

Metadata Signing Key

All [SAML Metadata](#) documents published by ACONet for the [eduID.at](#) service are signed with a 2048-bit sized private key that corresponds to the public key contained in the self-issued X.509 certificate reproduced below in [Base64-encoded DER format](#):

```
-----BEGIN CERTIFICATE-----
MIID6jCCATKpAwIBAgI JANITq5P0ezz0MA0GCSqGSIb3DQEBQwUAMIGJMQswcQYD
VQGEWjBjVDEPMA0GA1UECgwGQNBPbmV0MSMuYU9yYXQwLDBpBQ09uZXQGSWRlbG9p
dHkgRmVhZCZlJhdGlvbGJvbmMCGA1UEAwwdZW50YXQwYXQwYXRhZGEGU2lbnmLu
ZyBLZXxkHDAaBgkqhkiG9w0BCQEWdWVkdWlkQGJfby5uZXQwHhcNMTgwNDEeMTIw
MDA2WhcNMmZcxMjMxMTIwMDA2WjCBiTElMAKGA1UEBhMCQVQwDzANBgNVBAoMBKFD
T25ldDEjMCEGA1UECmwaQNBPbmV0IElkZw50aXR5IEZlZGVyYXRpb24xJjAKBgNV
BAMMHwVkdWlkEULFEMc1e1dGfkyXRHIFNpZ25pbmV0MSuYU9yYXQwLDBpBQ09uZXQw
Fg1LZHVpZEBHjY28ubmV0MTBIJjANBgkqhkiG9w0BAQwEFAAOCAQAMIAZCICAAQEA
wSDLS25Y5spmrB8fykSqzXbTaEssR/cD12foFIDoLWn5PUeWxWpS18zXyoFw2nW
lR0RK4728wjU1Ql04BCzRt8ix52GJx9S9Q5xgBs4Ze/Xp6hgUBa0if2PxoWoAaY2Uq
YgJ8l6jovkZ5BeY7J2CfkrWt+QSkzMm+YEsMAcwpyghavKfDvY0S0xubuYBacq
kgwA0J8AKDui3GkfpydrCESR8KTT8P65XiE+g8YCU0mq11vCzD0048y5DK5SHD4
PhkpG2BAayGiNUR7bDSkVclb3uybwjbbBQI+q0hu4NqpeZjTY0pTnu50ZhQW49e4
M+gKJEoSuceI3CSZ6nSfHwIDAQABo1MwUTAdBgNVHQ4EFgQUTA74F1ZiE6v20KUH
HM4n/i8u8uMwHwYDVROjBgBwFUTA74F1ZiE6v20KUHHM4n/i8u8uMwHwYDVROt
AQH/BAUwAwEB/zANBgkqhkiG9w0BAQwEFAAOCAQEAAGj65BAAKB84gxSWF2tkkFZ
7Theftdbdpd7tD6G0bu1Fh5wnyHs/YZeM7vJHAmqaoebKfPx0L0nDXaQ9k4KI
0+qYYNJas0YcC9n1R/ZZwkPkJp0nbzArBZz5w6gafLLEiK+nc0GX0swyPbsCL+jh
kYmJ38ea4xPzpLlvvhayYhr+K9X2P2um6Js/YyUB9i4lZrSs5JjnViQyc30Y7u62
zqkUDQ/3Ggu2j+GPF/Ij7+jwIuxXu0B3Xpvc8zxSQ/unozRTNY3TR7kvcIxyMA9I
M0e1lBhktwu7txYDCUwXmqh4kZLiU90AL+vpdek1QPp4rKST0NMwMK+kETNJQ==
-----END CERTIFICATE-----
```

This certificate can also be securely downloaded via HTTPS from this location, e.g. via curl:

eduID.at SAML Metadata Signing Key

```
curl -O https://eduid.at/md/aconet-metadata-signing.crt
```

The public key from that certificate is this (`openssl x509 -pubkey -noout -in aconet-metadata-signing.crt`):

```
-----BEGIN PUBLIC KEY-----
MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAwsDLs25Y5spmrB8fykSq
ZxbTaEssR/cD12foFIDoLwn5PUeXwwPs18zXyoFw2nwlRORk4728wjU1Ql04BcZ
Rt81x52GJXs9Qx5kBs4Ze/xp6hguBA0i1f2Px0woA2UTqUgBj8L6jovkz5rBeiY7
2CkfvrWw+QSzkMm+YEsMAcwpyghavKfDvYS0xubuYBacqkwGa0J8AkDuiG3kfpYdr
CE5R8KtT8P65Xie5+g8YCU0mq1lVcZD0048y5dk5SHD4PhkpG2BAayGiNUR7bDsk
VElb3uybjwb0BQI+q0hu4NqpeZjTY0pTnu5oZhQW49e4M+gKJEoSuceI3CSZ6nsf
HwIDAQAB
-----END PUBLIC KEY-----
```

The fingerprints of that certificate are:

SHA-1 6B:11:58:68:AC:6D:45:BC:7E:51:9B:5D:45:22:2A:8D:85:C1:02:2F
SHA-256 0A:8B:47:D5:B9:F3:8C:61:9A:7A:99:A6:62:ED:A5:A0:43:71:B6:45:17:2E:62:2D:DB:BF:0A:E5:49:17:8C:2D

You can always [contact AConet](#) to verify the fingerprint, e.g. via telephone. To calculate the fingerprint of the downloaded certificate use the following open `ssl` command (on MS-Windows you could use [these binaries](#)):

```
openssl x509 -noout -fingerprint -sha256 -in aconet-metadata-signing.crt
```

Optional Web of Trust check

For added assurance about the authenticity of the key reproduced and referenced above you may download an [OpenPGP](#) signature from [one of the eduID. at operators](#).

The commands below will download the Metadata Signing Key (aconet-metadata-signing.crt), a file containing an OpenPGP-signature of it (aconet-metadata-signing.crt.asc) and then verify that the Metadata Signing Key has in fact been signed by that OpenPGP-key:

```
$ curl -O "https://eduid.at/md/aconet-metadata-signing.crt{,.asc}"
$ gpg --verify aconet-metadata-signing.crt.asc aconet-metadata-signing.crt
gpg: Signature made Wed 11 Apr 2018 03:35:10 PM CEST
gpg:          using RSA key 336A59F993C634AD50D6DBE2AFF60721F868B59A
gpg: Good signature from "Peter Schober <peter.schober@univie.ac.at>" [full]
gpg:          aka "Peter Schober <peter@aco.net>" [full]
```

How much additional trust you derive from that procedure depends solely on the trust you put into the [Web of trust](#) signatures on [the OpenPGP key used to sign that file](#), i.e. whether you believe the people who have signed the eduID.at operator's key to be legit thereby testifying to the authenticity of the identity represented in that OpenPGP key.