

Production environment (Fedkom)

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The Fedkom production environment is accessible only to members of Fedkom and opted-in members from Sambí and Skolfederation. All member metadata published in the Fedkom aggregated metadata feed is by confirmed member organizations, that must comply with the trust framework and technical requirements.

Access to Fedkom production environment

All members of Fedkom gain automatic access to the production environment.

Uploading metadata to Fedkom

Metadata opt-in from Skolfederation or Sambí

If your member organization is a Swedish municipality and a member of either Skolfederation or Sambí, you have the option to include existing or new entities in Fedkom. This is done by:

1. Applying the opt-in Entity Attribute as defined in the Fedkom [policy](#)
2. Uploading the entity metadata to Skolfederation or Sambí via Federationsadmin

Example:

```
<md:EntityDescriptor
  xmlns:md="urn:oasis:names:tc:SAML:2.0:metadata"
  xmlns:saml="urn:oasis:names:tc:SAML:2.0:assertion"
  xmlns:ds="http://www.w3.org/2000/09/xmldsig#"
  xmlns:mdui="urn:oasis:names:tc:SAML:metadata:ui"
  xmlns:mdattr="urn:oasis:names:tc:SAML:metadata:attribute"
  entityID="https://openfed.swefed.se/placeholder/internetstiftelsen/sp-prod">
  <md:Extensions>
    <mdattr:EntityAttributes>
      <saml:Attribute Name="https://id.openfed.se/entityattributes/opt-in" NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri">
        <saml:AttributeValue>https://id.openfed.se/entityattributes/opt-in/yes</saml:AttributeValue>
      </saml:Attribute>
    </mdattr:EntityAttributes>
  </md:Extensions>
  ...
  ...
</md:EntityDescriptor>
```

Once the opt-in Entity Attribute is correctly applied and the metadata has been published, the entity will be included in Fedkom in accordance with the federation policy.



Metadata Publication Delay

After publishing your entity with the opt-in Entity Attribute, it may take up to approximately one hour before the entity is published in the Fedkom feeds.

This delay is due to differences in metadata aggregation and publishing cycles between the federations and Fedkom.

Sending metadata manually to federation operator

If your member organization is not a member of Skolfederation or Sambí, you can upload metadata by sending the metadata to the federation operator for validation and verification. If there are errors, the federation operator will request corrections. If everything is ready for upload, the federation operator will contact the Technical Contact to validate metadata checksum (SHA1) before publication to federation.

Technical information

Metadata

Fedkom produces three metadata feeds available for consumption:

Metadata feed	URL
All entities (IdP and SP)	https://md.openfed.se/prod/md/metadata_set1_01.xml
All SP's only	https://md.openfed.se/prod/md/metadata_set1_sp_01.xml
All IdP's only	https://md.openfed.se/prod/md/metadata_set1_idp_01.xml

Public key for verifying signature of all Fedkom metadata feeds is found below.

Certificate file: [openfed-saml-signer-prod-1_0.crt](#)

openfed-saml-signer-prod-1_0.crt

```
-----BEGIN CERTIFICATE-----
MIIF3zCCA8egAwIBAgIUFWgREqIHK0DwvAEUVaXW0Z6cNr0wDQYJKoZIhvcNAQEL
BQAwfjEhMB8GA1UEAwYb3BlbmZlZC1zYW1sLXNpZ25lcilwcm9kMSgwJG9YDVQK
DB9UaGUgU3dlZGlzaCBJbnRlcm5ldCBGbz3VuZGF0aW9uMRswGQYDVQLDBJGZWRl
cmF0ZWQgU2VydmljZXMxEjAQBGNVBAcMVCN0b2NraG9sbTAwYjYyMTg5MDA0
MjhaGA8yMTI2MDEyNTEwMDQyOjEhMB8GA1UEAwYb3BlbmZlZC1zYW1sLXNp
Z25lcilwcm9kMSgwJG9YDVQKDB9UaGUgU3dlZGlzaCBJbnRlcm5ldCBGbz3VuZGF0
aW9uMRswGQYDVQLDBJGZWRlcmF0ZWQgU2VydmljZXMxEjAQBGNVBAcMVCN0b2Nra
G9sbTCCAIwDQYJKoZIhvcNAQEBBQADggIPADCCAgoCggIBAKesRxDcVdsDYvj
f2y0YiuK5ay/phWT3DY3DTsIQDpnpWewIuRaSGhkVm5Q+/DVjDquQAI/Iw1HiUBt
m9pP1aAIt3fCM3Fz3z2HmPquz/SmKRF1Mov8jPp169ZK/DmtZKIcW42mCdH//oq
gjqcR2rDz4nj35kmCVUaKpyAvU6lmQxlG6ODIKSGjcrMCJKNNnG1woA1pJKCfC
4ZJ+WXD5/9btUmPMo0k70GRbva5/KDP7JBxi7t41XrM9UXhfnBSnmrB0ulagwwDM
oF28XIeu37/4ZuW8hYJzOGIOME5dmM2QJOTwaoMjrk3z84Bc4TEB+Tq5+j2dsVx8
gu4oq8y7LDkEnQoQx1/gfobAC14Q5ydvV33CLRPve+Zr060ZkA5wIJG7qkUHZE
TNOBFYbaJCY4vVVMYAGdOcpG2gBGVnEy0akURzccv1+z9bwu9S3mjsPEp4FV0sq
7ikw/I+fGdyCKdxXzXs10lu9G514DYrSXhMqzYH+M6oQjRjzcHLkRhLowDrIGYa
LftcKMbQ/3cxx4xAWTBb1TSTy2jF6zuVO5L+sFM6FofQ5rRpXcUMeWh6w58ZJgpW
ldKCRm+YwaAmn/i3vZwpkCQZS10seZ7BoChq1YjFV08fJx0w928dxuagOX41M9AQ
M8vWqXd6se8uNBC9TGZmVrYAtFebzAgMBAAGjUzBRMB0GA1UdDgQWBbTbMbfzWZ6S
u1ZjkcY/YaJbEE0b6TAFBgNVHSMGDAWgBTbMbfzWZ6Su1ZjkcY/YaJbEE0b6TAP
BgNVHRMBAf8EBTADAQH/MA0GCSqGSIb3DQEBCwUAA4ICAQBesnIFX0im9T5TXBgp
guoNqWVd7Zu/55M9HPVfLcjk37C8Epmp1j3q6RmvGNY+11jyPBTUnujzeOpIMKf2
yJDg0wDMqZdOMZYCVeZGI+4p+DPWT6iUBS6xnXg6voU4HxDVCWEynE/jx0QS4oY0
2Elixh5/m5I84T21G1AncxkuUwoCdF19Uqv7JVOArM561zwjSDFq0tYD6V0qegGr
MXxtOP+IkVGCvX/BudtNWyngMCK6NiU1WS3hSwJsCnaZCMQh1kOY7K62C61T7T5F
atnUXGAvhpl1XiB8RnaMWNhsDRywpRhARJt8gpHge7ETrmzr1knh04ewxdMcfvy4
ukqXrXroXgIOYldZ8Wp6Pv4Wry3zKNNYgoOAMNxlDK8Xt4AXdjomPLBrevjfpjPRS
jzFiVmH+kXMHpV1X4uEdR9aGqjXI89VJxsRjqCjA0yqWYUUi49ZItZP1FfIOqP
rPxdue1Mx1TGTm+d7dYVPzGAzKTSK/YP6AeuVkhB2YJ1Sx7msF7xowktH9m+7Bpk
xDBqvt2cWfX0B8VQofjP9pf4iq1vCKbPS976bZmuJQ2MB7yk8dW+6Q9w5gVoaE7r
gMUWbMXQo0j06TQE5UaZ+JLN3s71f1WiruDuey72FrvsKCrIwygIevS3p3WDNKEm
vwRHX3FjNwXhLYnCO0yTds2YQ==
-----END CERTIFICATE-----
```

SHA-256 fingerprint:

EE:A2:A9:C3:05:06:72:BD:B5:4E:81:1E:97:7A:11:B4:A6:DC:08:7B:C5:15:D5:B8:6F:0D:0C:88:37:F1:BA:B6



Verify metadata with certificate

We recommend verifying the fingerprint of the signing certificate with the federation operator before adding the certificate to your IdP/SP trust. After trusting the certificate, always verify federation metadata signature with signing certificate to guarantee metadata integrity.

Discovery Service (DS)

A centralized SAML 2.0 Discovery Service for Fedkom is found below.

<https://md.openfed.se/prod/ds/>

The DS is populated with all IdP's from the Fedkom metadata. The names shown in the DS are based on the OrganizationDisplayName attribute from the IdP metadata.

Use other ways of discovery

Note that the federation operator does not recommend the usage of the centralized DS for discovery of IdP's in production environments, due to limitations in user experience. If required, service providers are recommended to implement a method of discovery better suited to their service.

Generic errorURL handler

A generic errorURL handler is provided in the federation. More information: [Generic errorURL handler](#).