 – 02/25/2019
  ▪ Drop element <AATLSignatureValidityDuration> for use with GetOrders, GetOrderByOrderID and GetProfiles query Response.
Version 2.9.2 – 08/14/2019

- Updated product code for S/MIME only, correct code ePkiSmimeOnly

Version 2.9.3 – 09/11/2020

- Updated ability to change the certificate issuance format from the original when reissuing, adding the PKCS12 option

Version 2.9.4 – 08/05/2022

- Added Fortify key generation option EPKI AATL,EPKI,EPKI Reissue,EPKI ReissueCertificate

Version 2.9.5 – 08/26/2022

- Remove Fortify key generation option EPKI (till the fix S/MIME problem)

Version 2.9.6 – 09/14/2022

- Add productcode ePkiDSAAATLShortLived
- 13.2 Change limit of 400 cases to 1000 cases

Version 2.9.7 – 11/29/2022

- URL not in use
  http://stub.query.gasapiserver.esp.globalsign.com  Corrected to
  https://system.globalsign.com/cr/ws/

Version 2.9.8 – 02/02/2023

- GetOrderByOrderID and GetOrders for ePkDSPersonalHsm, ePkDSDeptHsm, ePkDSPersonal, ePkiDSAAATL, ePkiDSSAATLASP, ePkiDSDept are results of
  <DNSerialNumber> are displayed. For other product codes, <DNSerialNumber xsi:nil="true" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/> is returned.

Version 2.9.9 – 30/03/2023

- OrderAndIssueCertificate, OrderCertificate, OrderPkcs12 add
  <SubscriberEmailAddress> for SMIMEBR (Aug 2023)
- OrderAndIssueCertificate, OrderCertificate, OrderPkcs12 cannot add
  <OrganizationUnit> for SMIMEBR (Aug 2023)
- GetOrders & GetOrderByOrderID add <RenewalStatus> (planning)
- Add <ws:Suspendrenewal> and <ws:Resumerenewal> for ShortLiveCert (planning)

Version 3.0.0 – 13/04/2023

- OrderAndIssueCertificate, OrderCertificate, OrderPkcs12 add <SID> for SecurityIdentifier (July 2023 planning)

Version 3.0.1 – 18/05/2023

- OrderAndIssueCertificate, OrderCertificate, OrderPkcs12 add <SANRFC822EmailAddress>
  > (Aug 2023 planning)

Version 3.0.2 – 17/08/2023

- OrderAndIssueCertificate, OrderCertificate, OrderPkcs12 add note and Updated the Note described on July 28.
- OrderPkcs12 add Pkcs12 Normal Response <PKCS12Password>
- Certificate Password (used to protect private key) alphanumeric plus symbols

1. Overview

GlobalSign offers a Simple Object Access Protocol (SOAP) API to automate a number of critical functions you would typically need to perform via the web-based GlobalSign Certificate Center (GCC) including placing an order, querying the order status, and receiving an issued certificate.

The Enterprise PKI (EPKI) API allows customers to directly order client certificates including PersonalSign and AATL Signing Certificates for use cases such as S/MIME, Authentication, and Document Signing.

2. Ordering Workflow Overview

There are two types of ordering procedures, Admin enrollment and User enrollment. In the Admin scenario, the Admin performs all of the enrollment steps and receives the certificate. In the user enrollment scenario, the process is comparable to the GCC EPKI GUI, where the end user receives an enrollment email.

2.1 Order functions

<table>
<thead>
<tr>
<th>Function</th>
<th>API Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order Certificate (Admin enrollment)</td>
<td>OrderPkcs12</td>
</tr>
<tr>
<td>Order Certificate (Admin enrollment)</td>
<td>OrderAndIssueCertificate</td>
</tr>
<tr>
<td>Order Certificate (User enrollment)</td>
<td>OrderCertificate</td>
</tr>
<tr>
<td>Order AATL Certificate (Admin enrollment)</td>
<td>OrderDS</td>
</tr>
<tr>
<td>Cancel Certificate</td>
<td>Cancel</td>
</tr>
<tr>
<td>Reissue Certificate</td>
<td>Reissue</td>
</tr>
<tr>
<td>Immediate Reissue Certificate</td>
<td>ReissueCertificate</td>
</tr>
<tr>
<td>Revoke Certificate</td>
<td>Revoke</td>
</tr>
</tbody>
</table>

2.2 GlobalSign URL

Use the following URL to access the GlobalSign live API:
https://system.globalsign.com/cr/ws/GasOrderService

2.3 Test Account URLs

Use the following URL to access the GlobalSign Test API:
https://test-gcc.globalsign.com/cr/ws/GasOrderService

Note that test system accounts are available to API customers upon request.

3. WSDL files

3.1 GlobalSign URL

GlobalSign’s WSDL files are available at:
https://system.globalsign.com/cr/ws/GasOrderService?wsdl

3.2 Test Account URLs

GlobalSign’s test account WSDL files are available at:
Note that test system accounts are available to API customers upon request.

4. EPKI Configuration

4.1 EPKI Profile Configuration

EPKI Administrators must configure the profile they will use with the API commands. In your GCC account, click on the top tab ENTERPRISE PKI. On the left hand menu, click Profiles and then click Profile Configuration.

Select the correct profile to configure and click Next. On the Profile Configuration screen, add the IP address and adjust other settings as needed. Click Next to complete the configuration.

Note: The term “Hash Algorithm” has been replaced with “Signature Algorithm” when signing End Entity Certificates. Unless RSASSA-PSS is required to meet a business need, it’s recommend sha256RSA (default setting) be used for most orders.
Note: RSASSA-PSS is only reflected for use with PersonalSign2 Personal(ePKIPersonal), Department(ePKIDept) and S/MIME only (ePkiSmimeOnly). Other Certificates like AATL will be signed with SHA256withRSA.

4.2 Add Pre-Vetted Email Domains (Optional)

In order to include email addresses in certificates, you will need to register and pre-vet email domains to the profile. On the Profile Configuration screen, under Email Domains click the Configure button.

Enter the Email Domains that you need vetted and approved.

After entering the domains, you can view the vetting status and availability of the email domains by clicking Email Domain List in the left hand menu.
The Domain status will appear as “Approved” once vetting is complete and the domain is ready for use.
5. Ordering PKCS7 Certificates (Admin Enrollment with CSR/PKCS10)

1. Place PKCS7 order for PersonalSign or PersonalSign Department certificate
2. Receive response containing PKCS7
   (Out of API) Customer provides PKCS7 certificate to end user

5.1 Ordering and Issuing PKCS7 Certificate

OrderPkcs7 (OrderAndIssueCertificate) Request

Note: Certain <DnAttributes> may be fixed values depending on the profile used for the request.

(For instance, if the profile includes an OU, then those parameters should not be included in the request
since they will automatically be appended to the DN along with country code and Organization.)

After August 2023 release

<SANRFC822EmailAddress><SubscriberEmailAddress><Email> should be the same value.

When <ProfileID> is selected other than SMIMEBRICA, <SANRFC822EmailAddress> is not used.

When <ProfileID> is selected for SMIMEBRICA, <SubscriberEmailAddress> is not used.

When <ProfileID> is selected for SMIMEBRICA, <OrganizationUnit> is not used.

When <ProfileID> is selected for SMIMEBRICA, <SANRFC822EmailAddress> or <Email> is required.

When <ProfileID> is selected for SMIMEBRICA and order <ProductCode> ePkiPSDept,
<CommonName> must match <SANRFC822EmailAddress> or Profile Organization

  <Request>
    <OrderRequestHeader>
      <AuthToken>
        <UserName> 30 String
        <Password> 30 String
      </AuthToken>
    </OrderRequestHeader>
  </Request>
```xml
<AuthToken>
</AuthToken>
</OrderRequestHeader>
<ProfileID>MF20xxxxxxxxx</ProfileID>
<ProductCode>EPKIPSDept, EPKIPSPersonl, EPKIPSPersonalPro, ePkiSmimeOnly</ProductCode>
<Year>1,2 or 3</Year>
<CSR>4000 String</CSR>
<EPSOption?>true / false</EPSOption?>
<UPN?>64 String</UPN?>
<SID>128 String</SID>
<SANRFC822EmailAddress> after Aug 2023 255 String</SANRFC822EmailAddress>
<CommonName>64 String</CommonName>
<OrganizationUnit>64 String</OrganizationUnit>
<OrganizationUnit>64 String</OrganizationUnit>
<OrganizationUnit>64 String</OrganizationUnit>
<Email>255 String</Email>
<SubscriberEmailAddress> after Aug 2023 255 String</SubscriberEmailAddress>
<PickupPassword>256 String (See 13.3)</PickupPassword>
</DnAttributes>
</Request>

OrderPcks7 (OrderAndIssueCertificate) Normal Response

  <Response>
    <OrderResponseHeader>
      <SuccessCode>2</SuccessCode>
      <Timestamp>DateTime</Timestamp>
    </OrderResponseHeader>
    <OrderID>50 String</OrderID>
    <CERT>String</CERT>
  </Response>
</ns2:OrderAndIssueCertificateResponse>

OrderPcks7 (OrderAndIssueCertificate) Error Response

  <Response>
    <OrderResponseHeader>
      <SuccessCode>2</SuccessCode>
      <Errors>
        <Error>
          <ErrorCode>5</ErrorCode>
          <ErrorField>1000 String</ErrorField>
          <ErrorMessage>1000 String</ErrorMessage>
        </Error>
      </Errors>
    </OrderResponseHeader>
    <Timestamp>DateTime</Timestamp>
  </Response>
</ns2:OrderAndIssueCertificateResponse>
```
6. Ordering PKCS12 Certificates (Admin Enrollment Without CSR/PKCS10)

1. Place PKCS12 order for PersonalSign or PersonalSign Department certificate
2. Receive response containing PKCS12 in base64
   (Out of API) Customer provides PKCS12 certificate to end user

6.1 Ordering PKCS12 certificate

OrderPkcs12 Request
Note: Certain <DnAttributes> may be fixed values depending on the profile used for the request.
(For instance, if the profile includes an OU, then those parameters should not be included in the request
since they will automatically be appended to the DN along with country code and Organization.)
After August 2023 release
<SANRFC822EmailAddress><SubscriberEmailAddress><Email> should be the same value.
When <ProfileID> is selected other than SMIMEBRICA, <SANRFC822EmailAddress> is not used.

When <ProfileID> is selected for SMIMEBRICA, <SubscriberEmailAddress> is not used.
When <ProfileID> is selected for SMIMEBRICA, <OrganizationUnit> is not used.
When <ProfileID> is selected for SMIMEBRICA, <SANRFC822EmailAddress> or <Email> is required.
When <ProfileID> is selected for SMIMEBRICA and order <ProductCode> ePkiPSDept,
<CommonName> must match <SANRFC822EmailAddress> or Profile Organization

<ns2:OrderPkcs12 xmlns:ns2="https://system.globalsign.com/cr/ws/">
  <Request>
    <OrderRequestHeader>
      <AuthToken>
        <UserName> 30 String
        <Password> 30 String
      </AuthToken>
    </OrderRequestHeader>
  </Request>
</ns2:OrderPkcs12>
<AuthToken></AuthToken>
</OrderRequestHeader>
<ProfileID>MP20xxxxxxxxx</ProfileID>
<PKCS12PIN>117 (※ after Aug2023 AUTOGEN)</PKCS12PIN>
<ProductCode>EPKIPSDep, EPKIPSPersonal, EPKIPSPersonalPro, ePkiSmimeOnly</ProductCode>
<Year>1,2 or 3</Year>
<EPSOption>? String</EPSOption>
<UPN>? true/false</UPN>
<SID>? String</SID>
<ProfileID>MP20xxxxxxxxx</ProfileID>
<PKCS12PIN>117 (※ after Aug2023 AUTOGEN)</PKCS12PIN>
<String><ProductCode>EPKIPSDep, EPKIPSPersonal, EPKIPSPersonalPro, ePkiSmimeOnly</ProductCode>
<Year>1,2 or 3</Year>
<EPSOption>? true/false</EPSOption>
<UPN>? String</UPN>
<SID>? String</SID>
<ProfileID>MP20xxxxxxxxx</ProfileID>
<PKCS12PIN>117 (※ after Aug2023 AUTOGEN)</PKCS12PIN>
<String><ProductCode>EPKIPSDep, EPKIPSPersonal, EPKIPSPersonalPro, ePkiSmimeOnly</ProductCode>
<Year>1,2 or 3</Year>
<EPSOption>? true/false</EPSOption>
<UPN>? String</UPN>
<SID>? String</SID>
<ProfileID>MP20xxxxxxxxx</ProfileID>
<PKCS12PIN>117 (※ after Aug2023 AUTOGEN)</PKCS12PIN>
<String><ProductCode>EPKIPSDep, EPKIPSPersonal, EPKIPSPersonalPro, ePkiSmimeOnly</ProductCode>
<Year>1,2 or 3</Year>
<EPSOption>? true/false</EPSOption>
<UPN>? String</UPN>
<SID>? String</SID>
<ProfileID>MP20xxxxxxxxx</ProfileID>
<PKCS12PIN>117 (※ after Aug2023 AUTOGEN)</PKCS12PIN>
<String><ProductCode>EPKIPSDep, EPKIPSPersonal, EPKIPSPersonalPro, ePkiSmimeOnly</ProductCode>
<Year>1,2 or 3</Year>
<EPSOption>? true/false</EPSOption>
<UPN>? String</UPN>
<SID>? String</SID>
<ProfileID>MP20xxxxxxxxx</ProfileID>
<PKCS12PIN>117 (※ after Aug2023 AUTOGEN)</PKCS12PIN>
<!--Request-->
</Request>
</OrderPkcs12>

**Pkcs12 Normal Response**

```xml
<ns2:OrderPkcs12Response xmlns:ns2="https://system.globalsign.com/cr/ws/">
  <Response>
    <OrderResponseHeader>
      <SuccessCode>2</SuccessCode>
      <Timestamp>DateTime</Timestamp>
    </OrderResponseHeader>
    <OrderID>BASE64PKCS12</OrderID>
    <PKCS12>String</PKCS12>
    <PKCS12Password>String</PKCS12Password>
  </Response>
</ns2:OrderPkcs12Response>
```

**Pkcs12 Error Response**

```xml
<ns2:OrderPkcs12Response xmlns:ns2="https://system.globalsign.com/cr/ws/">
  <Response>
    <OrderResponseHeader>
      <SuccessCode>2</SuccessCode>
      <Errors>
        <Error>
          <ErrorCode>5</ErrorCode>
          (<ErrorField>1000</ErrorField>)? 1000 String
          <ErrorMessage>1000</ErrorMessage>
        </Error>+
      </Errors>
      <Timestamp>DateTime</Timestamp>
    </OrderResponseHeader>
  </Response>
</ns2:OrderPkcs12Response>
```
7. Ordering EPKI Certificates (User enrollment)

1. Place EPKI Certificate order for PersonalSign or PersonalSign Department certificate
2. Receive response containing success/error and OrderID
   (Out of API) End User will receive an enrollment link via email.

7.1 Ordering EPKI Certificate

OrderCertificate Request

Note: Certain <DnAttributes> may be fixed values depending on the profile used for the request.

(For instance, if the profile includes an OU, then those parameters should not be included in the request since they will automatically be appended to the DN along with country code and Organization.)

After August 2023 release

<SANRFC822EmailAddress><SubscriberEmailAddress><Email> should be the same value.

When <ProfileID> is selected other than SMIMEBRICA, <SubscriberEmailAddress> or <Email> is required.

When <ProfileID> is selected other than SMIMEBRICA, <SANRFC822EmailAddress> is not used.

When <ProfileID> is selected for SMIMEBRICA, <SubscriberEmailAddress> is not used.
When <ProfileID> is selected for SMIMEBRICA, <OrganizationUnit> is not used.

When <ProfileID> is selected for SMIMEBRICA, <SANRFC822EmailAddress> or <Email> is required.

When <ProfileID> is selected for SMIMEBRICA and order <ProductCode> ePkiPSDept, <CommonName> must match <SANRFC822EmailAddress> or Profile Organization

<soapenv:Envelope xmlns:ws="https://system.globalsign.com/ap/pc/ws/">
  <soapenv:Header/>
</soapenv:Envelope>
<soapenv:Body>
  <ns2:OrderCertificate xmlns:ns2="https://system.globalsign.com/cr/ws/">
    <Request>
      <OrderRequestHeader>
        <AuthToken>
          <UserName>30</UserName>
          <Password>30</Password>
        </AuthToken>
      </OrderRequestHeader>
      <ProfileID>MP20xxxxxxxxx</ProfileID>
      <ProductCode>EPKI</ProductCode>, EPKIPersonal, ePKISmimeOnly
      <Year>1,2,3</Year>
      <HasCSR>true/false</HasCSR>
      <HasFortify>true/false</HasFortify>
      <EFSOption>true/false</EFSOption>
      <UPN>255</UPN>
      <SID>128</SID>
      <SANRFC822EmailAddress>after Aug 2023</SANRFC822EmailAddress>
      <DnAttributes>
        <CommonName>64</CommonName>
        (<OrganizationUnit>)? 64
        (<OrganizationUnit>)? 64
        (<OrganizationUnit>)? 64
      </DnAttributes>
      <Email>255</Email>
      <SubscriberEmailAddress>after Aug 2023</SubscriberEmailAddress>
      <PickupPassword>256</PickupPassword>
      (<EmailLanguage>)? 2
      (<Extensions>
        (<Extension>
          <Name>String</Name>
          <Value>String</Value>
        </Extension>
        )* <Extensions>
      </Extensions>)?
    </Request>
  </OrderCertificate>
</soapenv:Body>

OrderCertificate Normal Response

  <Response>
    <OrderResponseHeader>
      <SuccessCode>2</SuccessCode>
      <Timestamp>DateTime</Timestamp>
    </OrderResponseHeader>
    <OrderID>50</OrderID>
  </Response>
</ns2:OrderCertificateResponse>

OrderCertificate Error Response

  <Response>
    <OrderResponseHeader>
      <Errors>
        <ErrorCode>5</ErrorCode>
        (<ErrorField>)? 1000
        (<ErrorMessage>)? 1000
      </Errors>
    </OrderResponseHeader>
    <Errors>
      <Timestamp>DateTime</Timestamp>
    </Errors>
  </Response>
</ns2:OrderCertificateResponse>
8. Ordering EPKI AATL Certificates

1. Place EPKI Certificate order for AATL certificate
2. Receive response containing success/error, OrderID and optionally a PKCS7

8.1 Ordering AATL Certificates

OrderDS Request

Note: Certain <DnAttributes> may be fixed values depending on the Profile used for the request.

(For instance, if the profile already includes an OU, then those parameters should not be included in the request since they will automatically be appended to the DN along with country code and Organization.)

Note: The OrderDS request supports both enrollment and direct issuance of certificates. Depending on the order type, certain fields may become mandatory/optional.

Note: <Email> is restricted when using <IssueType> as “ISSUE.” In this case, the email domain needs to be pre-verified. For more details, please see Section 4.2.

Under <IssueType> is “REGISTER,” when an <Email> is not provided in the Distinguished Name (i.e. if you choose not to include an email address in an AATL Certificate) a Subscriber Email address must be set in the <SubscriberEmailAddress>. If neither Email or <SubscriberEmailAddress> are set, an error will be returned. If both are set, a notification email will be sent to <Email> and <SubscriberEmailAddress> will be ignored. Note that <SubscriberEmailAddress> will be ignored under ePKI AATL ASP (e.g. ePKIDSAATLASP).

<soapenv:Envelope xmlns:ws="https://system.globalsign.com/cr/ws/">
  <soapenv:Header/>
</soapenv:Envelope>
OrderDS Normal Response

<OrderCertificateResponse xmlns:ns2="https://system.globalsign.com/cr/ws/">
  <Response>
    <OrderResponseHeader>
      <SuccessCode> 2 Int
      <Timestamp> DateTime
    </OrderResponseHeader>
    <OrderID> 50 String
    <Certificate> String - Optional when using ISSUE
    </Certificate>
  </Response>
</OrderCertificateResponse>

OrderCertificate Error Response

<OrderCertificateResponse xmlns:ns2="https://system.globalsign.com/cr/ws/">
  <Response>
    <OrderResponseHeader>
      <SuccessCode> 2 Int
      <Errors>
        <ErrorCode> 5 Int
        <ErrorField>? 1000 String
        <ErrorMessage> 1000 String
        <Errors>? DateTime
      </Errors>
    </OrderResponseHeader>
  </Response>
</OrderCertificateResponse>
9. Canceling EPKI Certificates

1. Place Cancel Request for PersonalSign or PersonalSign Department certificate
2. Receive response containing Success Code and the OrderID in case of success

9.1 Canceling EPKI Certificate

Cancel Request

```xml
<soapenv:Body>
  <ws:Cancel>
    <Request>
      <OrderRequestHeader>
        <AuthToken>
          <UserName>30 String</UserName>
          <Password>30 String</Password>
        </AuthToken>
      </OrderRequestHeader>
      <OrderID>50 String</OrderID>
    </Request>
  </ws:Cancel>
</soapenv:Body>
```

Cancel Normal Response

```xml
<ns2:CancelResponse xmlns:ns2="https://system.globalsign.com/cr/ws/">
  <Response>
    <OrderResponseHeader>
      <SuccessCode>2 Int</SuccessCode>
      <Timestamp>DateTime</Timestamp>
    </OrderResponseHeader>
    <OrderID>50 String</OrderID>
  </Response>
</ns2:CancelResponse>
```
Cancel Error Response

```xml
<ns2:CancelResponse xmlns:ns2="https://system.globalsign.com/cr/ws/">
  <Response>
    <OrderResponseHeader>
      <SuccessCode>2</SuccessCode>
      <Errors>
        <ErrorCode>5</ErrorCode>
        <ErrorField>1000</ErrorField>
        <ErrorMessage>1000</ErrorMessage>
      </Errors>
    </OrderResponseHeader>
    <Timestamp>DateTime</Timestamp>
  </Response>
</ns2:CancelResponse>
```

10. Reissuing EPKI Certificates

1. Place Reissue Request for PersonalSign or PersonalSign Department certificate
2. Receive response containing Success Code and the OrderID in case of success

Note: This Existing Reissue API commands remain backwards compatible
Note: Certificate format can be changed from PKCS7 to PKCS12 if set to True when reissuing. If the option does not exist issue certificate in original format.

10.1 Reissue EPKI Certificate

Reissue Request

```xml
<soapenv:Body>
  <ws:Reissue>
    <Request>
      <OrderRequestHeader>
        <AuthToken
```

---

GlobalSign API for EPKI Certificates – v3.0.23

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Reissue Normal Response

<ns2:ReissueResponse xmlns:ns2="https://system.globalsign.com/cr/ws/">
  <Response>
    <OrderResponseHeader>
      <SuccessCode>2</SuccessCode>
      <Timestamp></Timestamp>
    </OrderResponseHeader>
    <OrderID>50</OrderID>
  </Response>
</ns2:ReissueResponse>

Reissue Error Response

<ns2:ReissueResponse xmlns:ns2="https://system.globalsign.com/cr/ws/">
  <Response>
    <OrderResponseHeader>
      <SuccessCode>2</SuccessCode>
      <Errors>
        <ErrorCode>5</ErrorCode>
        <ErrorField>1000</ErrorField>
        <ErrorMessage>1000</ErrorMessage>
      </Errors>
      <Timestamp></Timestamp>
    </OrderResponseHeader>
    <Response>
      </Response>
  </Response>
</ns2:ReissueResponse>
11. Immediate Reissuing EPKI Certificates

The API supports responding with reissued certificate as a response and registered reissue using the same Reissue method. Some specific product codes like AATL ASP in an original order under Request was “Register” is not supported (See the existing Reissue API described in Chapter 10 for this support)

Automatic Reissue (e.g. return PKCS#12 or new Certificate format as new Reissue API response) assumes the following conditions:

1. If Original Certificate was issued by PKCS#12, Online Reissue should be returned in the same format.
2. If Original Certificate was requested by PKCS#10, Online ReIssue should be returned in the Certificate format.
3. If Original Certificate issuance format is changed, Online Reissue format can be changed from original format to be returned in new format (PKCS#10 => PKCS#12).
4. SubscriberEmailAddress Element should be ignored if Email in DN is configured in Original Order. If Email DN in the Original Order or SubscriberEmailAddress in ReissueRegisterInfo do not exist, -102 Error should be returned.
   - If only “Contact Email Address” (e.g. No Email in DN but set with SubscriberEmailAddress before):
     - SubscriberEmailAddress in ReissueRegisterInfo exists → replace new SubscriberEmailAddress.
     - SubscriberEmailAddress in ReissueRegisterInfo does NOT exist → use “Contact Email Address”
5. 2nd and after Reissue should be same behavior as Original Issuance.
11.1 Immediate Reissuing EPKI Certificate

**Request**

```xml
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ws="https://system.globalsign.com/cr/ws/">
  <soapenv:Header/>
  <soapenv:Body>
    <ws:ReissueCertificate>
      <Request>
        <OrderRequestHeader>
          <AuthToken>
            <UserName>30</UserName>
            <Password>30</Password>
          </AuthToken>
        </OrderRequestHeader>
        <TargetOrderID>50</TargetOrderID>
        <ReissueRegisterInfo>
          <SubscriberEmailAddress>255</SubscriberEmailAddress>
          <PickupPassword>256</PickupPassword>
          <HasForitfy>String true, false ※EPKIAATL only</HasForitfy>
        </ReissueRegisterInfo>
        <ReissuePKCS12Info>
          <PKCS12PIN>117</PKCS12PIN>
        </ReissuePKCS12Info>
        <ReissueCertInfo>
          <CSR>4000</CSR>
        </ReissueCertInfo>
      </Request>
    </ws:ReissueCertificate>
  </soapenv:Body>
</soapenv:Envelope>
```

**Response**

```xml
  <Response>
    <OrderResponseHeader>
      <SuccessCode>2</SuccessCode>
      <Timestamp>DateTime</Timestamp>
    </OrderResponseHeader>
    <OrderID>50</OrderID>
    <Type>String(Order/ PKCS12 / Cert)</Type>
    <BASE64PKCS12>String (If PKCS12)</BASE64PKCS12>
    <PKCS12>String (If PKCS12)</PKCS12>
    <CERT>String (If Cert, included DS)</CERT>
  </Response>
</ns2:ReissueCertificate>
```

**Error Response**

```xml
<ns2:OrderPkcs12Response xmlns:ns2="https://system.globalsign.com/cr/ws/">
  <Response>
    <OrderResponseHeader>
      <SuccessCode>2</SuccessCode>
      <Errors>
        <Error>
          <ErrorCode>5</ErrorCode>
          <ErrorField>1000</ErrorField>
          <ErrorMessage>1000</ErrorMessage>
        </Error>
        <Timestamp>DateTime</Timestamp>
      </Errors>
    </OrderResponseHeader>
  </Response>
</ns2:OrderPkcs12Response>
```
12. Revoking EPKI Certificates

1. Place Revoke Request for PersonalSign or PersonalSign Department certificate
2. Receive response containing Success Code and the OrderID in case of success

12.1 Revoking EPKI Certificate

Revoke Request

```xml
<soapenv:Body>
  <ws:Revoke>
    <Request>
      <OrderRequestHeader>
        <AuthToken>
          <UserName>30 String</UserName>
          <Password>30 String</Password>
        </AuthToken>
        <OrderID>50 String</OrderID>
      </OrderRequestHeader>
    </Request>
  </ws:Revoke>
</soapenv:Body>
```

Revoke Normal Response

```xml
<ns2:RevokeResponse xmlns:ns2="https://system.globalsign.com/cr/ws/">
  <Response>
    <orderResponseHeader>
      <SuccessCode>2 Int</SuccessCode>
      <Timestamp>DateTime</Timestamp>
    </orderResponseHeader>
    <OrderID>50 String</OrderID>
  </Response>
</ns2:RevokeResponse>
```

Revoke Error Response

```xml
<ns2:RevokeResponse xmlns:ns2="https://system.globalsign.com/cr/ws/">
  <Response>
    <orderResponseHeader>

```
13. Suspendrenewal Resumereneal for EPKIShortLivePS

Note: This is used only in EPKIShortLivedPS

<soapenv:Body>
<ws: Suspendrenewal>
  <!{}Optional:{>}
  <Request>
    <OrderRequestHeader>
      <AuthToken>
        <UserName> 30 String
        <Password> 30 String
      </AuthToken>
    </OrderRequestHeader>
    <DNSerialNumber> 50 String
  </Request>
</ws:Revoke>
</soapenv:Body>

<soapenv:Body>
<ws:Resumereneal>
  <!{}Optional:{>}
  <Request>
    <OrderRequestHeader>
      <AuthToken>
        <UserName> 30 String
        <Password> 30 String
      </AuthToken>
    </OrderRequestHeader>
    <DNSerialNumber> 50 String
  </Request>
</ws:Revoke>
</soapenv:Body>

14. Query API Calls

Note: The Query API does not screen the whitelisted IP address (as shown in Section 4.1).

14.1 Get certificate order details – Single Certificate (GetOrderByOrderID)

GetOrderByOrderID Request

<GetOrderByOrderID xmlns="https://system.globalsign.com/cr/ws/">
  <Request>
    <QueryRequestHeader>
      <AuthToken>
        <UserName> 30 String
        <Password> 30 String
      </AuthToken>
    </QueryRequestHeader>
  </Request>
</GetOrderByOrderID>
GetOrderByOrderID Response

<x:QueryRequestHeader/>
<x:OrderNo>50</x:OrderNo>
<x:OrderQueryOption>
  (<x:ReturnCertificateInfo>)? 5 String true, false
  (<x:ReturnFulfillment>)? 5 String true, false
  (<x:ReturnP7>)? 5 String true, false (This can be set when ReturnFulfillment = true)
  (<x:ReturnModEvents>)? 5 String true, false
</x:OrderQueryOption>
</x:GetOrderByOrderID>

GetOrderByOrderID Response

<x:GetOrderByOrderIdResponse xmlns="https://system.globalsign.com/cr/ws/">
  <x:Response>
    <x:QueryResponseHeader>
      <x:SuccessCode>2</x:SuccessCode>
      (<x:Errors>
        (<x:Error>
          <x:ErrorCode>5</x:ErrorCode>
          <x:ErrorMessage>1000</x:ErrorMessage>
        </x:Error>+)
        <x:Timestamp>YYYY-MM-DDTHH:MM:SS.000Z</x:Timestamp>
    </x:Errors>
    </x:QueryResponseHeader>
    <x:OrderNo>50</x:OrderNo>
    (<x:OrderDetail>
      <x:OrderNo>50</x:OrderNo>
      <x:OrderStatus>NONE, REQUESTING, REQUESTED, ISSUED, CANCELED, REISSUED, ISSUE_WAIT, ISSUE_REQUESTED, ISSUE_CANCELED, CANCEL_REQUESTED, ISSUE_ERROR, VALIDATE_ERROR, REQUESTING_P12BULK, REQUESTED_P12BULK</x:OrderStatus>
      <x:ProductCode>20</x:ProductCode>
      (<x:OriginalOrderIDForReIssue>)? 50 String
      <x:ProfileNo>50</x:ProfileNo>
      <x:LicenseNo>50</x:LicenseNo>
      <x:RequestDate>YYYY-MM-DDTHH:MM:SS.000Z</x:RequestDate>
      (<x:RequestBeforeDate>)? YYYY-MM-DDTHH:MM:SS.000Z
      (<x:RequestAfterDate>)? YYYY-MM-DDTHH:MM:SS.000Z
      <x:OrderDate>YYYY-MM-DDTHH:MM:SS.000Z</x:OrderDate>
      <x:IssueDate>YYYY-MM-DDTHH:MM:SS.000Z</x:IssueDate>
      <x:ValidityPeriod>
        <x:NotBefore>YYYY-MM-DDTHH:MM:SS.000Z</x:NotBefore>
        <x:NotAfter>YYYY-MM-DDTHH:MM:SS.000Z</x:NotAfter>
      </x:ValidityPeriod>
      (<x:RenewalStatus>ACTIVE or INACTIVE or NotApplicable</x:RenewalStatus> this is not implemented yet)
      <x:CrCertificateInfo>
        <x:CertificateStatus>NONE, ISSUED, REVOKE_VALIDATING, REVOKE_REQUESTED, REVOKE_FAIL</x:CertificateStatus>
        <x:SerialNumber>64</x:SerialNumber>
        <x:StartDate>YYYY-MM-DDTHH:MM:SS.000Z</x:StartDate>
        <x:EndDate>YYYY-MM-DDTHH:MM:SS.000Z</x:EndDate>
        <x:Email>255</x:Email>
        <x:CommonName>64</x:CommonName>
        <x:OrganizationUnits>
          <x:OrganizationUnit>
            <x:OrganizationUnitName></x:OrganizationUnitName>
          </x:OrganizationUnit>
        </x:OrganizationUnits>
      </x:CrCertificateInfo>
    </x:OrderInfo>
  </x:Response>
</x:GetOrderByOrderIdResponse>
14.2 Get Multiple Certificate Order Details – Multiple Certificates (GetOrders)

Note: This API function is used to query issued certificate information. A maximum of 1,000 orders can be queried at a time, otherwise an error will be returned.

GetOrders Request

```xml
<GetOrders xmlns="https://system.globalsign.com/cr/ws/">
  <Request>
    <QueryRequestHeader>
      <AuthToken>
        <UserName>30 String</UserName>
        <Password>30 String</Password>
      </AuthToken>
    </QueryRequestHeader>
  </Request>
</GetOrders>
```
<ProductCode>
ePkiPSPersonal, ePkiPSDept,
ePkiPSPersonalPro,
  ePkiDSPersonalHsm, ePkiDSDeptHsm,
  ePkiDSPersonal, ePkiDSSALT,
  ePkiDSAATLSP, ePkiDSDept
</ProductCode>

<ProfileOrderNo>? 50 String
<LicenseOrderNo>? 50 String
<OrderState?>
NONE, REQUESTING, REQUESTED, ISSUED,
CANCELED, REISSUED, ISSUE_WAIT,
ISSUE_REQUESTED, ISSUE_CANCELED,
CANCEL_REQUESTED, ISSUE_ERROR,
VALIDATE_ERROR, REQUESTING_P12BULK,
REQUESTED_P12BULK

<CertState?>
NONE, ISSUED, REVOKE_VALIDATING,
REVOKE, REVOKE_CA, REVOKE_REQUESTED,
REVOKE_FAIL

<RequestDateFrom>? YYYY-MM-DDTHH:MM:SS.000Z
<RequestDateTo>? YYYY-MM-DDTHH:MM:SS.000Z

<IssueDateFrom>? YYYY-MM-
<IssueDateTo>? YYYY-MM-

</OrderQueryParam>
</OrderQueryOption>
(<ReturnCertificateInfo>)? 5 String true, false
(<ReturnFulfillment>)? 5 String true, false
</OrderQueryOption>
</Request>
</GetOrders>

GetOrders Response

<GetOrdersResponse xmlns="https://system.globalsign.com/cr/ws/">
  <Response>
    <QueryResponseHeader>
      <SuccessCode> 2
      (<Errors>
        (<Error>
          <ErrorCode> 5
          <ErrorMessage> 1000 String
        </Error>)
      </Errors>)
      <Timestamp> 25 YYYY-MM-DDTHH:MM:SS.000Z
    </QueryResponseHeader>
    <TotalCount> 5
    <OrderDetails>
      (<OrderDetail>
        <OrderNo> 50 String
        <OrderStatus>
          NONE, REQUESTING, REQUESTED, ISSUED,
          CANCELED, REISSUED, ISSUE_WAIT,
          ISSUE_REQUESTED, ISSUE_CANCELED,
          CANCEL_REQUESTED, ISSUE_ERROR,
          VALIDATE_ERROR, REQUESTING_P12BULK,
          REQUESTED_P12BULK
        </OrderStatus>
        <ProductCode> 20 String
        (<OriginalOrderIDForReIssue>)? 20 String
        <ProfileNo> 64 String
        <LicenseNo> 64 String
        <RequestDate> YYYY-MM-DDTHH:MM:SS.000Z
      </OrderDetail>)
    </OrderDetails>
  </Response>
</GetOrdersResponse>
14.3 Get Profiles Information (GetProfiles)

GetProfiles Request

```xml
<ws:GetProfiles>
  <Request>
    <QueryRequestHeader>
      <AuthToken>
        <UserName> 30 String
        <Password> 30 String
      </AuthToken>
    </QueryRequestHeader>
    <ProfileQueryParam>
      (<ProfileOrderNo>)? 50 String
      (<ProfileOrderState>)?
      SUSPEND,
      CANCEL_REQUESTED,
      REQUESTING, REQUESTED,
      REQUESTING_EXTEND, REQUESTED_EXTEND,
      VALIDATING_EXTEND, VALIDATING_ERROR,
      CANCEL_ERROR
    </ProfileQueryParam>
    (<RequestDateFrom>)? YYYY-MM-DDTHH:MM:SS.000Z
  </Request>
</ws:GetProfiles>
```
GetProfiles Response

<ns2:GetProfilesResponse xmlns:ns2="https://system.globalsign.com/cr/ws/">
  <Response>
    <QueryResponseHeader>
      <SuccessCode>2</SuccessCode>
      <Errors/>
      <Timestamp>YYYY-MM-DDTHH:MM:SS.000Z</Timestamp>
    </QueryResponseHeader>
    <TotalCount>ProfileDetails>
      <ProfileDetail>
        <ProfileInfo>
          <ProfileOrderNo>50</ProfileOrderNo>
          <ProfileOrderState>REQUESTING, REQUESTED,
SUSPEND,
VALIDATING,
CANCEL_REQUESTED,
REQUESTING_EXTEND, REQUESTED_EXTEND,
VALIDATING_EXTEND, VALIDATING_ERROR,
CANCEL_ERROR</ProfileOrderState>
          <RequestDate>YYYY-MM-DDTHH:MM:SS.000Z</RequestDate>
          <RequestBeforeDate>YYYY-MM-DDTHH:MM:SS.000Z</RequestBeforeDate>
          <RequestAfterDate>YYYY-MM-DDTHH:MM:SS.000Z</RequestAfterDate>
          <IssueDate>YYYY-MM-DDTHH:MM:SS.000Z</IssueDate>
          <ValidityPeriod>
            <NotBefore>YYYY-MM-DDTHH:MM:SS.000Z</NotBefore>
            <NotAfter>YYYY-MM-DDTHH:MM:SS.000Z</NotAfter>
          </ValidityPeriod>
        </ProfileInfo>
        <ProfileDnAttributes>
          <CommonName>64</CommonName>
          <Organization>64</Organization>
          <OrganizationUnits>
            <OrganizationUnit>64</OrganizationUnit>
          </OrganizationUnits>
        </ProfileDnAttributes>
        <ProfileAttributes>
          <HashType>sha1/sha256/RSASSA-PSS(SHA256)</HashType>
          <EFSOption>On/Off</EFSOption>
          <UPN>On/Off</UPN>
          <RenewalType>On/Off/Quick</RenewalType>
          <NonExportable>On/Off</NonExportable>
          <NonRepudiation>On/Off</NonRepudiation>
        </ProfileAttributes>
      </ProfileDetail>
    </ProfileDetails>
  </Response>
</ns2:GetProfilesResponse>
GetProfiles Error Response

15. Certificate Order Entry Parameters

15.1 Product codes

The product code is a necessary item in most of the API calls above. The code you enter should match the type of certificate being ordered. The following is the complete list of Product Codes.

<table>
<thead>
<tr>
<th>No.</th>
<th>Code</th>
<th>Certificate Type</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>EPKI-PSDept</td>
<td>Enterprise PKI Lite For PersonalSign Department</td>
<td>Used in OrderAndIssueCertificate, OrderPkcs12 and OrderCertificate</td>
</tr>
<tr>
<td>2</td>
<td>EPKI-PSPersonal</td>
<td>Enterprise PKI Lite For PersonalSign</td>
<td>Used in OrderAndIssueCertificate, OrderPkcs12 and OrderCertificate</td>
</tr>
<tr>
<td>3</td>
<td>ePkIDSAATL</td>
<td>ePKI AATL</td>
<td>Used in OrderDS</td>
</tr>
<tr>
<td>4</td>
<td>ePkIDSAATLASP</td>
<td>ePKI AATL ASP</td>
<td>Used in OrderDS</td>
</tr>
</tbody>
</table>

15.2 Validity Period

You can control the validity period of ordered certificates by setting the number of years. (Note: you need to have purchased the appropriate license pack via your GCC account/web interface).

<table>
<thead>
<tr>
<th>Number of Years</th>
<th>Certificate Validity Period (days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>366</td>
</tr>
<tr>
<td>2</td>
<td>731</td>
</tr>
<tr>
<td>3</td>
<td>1096</td>
</tr>
</tbody>
</table>
15.3 Password Requirements

Below are the password requirements. The Pickup Password (PickupPassword Element) will be used by the end user in order to securely pick up and install the certificate. Certificate Password (PKCS12PIN Element) is used for PKCS#12 file protection.

<table>
<thead>
<tr>
<th>Password Type</th>
<th>Min Length / Max Length</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pickup Password (used to protect access for initial enrollment)</td>
<td>8 / 256</td>
<td>Alphanumeric</td>
</tr>
<tr>
<td>Certificate Password (used to protect private key)</td>
<td>12 / 117</td>
<td>Alphanumeric + symbols</td>
</tr>
</tbody>
</table>

Notes: symbols reserved characters are included, but they are encoded

Example
- &lt;
- &gt;
- &amp;
- ’ &apos;
- " &quot;

15.4 DN and UPN Requirement

Below are the Distinguished Name, User Principal Name and SecurityIdentifier requirements.

<table>
<thead>
<tr>
<th>Type (Element)</th>
<th>Max Length</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Name (&lt;CommonName&gt;)</td>
<td>64</td>
<td>space and ASCII characters except &quot;$\langle\rangle&quot;</td>
</tr>
<tr>
<td>Organization Unit (&lt;OrganizationUnit&gt;)</td>
<td>64</td>
<td>space and ASCII characters except &quot;$\langle\rangle&quot;</td>
</tr>
<tr>
<td>Email (&lt;Email&gt;)</td>
<td>255</td>
<td>RFC822Name</td>
</tr>
<tr>
<td>User Principal Name (&lt;UPN&gt;)</td>
<td>255</td>
<td>RFC822Name</td>
</tr>
<tr>
<td>Security Identifier (&lt;SID&gt;)</td>
<td>128</td>
<td>Alphanumeric,- (hyphen)</td>
</tr>
</tbody>
</table>

16. Acceptable DateTime for Query

DateTime options for Query Requests (GetOrders and GetProfiles) are listed below.

<table>
<thead>
<tr>
<th>Setting Value in Request</th>
<th>From</th>
<th>To</th>
<th>TimeZone Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>YYYY-MM-DD</td>
<td>YYYY-MM-DDT00:00:00.000</td>
<td>YYYY-MM-DDT23.59.59.999</td>
<td>GCC UI Configuration</td>
</tr>
<tr>
<td>YYYY-MM-DDTHH:MM:SS.000</td>
<td>YYYY-MM-DDTHH:MM:SS.000</td>
<td>YYYY-MM-DDTHH:MM:SS.000</td>
<td>GCC UI Configuration</td>
</tr>
<tr>
<td>YYYY-MM-DDZ</td>
<td>YYYY-MM-DDT00:00:00.000</td>
<td>YYYY-MM-DDT23:59:59.999</td>
<td>Z</td>
</tr>
</tbody>
</table>
If TimeZone is not specified, it is automatically set according to the time zone setting listed in your GCC account.

Example:

```xml
<IssueDateFrom>2017-11-17</IssueDateFrom> and TimeZone is set as GMT+08:00 is same as
<IssueDateFrom> 2017-11-17T00:00:00.000+08:00</IssueDateFrom>

<IssueDateTo>2017-11-17-05:00</IssueDateTo> and TimeZone is set as GMT+08:00 is same as
<IssueDateTo> 2017-11-17T23:59:59.999-05:00</IssueDateTo>

17. XML Field definitions

This table lists all of the data types used in the API specification in alphabetical order.

<table>
<thead>
<tr>
<th>DataType</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>fixed-length character string</td>
</tr>
<tr>
<td>Boolean</td>
<td>logical Boolean (true/false) : Default value is false.</td>
</tr>
<tr>
<td>Int</td>
<td>signed four-byte integer</td>
</tr>
<tr>
<td>DateTime</td>
<td>YYYY-MM-DDTHH:MM:SS.000Z</td>
</tr>
</tbody>
</table>

Please refer Chapter 14.

<table>
<thead>
<tr>
<th>XML Structure</th>
<th>Description</th>
<th>DataType/Max length</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;BASE64PKCS12&gt;</td>
<td>A base64-encoded PKCS#12</td>
<td>String/-</td>
</tr>
<tr>
<td>&lt;CERT&gt;</td>
<td>A base64-encoded Certificate File</td>
<td>String/-</td>
</tr>
<tr>
<td>XML Structure</td>
<td>Description</td>
<td>DataType/ Max length</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>CertificateStatus</td>
<td>The current status of certificate</td>
<td></td>
</tr>
<tr>
<td>CertState</td>
<td>The certificate status for query.</td>
<td></td>
</tr>
<tr>
<td>CommonName</td>
<td>The common name in the certificate.</td>
<td>String/64</td>
</tr>
<tr>
<td>ContractorUserID</td>
<td>UserID who created Profile(s)</td>
<td>String/-</td>
</tr>
<tr>
<td>CertificateInfo</td>
<td>This structure contains information stored related to the certificate in various Query operations.</td>
<td></td>
</tr>
<tr>
<td>CSR</td>
<td>Certificate Signing Request. This is the Base64 encoded X.509 digital certificate signing request typically generated by the end user.</td>
<td>String/4000</td>
</tr>
<tr>
<td>DnAttributes</td>
<td>A structure that contains the information to be included in the certificate subject DN.</td>
<td></td>
</tr>
<tr>
<td>EFSOption</td>
<td>If this this option is enabled, then the certificate will have EFS extension in the certificate extended key usage. Note, that the true/false values are case-sensitive.</td>
<td>Boolean</td>
</tr>
<tr>
<td>Email</td>
<td>The email address in the certificate, DN:E.</td>
<td>String/128</td>
</tr>
<tr>
<td>SubscriberEmailAddress</td>
<td>If you do not use Email, please describe it here</td>
<td>String/128</td>
</tr>
<tr>
<td>SANRFC822EmailAddress</td>
<td>The email address in the certificate SAN RFC822.</td>
<td>String/128</td>
</tr>
<tr>
<td>EndDate</td>
<td>Expiry date of the certificate</td>
<td>DateTime</td>
</tr>
<tr>
<td>Error</td>
<td>A structure that contains an ErrorCode and an ErrorMessage. Error is part of the Errors structure.</td>
<td></td>
</tr>
<tr>
<td>ErrorCode</td>
<td>A unique code identifying the error.</td>
<td>Int</td>
</tr>
<tr>
<td>ErrorField</td>
<td>When there is a specific field that has caused the error, the XML tag for that field is placed in this structure. Where the tag is not unique in the entire message, one or more tags precede this so this field can be uniquely identified. For example, if the Email field was invalid in the DnAttributes structure, the return code would have DnAttributes&lt;Email&gt;.</td>
<td>String/1000</td>
</tr>
<tr>
<td>ErrorMessage</td>
<td>A message describing an error in more detail. ErrorMessage is a part of the Error Structure</td>
<td>String/1000</td>
</tr>
<tr>
<td>Fulfillment</td>
<td>Contains the ePKI certificate(s) (in x509 and/or PKCS7 formats)</td>
<td></td>
</tr>
<tr>
<td>HashType</td>
<td>Certificate Signing Signature type used for Certificate SHA1 is SHA1withRSA, and SHA256 is SHA256withRSA, and RSASSA-PSS(SHA256)</td>
<td>SHA1,SHA256,RSASSA-PSS(SHA256)</td>
</tr>
<tr>
<td>IssueDate</td>
<td>Certificate issued date</td>
<td>DateTime</td>
</tr>
<tr>
<td>XML Structure</td>
<td>Description</td>
<td>DataType/Max length</td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td><code>&lt;IssueType&gt;</code></td>
<td>Parameter REGISTER will allow user enrollment of the resulting certificate. Parameter ISSUE will directly return the certificate in the API response. For ISSUE either a CSR is mandatory or the resulting certificate will be delivered in PKCS#12 format.</td>
<td>String ISSUE/REGISTER</td>
</tr>
<tr>
<td><code>&lt;HasCSR&gt;</code></td>
<td>Set as true if you have externally generated CSR.</td>
<td>Boolean</td>
</tr>
<tr>
<td><code>&lt;LicenseNo&gt;</code></td>
<td>The License ID you have ordered.</td>
<td>String/50</td>
</tr>
<tr>
<td><code>&lt;LicenseOrderNo&gt;</code></td>
<td>The License ID you would like to query.</td>
<td>String/50</td>
</tr>
<tr>
<td><code>&lt;Locality&gt;</code></td>
<td>The Locality field from the CSR or Certificate.</td>
<td>String/64</td>
</tr>
<tr>
<td><code>&lt;ModificationEvents&gt;</code></td>
<td>The set of events for the order that caused the status to be changed within the specified time period.</td>
<td>String/64</td>
</tr>
<tr>
<td><code>&lt;ModificationEventName&gt;</code></td>
<td>The name of the event</td>
<td>String/50</td>
</tr>
<tr>
<td><code>&lt;ModificationEventTimeStamp&gt;</code></td>
<td>The time of the event</td>
<td>DateTime</td>
</tr>
<tr>
<td><code>&lt;NonExportable&gt;</code></td>
<td>Status if Non Exportable Option is enable or not.</td>
<td>Boolean</td>
</tr>
<tr>
<td><code>&lt;NonRepudation&gt;</code></td>
<td>Currently always Off is returned</td>
<td>On/Off</td>
</tr>
<tr>
<td><code>&lt;OCSPOption&gt;</code></td>
<td>Status if OCSP Option is enable or not.</td>
<td>Boolean</td>
</tr>
<tr>
<td><code>&lt;NotAfter&gt;</code></td>
<td>The date on which the certificate validity period ends.</td>
<td>DateTime</td>
</tr>
<tr>
<td><code>&lt;NotBefore&gt;</code></td>
<td>The date on which the certificate validity period begins.</td>
<td>DateTime</td>
</tr>
<tr>
<td><code>&lt;OrderDate&gt;</code></td>
<td>The date the order was created.</td>
<td>DateTime</td>
</tr>
<tr>
<td><code>&lt;OrderID&gt;</code></td>
<td>This is the OrderID assigned by GlobalSign to the order and provided to the person requesting the certificate.</td>
<td>String/50</td>
</tr>
<tr>
<td><code>&lt;OrderNo&gt;</code></td>
<td>Same as OrderID</td>
<td>String/50</td>
</tr>
<tr>
<td><code>&lt;OrderInfo&gt;</code></td>
<td>This structure contains basic information that apply to most orders and is profiled within each order response structure.</td>
<td>String</td>
</tr>
<tr>
<td><code>&lt;OrderStatus&gt;</code></td>
<td>The current status of an order</td>
<td>String</td>
</tr>
<tr>
<td><code>&lt;OrderState&gt;</code></td>
<td>The current status of an order which you want to query</td>
<td>String</td>
</tr>
<tr>
<td><code>&lt;Organization&gt;</code></td>
<td>The Organization field from the certificate.</td>
<td>String/64</td>
</tr>
<tr>
<td><code>&lt;OrganizationUnit&gt;</code></td>
<td>The OrganizationalUnit in the certificate.</td>
<td>String/64</td>
</tr>
<tr>
<td><code>&lt;OriginalOrderIDForReIssue&gt;</code></td>
<td>Original Order ID which has been reissued.</td>
<td>String</td>
</tr>
<tr>
<td><code>&lt;Password&gt;</code></td>
<td>Required for user authentication over the API.</td>
<td>String/30</td>
</tr>
<tr>
<td><code>&lt;PKCS12&gt;</code></td>
<td>A BASE64 encoded PKCS#12 (without return code)</td>
<td>String</td>
</tr>
<tr>
<td><code>&lt;PKCS7Cert&gt;</code></td>
<td>A BASE64 encoded PKCS#7</td>
<td>String</td>
</tr>
<tr>
<td><code>&lt;PKCS12Option&gt;</code></td>
<td>Set as true if you want to receive PKCS12 file.</td>
<td>Boolean</td>
</tr>
<tr>
<td><code>&lt;PKCS12PIN&gt;</code></td>
<td>The password for PKCS12 file that the end user will need to enter when importing the P12 certificate.</td>
<td>String/117</td>
</tr>
<tr>
<td>XML Structure</td>
<td>Description</td>
<td>DataType/Max length</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>------------------------------------------------</td>
</tr>
<tr>
<td>&lt;PickupPassword&gt;</td>
<td>This password is used to protect access for initial enrollment.</td>
<td>String/30</td>
</tr>
<tr>
<td>&lt;ProductCode&gt;</td>
<td>A code for the product that a particular request relates to. Note that a partner must have a valid contract for a product code for it to be valid in a request. Also, a product code must be valid for the context of the request.</td>
<td>String/50 EPKI PSpersonal EPKI PSDept ePkiDSAATL ePkiDSAATLASP</td>
</tr>
<tr>
<td>&lt;ProfileAttributes&gt;</td>
<td>Attribute Information which set in the Profile</td>
<td></td>
</tr>
<tr>
<td>&lt;ProfileDNAttributes&gt;</td>
<td>DNAtribute Information which set in the Profile</td>
<td></td>
</tr>
<tr>
<td>&lt;ProfileID&gt;</td>
<td>EPKI profile ID. Can be found in the GCC.</td>
<td>String/50</td>
</tr>
<tr>
<td>&lt;ProfileOrderNo&gt;</td>
<td>Same as ProfileID above.</td>
<td>String/50</td>
</tr>
<tr>
<td>&lt;ProfileOrderState&gt;</td>
<td>Status of the Profile you would like to query.</td>
<td></td>
</tr>
<tr>
<td>&lt;Renew&gt;</td>
<td>If this is true, added 30 days bonus.</td>
<td>Boolean</td>
</tr>
<tr>
<td>&lt;RenewalType&gt;</td>
<td>Renewal type which is set in Profile</td>
<td>On / Off / Quick</td>
</tr>
<tr>
<td>&lt;RequestAfterDate&gt;</td>
<td>N/A (Not Used and always return as nil)</td>
<td>DateTime</td>
</tr>
<tr>
<td>&lt;RequestBeforeDate&gt;</td>
<td>N/A (Not Used and always return as nil)</td>
<td>DateTime</td>
</tr>
<tr>
<td>&lt;RequestDate&gt;</td>
<td>Request Date for this query</td>
<td>DateTime</td>
</tr>
<tr>
<td>&lt;RequestDateFrom&gt;</td>
<td>Search Start Date</td>
<td>DateTime</td>
</tr>
<tr>
<td>&lt;RequestDateTo&gt;</td>
<td>Search End Date</td>
<td>DateTime</td>
</tr>
<tr>
<td>&lt;ReturnCertificateInfo&gt;</td>
<td>If sent to true in the request message, the CertificateInfo structure appears in the response message.</td>
<td></td>
</tr>
<tr>
<td>&lt;ReturnCount&gt;</td>
<td>The number of items returned in the message</td>
<td>Int</td>
</tr>
<tr>
<td>&lt;ReturnFulfillment&gt;</td>
<td>If set to true in the request message, the Fulfillment structure appears in the response message.</td>
<td></td>
</tr>
<tr>
<td>&lt;ReturnP7&gt;</td>
<td>Set if you want to receive PKCS7 file.</td>
<td>Boolean</td>
</tr>
<tr>
<td>&lt;ReturnModEvents&gt;</td>
<td>Indicate “When” “What” Order Modification happened.</td>
<td></td>
</tr>
<tr>
<td>&lt;SerialNumber&gt;</td>
<td>The serial number of a certificate specified as a hex string.</td>
<td></td>
</tr>
<tr>
<td>&lt;StartDate&gt;</td>
<td>Start effective date of certificate.</td>
<td>DateTime</td>
</tr>
<tr>
<td>&lt;State&gt;</td>
<td>The value of the State in the Certificate.</td>
<td></td>
</tr>
<tr>
<td>&lt;StateOrProvince&gt;</td>
<td>The State or Province in the certificate</td>
<td>String/64</td>
</tr>
<tr>
<td>&lt;SuccessCode&gt;</td>
<td>Code in the Order and Query Response Headers which indicates the success of failure of the request. A zero SuccessCode indicates a success with no warnings. A positive SuccessCode indicates a success with warnings. A negative SuccessCode indicates a failure. Note that if the Success in non-zero an accompanying Errors structure will be present.</td>
<td>Int/1</td>
</tr>
<tr>
<td>&lt;UPN&gt;</td>
<td>Certificate for MS smartcard login. detailed information can be found</td>
<td>String/64</td>
</tr>
</tbody>
</table>
18. Status Explanations

A SuccessCode is always returned from the API. If the SuccessCode is 0 or 1, the order will normally be able to continue. A SuccessCode of -1 will be a terminating point and will be combined in the reply with one or more ErrorCodes. ErrorCodes provide more information on the Error created with the API call.

18.1 Success Codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Code Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Success</td>
</tr>
<tr>
<td>-1</td>
<td>Failure</td>
</tr>
<tr>
<td>1</td>
<td>Warning</td>
</tr>
</tbody>
</table>

18.2 Error Codes

<table>
<thead>
<tr>
<th>Success Code</th>
<th>Error Code</th>
<th>Error Summary</th>
<th>System Error Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>-1</td>
<td>-1</td>
<td>Failure (unknown reasons)</td>
<td>Please Report this error to your GlobalSign Representative.</td>
</tr>
<tr>
<td>-1</td>
<td>-101</td>
<td>Invalid parameter</td>
<td>Invalid parameter entered. Please check that the parameters match the API specification. Please review the specific ErrorMessage returned in the XML response for parameter details and consult the XML Field definitions section of the applicable API document.</td>
</tr>
<tr>
<td>-1</td>
<td>-102</td>
<td>Mandatory parameter missing</td>
<td>Mandatory parameter missing. Please check that the parameters match the API specification. Please review the specific ErrorMessage returned in the XML response for parameter details and consult the XML</td>
</tr>
<tr>
<td>Success Code</td>
<td>Error Code</td>
<td>Error Summary</td>
<td>System Error Message</td>
</tr>
<tr>
<td>--------------</td>
<td>------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>-1</td>
<td>-103</td>
<td>Parameter length check error</td>
<td>Parameter length check error. Please check that the parameters match the API specification. Please review the specific ErrorMessage returned in the XML response for parameter details and consult the XML Field definitions section of the applicable API document.</td>
</tr>
<tr>
<td>-1</td>
<td>-104</td>
<td>Parameter format check error</td>
<td>Parameter format check error. Please check that the parameters match the API specification. Please review the specific ErrorMessage returned in the XML response for parameter details and consult the XML Field definitions section of the applicable API document.</td>
</tr>
<tr>
<td>-1</td>
<td>-105</td>
<td>Invalid parameter combination</td>
<td>Invalid parameter combination. Please that check the parameters match the API specification.</td>
</tr>
<tr>
<td>-1</td>
<td>-201</td>
<td>Failed database operation</td>
<td>System Error. (Database error - database operation). Please retry and if the issue persists contact support with detailed information concerning the issue.</td>
</tr>
<tr>
<td>-1</td>
<td>-4001</td>
<td>Login failure / invalid user ID</td>
<td>Login failure. UserName or Password is incorrect. Please make sure that you have specified the correct UserName and Password.</td>
</tr>
<tr>
<td>-1</td>
<td>-4007</td>
<td>Invalid CSR</td>
<td>An error occurred when processing this request because of the CSR specified. Possible error reasons are; the algorithm of the CSR is not RSA, the Key Length of the CSR is less than 2048, the RSA key in the CSR is weak or the Private Key of the CSR has been used previously. Please make sure that the CSR is correctly entered.</td>
</tr>
<tr>
<td>-1</td>
<td>-6015</td>
<td>The CSR contains a key size that is not supported.</td>
<td>If you see this error, the key size is not supported. Please change the key size and try again.</td>
</tr>
<tr>
<td>-1</td>
<td>-6016</td>
<td>Please use CSR that have public exponent inside the range 2^16 + 1 and 2^256 - 1</td>
<td>Please use CSR that have public exponent inside the range 2^16 + 1 and 2^256 - 1</td>
</tr>
<tr>
<td>-1</td>
<td>-6037</td>
<td>The primes in your RSA key are too close which is a security vulnerability.</td>
<td>The primes in your RSA key are too close which is a security vulnerability. Please create a new CSR</td>
</tr>
<tr>
<td>-1</td>
<td>-9301</td>
<td>Not found ProfileID</td>
<td>An error occurred when processing this request because of the ProfileID or ProfileOrderNo specified. You are not owner of the specified ProfileID/ProfileOrderNo or it is not existing. Please make sure that it is correctly entered.</td>
</tr>
<tr>
<td>-1</td>
<td>-9302</td>
<td>Not found License</td>
<td>An error occurred when processing this request. It could be that your account does not have a usable License that matches with your specified ProductCode and Year. Please make sure that the ProductCode or Year is correctly entered.</td>
</tr>
<tr>
<td>Success Code</td>
<td>Error Code</td>
<td>Error Summary</td>
<td>System Error Message</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>-1</td>
<td>-9303</td>
<td>The licenses are not usable. Licenses are not issued, or are lacking quantity</td>
<td>There are no usable licenses for the ProfileOrderNo provided. Please make sure that the ProfileOrderNo is correctly entered.</td>
</tr>
<tr>
<td>-1</td>
<td>-9304</td>
<td>Certificate was not able to be issued</td>
<td>A failure occurred when issuing the certificate for this request. Please try again and if the failure persists, please contact GlobalSign Support.</td>
</tr>
<tr>
<td>-1</td>
<td>-9305</td>
<td>This Product is out of service for PKCS12</td>
<td>The ProductCode specified is not allowed for PKCS12. Please make sure that your ProductCode is correctly entered.</td>
</tr>
<tr>
<td>-1</td>
<td>-9306</td>
<td>The profile are not usable.</td>
<td>The specified ProfileID is not usable for ordering or the ProfileID is already expired. Please make sure that the ProfileID is correctly entered.</td>
</tr>
<tr>
<td>-1</td>
<td>-9307</td>
<td>Invalid Parameter</td>
<td>Unable to process this request because both PCK12 and CSR option are specified at the same time. Please specify either PKCS12 or CSR Option only.</td>
</tr>
<tr>
<td>-1</td>
<td>-9309</td>
<td>Inconsistency Request with Original Certificate Order.</td>
<td>The request has inconsistent with original order. Please make sure whether the original order issued as PKCS12 or not.</td>
</tr>
<tr>
<td>-1</td>
<td>-9318</td>
<td>When FORTIFY is selected in Reissue/ReissueCertificate EPKI (PS)</td>
<td>The request has inconsistent with original order. Please make sure whether the original order issued as FORTIFY or not.</td>
</tr>
<tr>
<td>-1</td>
<td>-9319</td>
<td>This request cannot use reissue registration.</td>
<td>This reissue registration cannot be proceeded due to Product Code for original order. Please choose online reissue option.</td>
</tr>
<tr>
<td>-1</td>
<td>-9399</td>
<td>Access Denied</td>
<td>Access to the requested enterprise service is not allowed. Please check your permissions and try again.</td>
</tr>
<tr>
<td>-1</td>
<td>-9611</td>
<td>Error extension need one EKU</td>
<td>At least one EKU is required.</td>
</tr>
<tr>
<td>-1</td>
<td>-9612</td>
<td>Error extension need one KU</td>
<td>At least one KU is required.</td>
</tr>
<tr>
<td>-1</td>
<td>-9900</td>
<td>IP Address Out of Range</td>
<td>Unable to process this request. It is possible that the IP Address you are using is not within the range of IP Addresses allowed to use this API or allowed to use the profile specified. Please recheck your profile.</td>
</tr>
<tr>
<td>-1</td>
<td>-9901</td>
<td>Product Not found</td>
<td>The Product Group of this user does not allow ordering of the specified ProductCode. Please contact GlobalSign Support if you wish to order using this ProductCode.</td>
</tr>
<tr>
<td>-1</td>
<td>-9902</td>
<td>Cannot Access Certificate Order</td>
<td>Unable to process this request. It could be that the order you are trying to modify has been previously modified or you do not have permission to modify the certificate. Please make sure that the OrderID is correctly entered.</td>
</tr>
<tr>
<td>-1</td>
<td>-9911</td>
<td>Credit line is over extended</td>
<td>There is insufficient credit in the account to complete the order process. Please verify that the account has sufficient funds and try again.</td>
</tr>
<tr>
<td>-1</td>
<td>-9912</td>
<td>Deposit line is over extended</td>
<td>There is insufficient deposit balance within the account to complete the order process. Please verify that the account has sufficient funds and try again.</td>
</tr>
<tr>
<td>-1</td>
<td>-9915</td>
<td>Already canceled</td>
<td>The order specified has already been canceled.</td>
</tr>
<tr>
<td>-1</td>
<td>-9916</td>
<td>Certificate Order not found</td>
<td>The order specified cannot be found in the system.</td>
</tr>
<tr>
<td>Success Code</td>
<td>Error Code</td>
<td>Error Summary</td>
<td>System Error Message</td>
</tr>
<tr>
<td>--------------</td>
<td>------------</td>
<td>---------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>-1</td>
<td>-9307</td>
<td>Invalid Parameter</td>
<td>Unable to process this request because both PCKS12 and CSR option are specified at the same time. Please specify either PKCS12 or CSR Option only.</td>
</tr>
<tr>
<td>-1</td>
<td>-9399</td>
<td>Access Denied</td>
<td>Access to the requested enterprise service is not allowed. Please check your permissions and try again.</td>
</tr>
<tr>
<td>-1</td>
<td>-9936</td>
<td>The key you used in your CSR is either too short (RSA minimum 2048, ECC minimum 256) or the key failed the Debian weak key check. Please generate a new keypair and try again.</td>
<td>If you receive this error, please increase the key size and try again.</td>
</tr>
<tr>
<td>-1</td>
<td>-9952</td>
<td>Expected result over limit</td>
<td>The number of results to your search exceeded the limit. Please narrow down your search by adding more specific conditions.</td>
</tr>
<tr>
<td>-1</td>
<td>-9969</td>
<td>already done</td>
<td>Cannot be changed because it has already been implemented.</td>
</tr>
<tr>
<td>-1</td>
<td>99**(planning)</td>
<td>This request cannot use reissue registration.</td>
<td>This reissue registration is not possible because it does not meet the current requirements.</td>
</tr>
<tr>
<td>-1</td>
<td>-10001</td>
<td>Account territory not set</td>
<td>[No ErrorMessage Included] (The account's territory setting is missing or invalid. Please contact GlobalSign support. The language code is invalid.)</td>
</tr>
<tr>
<td>-1</td>
<td>-10002</td>
<td>Un-parsable language Code</td>
<td>Un-parsable language Code (The language code is invalid. Please refer to the list of supported mail template language codes.)</td>
</tr>
<tr>
<td>-1</td>
<td>-10003</td>
<td>Mail template does not exist</td>
<td>Mail template does not exist (No mail template exists for the specified language code. Please create a mail template for the language using GCC.)</td>
</tr>
<tr>
<td>-1</td>
<td>-11001</td>
<td>Invalid Email domain.</td>
<td>Invalid Email domain. This Email domain is not registered or approved yet. (The specified email address domain is not approved for use by this profile. Please submit the domain for approval using GCC.)</td>
</tr>
</tbody>
</table>