

# InCommon Cert Types

## InCommon Certificate Service SSO and MFA Available

The use of single sign-on and multifactor authentication for accessing the Comodo Certificate Manager is available to any subscriber that also operates an Identity Provider in the InCommon Federation. [See this wiki page](#) for details.

## InCommon Certificate Types

This page includes links to technical documents and service endpoints for each of the certificate types issued by the InCommon Certificate Service.

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## SSL/TLS Certificates

### SHA-2 Server Certificates

The intermediate CA known as the InCommon RSA Server CA, which uses the SHA-2 hash algorithm, was deployed on September 22, 2014.

- *Certificate Chain (Comodo's version of the chain):*
  - [USERTrust Secure \[DER\]](#)
  - [InCommon RSA Server CA \[DER\]](#)
  - [End-Entity Certificate](#)
- *Certificate Revocation List:* <http://crl.incommon-rsa.org/InCommonRSAServerCA.crl>
- *Online Certificate Status Protocol:* <http://ocsp.incommon.org>

## Organizational Validation SSL/TLS Certificates

The intermediate CA known as the *InCommon Server CA* was deployed on February 1, 2011. Prior to that date, Organizational Validation (OV) SSL/TLS end-entity certificates were signed by the [COMODO High Assurance Secure Server CA](#).

- *Certificate Chain:*
  - [AddTrust External CA Root \[Text\] \[PEM\]](#)
  - [InCommon Server CA \[Text\] \[PEM\]](#)
  - [End-Entity Certificate](#)
- [Intermediate CA Bundle for OV SSL/TLS Certificates](#)
- [Certification Practices Statement for OV SSL/TLS Certificates](#)
- [Certificate Profile for OV SSL/TLS Certificates](#)
- *Certificate Revocation List:* <http://crl.incommon.org/InCommonServerCA.crl>
- *Online Certificate Status Protocol:* <http://ocsp.incommon.org>

To test the freshness of the CRL, type the following command:

```
$ curl -s http://crl.incommon.org/InCommonServerCA.crl | openssl crl -inform DER -noout -lastupdate -nextupdate
```

## Extended Validation SSL/TLS Certificates

Extended Validation (EV) SSL/TLS Certificates became available on March 10, 2011.

- **Certificate Chain:**
  - [AddTrust External CA Root \[Text\] \[PEM\]](#)
  - [COMODO Certification Authority \[Text\] \[PEM\]](#)
  - [COMODO Extended Validation Secure Server CA \[Text\] \[PEM\]](#)
  - End-Entity Certificate
- [Intermediate CA Bundle](#) for EV SSL/TLS Certificates
- [Certification Practices Statement](#) for EV SSL/TLS Certificates
- [Certificate Profile](#) for EV SSL/TLS Certificates
- [Certificate Revocation List](#): <http://crl.comodoca.com/COMODOExtendedValidationSecureServerCA.crl>
- [Online Certificate Status Protocol](#): <http://ocsp.comodoca.com>

## IGTF Server Certificates

The intermediate CA known as the InCommon IGTF Server CA was deployed on July 7, 2014.

- **Certificate Chain:**
  - [AddTrust External CA Root](#)
  - [COMODO RSA Certification Authority \[DER\]](#)
  - [InCommon IGTF Server CA \[DER\]](#)
  - End-Entity Certificate
- [Certificate Revocation List](#): <http://crl.incommon-igtf.org/InCommonIGTFServerCA.crl>
- [Online Certificate Status Protocol](#): <http://ocsp.incommon-igtf.org>
- [Repository](#): <https://www.incommon.org/certificates/igtf/>

## Client Certificates

### SHA-2 Standard Assurance Client Certificates

The intermediate CA known as the InCommon RSA Standard Assurance Client CA was deployed on September 18, 2014.

- **Certificate Chain:**

[AddTrust External CA Root \[Text\] \[PEM\]](#)  
[USERTrust RSA Certification Authority \[Text\] \[PEM\]](#)  
[InCommon RSA Standard Assurance Client CA \[Text\] \[PEM\]](#)  
End-Entity Certificate

- [Intermediate CA Bundle](#) for Standard Client Certificates
- [Certification Practices Statement](#) for Standard Client Certificates
- [Certificate Revocation List](#):  
<http://crl.incommon-rsa.org/InCommonRSASStandardAssuranceClientCA.crl>
- [Online Certificate Status Protocol](#):  
<http://ocsp.incommon-rsa.org>

### SHA-1 Standard Assurance Client Certificates (*deprecated*)

The intermediate CA known as the *InCommon Standard Assurance Client CA* was deployed on March 10, 2011.

- **Certificate Chain:**
  - [AddTrust External CA Root \[Text\] \[PEM\]](#)
  - [UTN-USERFirst-Client Authentication and Email \[Text\] \[PEM\]](#)
  - [InCommon Standard Assurance Client CA \[Text\] \[PEM\]](#)
  - End-Entity Certificate
- [Intermediate CA Bundle](#) for Standard Client Certificates
- [Certification Practices Statement](#) for Standard Client Certificates

- Certificate Profile for Standard Client Certificates
- *Certificate Revocation List*:<http://crl.incommon.org/InCommonStandardAssuranceClientCA.crl>
- *Online Certificate Status Protocol*:<http://ocsp.incommon.org>

## Code-signing Certificates

The intermediate CA known as the *InCommon RSA Code Signing CA* (SHA-2) was deployed on September 19, 2014.

- *Certificate Chain*
  - Please click here to see the cert chain: <https://support.comodo.com/index.php?/Default/Knowledgebase/Article/View/992/108/incommon-code-signing-sha-2>

The intermediate CA known as the *InCommon Code Signing CA* (SHA-1) was deployed on June 30, 2011.

- *Certificate Chain*:
  - AddTrust External CA Root [Text] [PEM]
  - UTN-USERFirst-Object [Text] [PEM]
  - InCommon Code Signing CA [Text] [PEM]
  - End-Entity Certificate

The following information is common to both the SHA-1 and SHA-2 InCommon intermediate CAs:

- [Certification Practices Statement](#) for Code-Signing Certificates
- *Certificate Revocation List*:<http://crl.incommon.org/InCommonCodeSigningCA.crl>
- *Online Certificate Status Protocol*:<http://ocsp.incommon.org>