# HREF Key Rollover 2020 English

# Introduction

The Hungarian Research and Educational Federation is migrating to a new metadata signing certificate (HREF-2020).

All HREF member and partner have to update their IdP and SP configurations before 2022. January 1st., in order to provide the federational services without interruption. After 2022 January 1st., the old metadata signing certificate (HREF-2011) will be shut down.

The tables below and configuration examples are containing all the necessary technical information.

# Key Rollover

## Code names

| Code name | Metadata signing certificate | Date of expiration |
|---|---|---|
| HREF-2011 | href-metadata-signer-2011.crt | 2022.01.01. |
| HREF-2015 | mdx-test-signer-2015.crt | 2022.01.01. |
| HREF-2020 | href-metadata-signer-2020.crt | 2025.06.14. |

## 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` |

# Domain names

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

# Shibboleth Service Provider Configurations

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-2011" url="https://metadata.eduid.hu/2011/href.xml"
backingFilePath="href-2011.xml">
        <MetadataFilter type="Signature" certificate="href-metadata-signer-2011.crt"/>
        <MetadataFilter type="RequireValidUntil" maxValidityInterval="864000"/>
    </MetadataProvider>
    <MetadataProvider type="XML" id="href-2020" url="https://metadata.eduid.hu/2020/href.xml"
backingFilePath="href-2020.xml">
        <MetadataFilter type="Signature" certificate="href-metadata-signer-2020.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-2015" ignoreTransport="true" baseUrl="https://mdx-2015.eduid.hu/">
    <MetadataFilter type="Signature" certificate="mdx-test-signer-2015.crt"/>
    <MetadataFilter type="RequireValidUntil" maxValidityInterval="864000"/>
</MetadataProvider>
<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>
```

## Shibboleth 2.X

```
<MetadataProvider type="Dynamic" id="href-2015" ignoreTransport="true">
    <Subst>https://mdx-2015.eduid.hu/entities/$entityID</Subst>
    <MetadataFilter type="Signature" certificate="mdx-test-signer-2015.crt"/>
</MetadataProvider>
<MetadataProvider type="Dynamic" id="href-2020" ignoreTransport="true">
    <Subst>https://mdx-2020.eduid.hu/entities/$entityID</Subst>
    <MetadataFilter type="Signature" certificate="href-metadata-signer-2020.crt"/>
</MetadataProvider>
```

# Shibboleth Identity Provider Configurations

# XML

## Shibboleth 4.X

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

```
<MetadataProvider id="RemoteMetadataAggregate" xsi:type="FileBackedHTTPMetadataProvider"
                  backingFile="%{idp.home}/metadata/href-2020.xml"
                  metadataURL="https://metadata.eduid.hu/2020/href.xml">

    <MetadataFilter xsi:type="SignatureValidation" requireSignedRoot="true"
        certificateFile="%{idp.home}/conf/metadata/href-metadata-signer-2020.crt"/>

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

    <MetadataFilter xsi:type="EntityRoleWhiteList">
        <RetainedRole>md:SPSSODescriptor</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-2020.xml"
                  metadataURL="https://metadata.eduid.hu/2020/href.xml">

    <MetadataFilter xsi:type="SignatureValidation" requireSignedRoot="true"
        certificateFile="%{idp.home}/conf/metadata/href-metadata-signer-2020.crt"/>

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

    <MetadataFilter xsi:type="EntityRoleWhiteList">
        <RetainedRole>md:SPSSODescriptor</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-2020.crt"/>

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

    <MetadataQueryProtocol>https://mdx-2020.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-2020.crt"/>

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

    <MetadataQueryProtocol>https://mdx-2020.eduid.hu/</MetadataQueryProtocol>

</MetadataProvider>
```

# SimpleSAMLphp Configurations

## MDX

```
//config/config.php
'metadata.sources' => [[=> 'flatfile']('type'), // ez a *-hosted metadata konfiguráció
betöltése miatt szükséges
     [
         'type' => 'mdq',
         'server' => 'https://mdx-2020.eduid.hu',
         /* --- */
         'validateFingerprint' =>
'C3:72:DC:75:4C:FA:BA:65:63:52:D9:6B:47:5B:44:7E:AA:F6:45:61'
     ],
],
```

## metarefresh

https://simplesamlphp.org/docs/stable/simplesamlphp-maintenance#section_3

https://github.com/simplesamlphp/simplesamlphp-module-metarefresh/blob/master/docs/simplesamlphp-automated_metadata.md

```
// config/config-metarefresh.php
$config = [
   'sets' => [
       'href-2011' => [
           'cron'      => ['hourly'],
           'sources'   => [
               [
                   'src' => 'https://metadata.eduid.hu/2011/href.xml',
                   'validateFingerprint' =>
'FE:AE:0B:E8:FB:59:ED:F7:CB:7F:69:DF:19:4F:8B:6D:C7:F6:96:66',
               ],
           ],
           'expireAfter'       => 777600, // 9 nap
```

```
            'outputDir'     => 'metadata/metarefresh-href-2011/',
            'outputFormat' => 'flatfile',
        ],
        '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',
        ],
    ],
];
```

```
// config/config.php
'metadata.sources' => [
    ['type' => 'flatfile'],
    ['type' => 'flatfile', 'directory' => 'metadata/metarefresh-href-2011'],
    ['type' => 'flatfile', 'directory' => 'metadata/metarefresh-href-2020'],
],
```

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Változat #1
document-uploader hozta létre 2025-08-07 12:04:16 CEST
document-uploader frissítette 2025-08-07 12:04:17 CEST