

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-----
MIID6jCCAtKgAwIBAgIJANITq5P0ezzOMA0GCSqGSIb3DQEBCwUAMIGJMQswCQYD
VQQGEwJBVDEPMA0GA1UECgwGQUNPbmV0MSMwIQYDVQQLEDBpBQ09uZXQgSWRlbnRp
dHkgRmVhZG1vbnRlbnR1SUQuYXQgTWV0YWRhdGEgU2lnbnmlu
ZyBLZXkxHDAaBgkqhkiG9w0BCQEWDWVkdWlkQGZjby5uZXQwHhcNMTgwNDExMTIw
MDA2WWhcNMZcxMjMxMTIwMDA2WjCBiTELMAkGALUEBhMCQVQxZDzANBgNVBAoMBkFD
T25ldDEjMCEGALUECwwaQUNPbmV0IEl1kZW50aXR5IEZlZGVyYXRpb24xJjAKBgNV
BAMHVVkdWU1ELmF0IE1ldGFkYXRhIFNpZ25pbmcgS2V5MRwwGyJKoZIhvcNAQkB
FgllZHVpZEBhY28ubmV0MIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEA
wSDLS25Y5spmrB8fykSgzXbTaEssR/cd12foFIDoLwN5PUEwXWwPs18zXyoFw2nW
lrORK47Z8wju1Q104BcZrt8ix52GJXs9Q5xgBs4ze/Xp6hgUBa0if2PxOwoA2UTq
UgBj8L6joVkr5rBeiY7J2CkfvRw+QszkMm+YEsMAcwpyghavKfDvYSOxubuYBacq
kwGa0J8AkDuiG3kfpYdrCE5R8KtT8P65Xie5+g8YCU0mq11vCzD0048y5dK5SHD4
PhkpG2BAayGiNUR7bDskVElb3uybwjb0BQI+q0hu4NqpeZjTY0pTnu5oZhQW49e4
M+gKJEoSuceI3CSZ6nSfHwIDAQABo1MwUTAdBgNVHQ4EFgQUTA74Flzie6v2OKUH
HM4n/i8u8uMwHwYDVR0jBBgwFoAUTA74Flzie6v2OKUHHM4n/i8u8uMwDwYDVR0T
AQH/BAUwAwEB/zANBgkqhkiG9w0BAQsFAAOCAQEAGaJ65BAAKb8B4gxSWF2tkkFZ
7Theftd8pdp7wTdG0b6uR1fh5wnyHs/TZeM7vJHAmqaobekFpFX0LONDXA9k4kI
O+qYYNjAs0Yc9n1R/ZZwKPkJpOnbzArBzq5w6gafLLEiK+nc0GX0swyPbsCL+jh
kYMi38ea4xFpz1IvvhArYhr+K9X2P2um6Js/YyUB9i4lRss5JinVIQyc30Y7u62
zqkUDQ/3Ggu2j+GPF/Ij7+jwIuxXu0B3XpvC8zxSQ/unoZRTNY3TR7kvcIxyMA9I
Mo011Bhktwu7txYdxCUWxmhqakzLIu9OAL+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/keys/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/cd12foFIDoLwN5PUEwXWwPs18zXyoFw2nWlrORK47Z8wju1Q104BcZ
Rt8ix52GJXs9Q5xgBs4ze/Xp6hgUBa0if2PxOwoA2UTqUgBj8L6joVkr5rBeiY7J
2CkfvRw+QszkMm+YEsMAcwpyghavKfDvYSOxubuYBacqkwGa0J8AkDuiG3kfpYdr
CE5R8KtT8P65Xie5+g8YCU0mq11vCzD0048y5dK5SHD4PhkpG2BAayGiNUR7bDsk
VElb3uybwjb0BQI+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 openssl 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/keys/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.