

# HREF Key Rollover 2025

## English

## Introduction

The Hungarian Research and Educational Federation is migrating to a new metadata signing certificate (HREF-2025).

All HREF members and partners must update their IdP and SP configurations with the new signing certificate by June 14, 2025, in order to ensure uninterrupted access to federated services supporting eduID.hu. After this date, the old signing certificate (HREF-2020), which has been in use for more than 4 years, will be decommissioned, and 10 days after its last use, the old metadata will become invalid.

The tables below contain all necessary data for the transition. Where possible, configuration examples offer solutions that allow simultaneous use of both the old and new metadata.

## Key Rollover

### Code names

Code name	Metadata signing certificate	Date of expiration
HREF-2011	<a href="#">href-metadata-signer-2011.crt</a>	2022.01.01.
HREF-2015	<a href="#">mdx-test-signer-2015.crt</a>	2022.01.01.
HREF-2020	<a href="#">href-metadata-signer-2020.crt</a>	2025.06.14.
HREF-2025	<a href="#">href-metadata-signer-2025.crt</a>	2030.06.14.

### SHA1 fingerprints

Code name	SHA1 fingerprint
HREF-2011	FE:AE:0B:E8:FB:59:ED:F7:CB:7F:69:DF:19:4F:8B:6D:C7:F6:96:66

Code name	SHA1 fingerprint
HREF-2015	91:81:AD:2B:F1:C1:4E:47:93:A2:9D:49:34:B7:77:62:4F:2F:98:43
HREF-2020	C3:72:DC:75:4C:FA:BA:65:63:52:D9:6B:47:5B:44:7E:AA:F6:45:61
HREF-2025	45:B2:33:96:7C:4F:7E:42:86:8D:CC:CF:CC:0E:3E:1C:2E:24:C2:DE

## Domain names

Domain	URL	Key	Status
metadata.eduid.hu	metadata.eduid.hu/2011/href.xml	HREF-2011	Prod
	metadata.eduid.hu/2020/href.xml	HREF-2020	Prod
	metadata.eduid.hu/2025/href.xml	HREF-2025	Prod
mdx.eduid.hu	mdx-2015.eduid.hu	HREF-2015	Prod
	mdx-2020.eduid.hu	HREF-2020	Prod
	mdx-2025.eduid.hu	HREF-2025	Prod

## Discovery Service change

URL
<a href="https://mdx-2020.eduid.hu/role/idp.ds">https://mdx-2020.eduid.hu/role/idp.ds</a>
<a href="https://mdx-2025.eduid.hu/discovery/ds">https://mdx-2025.eduid.hu/discovery/ds</a>

# Shibboleth Service Provider beállítások

<https://wiki.shibboleth.net/confluence/display/SP3/MetadataProvider>

## XML

<https://wiki.shibboleth.net/confluence/display/SP3/XMLMetadataProvider>

```
<MetadataProvider type="Chaining">
  <MetadataProvider type="XML" id="href-2020" url="https://mdx-2020.eduid.hu"
```

```
backingFilePath="href-2020.xml">
    <MetadataFilter type="Signature" certificate="href-metadata-signer-2020.crt"/>
    <MetadataFilter type="RequireValidUntil" maxValidityInterval="864000"/>
</MetadataProvider>
<MetadataProvider type="XML" id="href-2025" url="https://mdx-2025.eduid.hu"
backingFilePath="href-2025.xml">
    <MetadataFilter type="Signature" certificate="href-metadata-signer-2025.crt"/>
    <MetadataFilter type="RequireValidUntil" maxValidityInterval="864000"/>
</MetadataProvider>
</MetadataProvider>
```

# MDX

## Shibboleth 3.X

<https://wiki.shibboleth.net/confluence/display/SP3/MDQMetadataProvider>

```
<MetadataProvider type="MDQ" id="href-2020" ignoreTransport="true" baseUrl="https://mdx-
2020.eduid.hu/">
    <MetadataFilter type="Signature" certificate="href-metadata-signer-2020.crt"/>
    <MetadataFilter type="RequireValidUntil" maxValidityInterval="864000"/>
</MetadataProvider>
<MetadataProvider type="MDQ" id="href-2025" ignoreTransport="true" baseUrl="https://mdx-
2025.eduid.hu/">
    <MetadataFilter type="Signature" certificate="href-metadata-signer-2025.crt"/>
    <MetadataFilter type="RequireValidUntil" maxValidityInterval="864000"/>
</MetadataProvider>
```

## példa

apache + shibboleth 3.X - sed segítségével

```
sudo sed 's/mdx-2020.eduid.hu/mdx-2025.eduid.hu/g' /etc/shibboleth/shibboleth2.xml -i
sudo sed 's/href-2020/href-2025/g' /etc/shibboleth/shibboleth2.xml -i
sudo sed 's/href-metadata-signer-2020.crt/href-metadata-signer-2025.crt/g'
/etc/shibboleth/shibboleth2.xml -i
sudo sed 's#https://mdx-202..eduid.hu/role/idp.ds#https://mdx-2025.eduid.hu/discovery/ds#g'
/etc/shibboleth/shibboleth2.xml -i
sudo systemctl restart shibd.service apache2.service
```

## Shibboleth 2.X

```
<MetadataProvider type="Dynamic" id="href-2020" ignoreTransport="true">
  <Subst>https://mdx-2020.eduid.hu/entities/$entityID</Subst>
  <MetadataFilter type="Signature" certificate="href-metadata-signer-2020.crt"/>
</MetadataProvider>
<MetadataProvider type="Dynamic" id="href-2025" ignoreTransport="true">
  <Subst>https://mdx-2025.eduid.hu/entities/$entityID</Subst>
  <MetadataFilter type="Signature" certificate="href-metadata-signer-2025.crt"/>
</MetadataProvider>
```

# Shibboleth Identity Provider beállítások

## XML

### Shibboleth 4.X

<https://wiki.shibboleth.net/confluence/display/IDP4/FileBackedHTTPMetadataProvider>

```
<MetadataProvider id="RemoteMetadataAggregate" xsi:type="FileBackedHTTPMetadataProvider"
  backingFile="%{idp.home}/metadata/href-2025.xml"
  metadataURL="https://metadata.eduid.hu/2025/href.xml">

  <MetadataFilter xsi:type="SignatureValidation" requireSignedRoot="true"
    certificateFile="%{idp.home}/conf/metadata/href-metadata-signer-2025.crt"/>

  <MetadataFilter xsi:type="RequiredValidUntil" maxValidityInterval="P9D"/>

  <MetadataFilter xsi:type="EntityRoleWhiteList">
    <RetainedRole>md:SPSS0Descriptor</RetainedRole>
  </MetadataFilter>

</MetadataProvider>
```

### Shibboleth 3.X

<https://wiki.shibboleth.net/confluence/display/IDP30/FileBackedHTTPMetadataProvider>

```
<MetadataProvider id="RemoteMetadataAggregate" xsi:type="FileBackedHTTPMetadataProvider"
  backingFile="%{idp.home}/metadata/href-2025.xml"
```

```
        metadataURL="https://metadata.eduid.hu/2025/href.xml">

<MetadataFilter xsi:type="SignatureValidation" requireSignedRoot="true"
    certificateFile="%{idp.home}/conf/metadata/href-metadata-signer-2025.crt"/>

<MetadataFilter xsi:type="RequiredValidUntil" maxValidityInterval="P9D"/>

<MetadataFilter xsi:type="EntityRoleWhiteList">
    <RetainedRole>md:SPSS0Descriptor</RetainedRole>
</MetadataFilter>

</MetadataProvider>
```

## MDX

### Shibboleth 4.X

<https://wiki.shibboleth.net/confluence/display/IDP4/DynamicHTTPMetadataProvider>

```
<MetadataProvider id="DynamicEntityMetadata" xsi:type="DynamicHTTPMetadataProvider"
    connectionRequestTimeout="PT2S"
    connectionTimeout="PT2S"
    socketTimeout="PT4S">

    <MetadataFilter xsi:type="SignatureValidation" requireSignedRoot="true"
        certificateFile="%{idp.home}/credentials/href-metadata-signer-2025.crt"/>

    <MetadataFilter xsi:type="RequiredValidUntil" maxValidityInterval="P9D"/>

    <MetadataQueryProtocol>https://mdx-2025.eduid.hu/</MetadataQueryProtocol>

</MetadataProvider>
```

### Shibboleth 3.X

<https://wiki.shibboleth.net/confluence/display/IDP30/DynamicHTTPMetadataProvider>

```
<MetadataProvider id="DynamicEntityMetadata" xsi:type="DynamicHTTPMetadataProvider"
    connectionRequestTimeout="PT2S"
```

```
        connectionTimeout="PT2S"
        socketTimeout="PT4S">

<MetadataFilter xsi:type="SignatureValidation" requireSignedRoot="true"
    certificateFile="%{idp.home}/credentials/href-metadata-signer-2025.crt"/>

<MetadataFilter xsi:type="RequiredValidUntil" maxValidityInterval="P9D"/>

<MetadataQueryProtocol>https://mdx-2025.eduid.hu/</MetadataQueryProtocol>

</MetadataProvider>
```

# SimpleSAMLphp

## MDX

```
//config/config.php
'metadata.sources' => [
    ['type' => 'flatfile'], // ez a *-hosted metadata konfiguráció betöltése miatt szükséges
    [
        'type' => 'mdq',
        'server' => 'https://mdx-2025.eduid.hu',
        /* --- */
        'validateFingerprint' =>
'45:B2:33:96:7C:4F:7E:42:86:8D:CC:CF:CC:0E:3E:1C:2E:24:C2:DE'
    ],
],
```

## metarefresh

[https://simplesamlphp.org/docs/stable/simplesamlphp-maintenance#section\\_3](https://simplesamlphp.org/docs/stable/simplesamlphp-maintenance#section_3)

[https://github.com/simplesamlphp/simplesamlphp-module-metarefresh/blob/master/docs/simplesamlphp-automated\\_metadata.md](https://github.com/simplesamlphp/simplesamlphp-module-metarefresh/blob/master/docs/simplesamlphp-automated_metadata.md)

```
// config/config-metarefresh.php
$config = [
```

```

'sets' => [
  'href-2020' => [
    'cron'      => ['hourly'],
    'sources'   => [
      [
        'src' => 'https://metadata.eduid.hu/2020/href.xml',
        'validateFingerprint' =>
'C3:72:DC:75:4C:FA:BA:65:63:52:D9:6B:47:5B:44:7E:AA:F6:45:61',
      ],
    ],
    'expireAfter'      => 777600, // 9 nap.
    'outputDir'        => 'metadata/metarefresh-href-2020/',
    'outputFormat' => 'flatfile',
  ],
  'href-2025' => [
    'cron'      => ['hourly'],
    'sources'   => [
      [
        'src' => 'https://metadata.eduid.hu/2025/href.xml',
        'validateFingerprint' =>
'45:B2:33:96:7C:4F:7E:42:86:8D:CC:CF:CC:0E:3E:1C:2E:24:C2:DE',
      ],
    ],
    'expireAfter'      => 777600, // 9 nap.
    'outputDir'        => 'metadata/metarefresh-href-2025/',
    'outputFormat' => 'flatfile',
  ],
],
];

```

```

// config/config.php
'metadata.sources' => [
  ['type' => 'flatfile'],
  ['type' => 'flatfile', 'directory' => 'metadata/metarefresh-href-2020'],
  ['type' => 'flatfile', 'directory' => 'metadata/metarefresh-href-2025'],
],

```

## FAQ /GYIK

## Bővítés alatt!

- Miért cserél KIFÜ kulcsot?
  - IdP-t érinti?
  - Mi a helyzet az eduGAIN-t használó IdP-kkel?
  - Mi a helyzet az eduGAIN-t használó SP-kkel?
  - Hogyan tudom ellenőrizni, hogy jó kulcsot használok?
- 

Változat #2

cziernorbert hozta létre 2026-04-14 13:22:08 CEST

cziernorbert frissítette 2026-04-15 14:29:25 CEST