UK federation update
REFEDS 44
13 June 2022

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Remembering Rhys Smith
# Re-engineering UKf service infrastructure

- Replacing HSM by end July 2022
- Developing workflow-based UIs for managing metadata
- Moving away from Jenkins as orchestrator
- Containerising services
- Move to signing aggregates with 4K key by 2030

<table>
<thead>
<tr>
<th>UKf product</th>
<th>Key</th>
<th>Digest algorithm</th>
<th>Signing algorithm</th>
<th>Shibboleth product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aggregate</td>
<td>2K RSA</td>
<td>SHA256</td>
<td>RSA-SHA256</td>
<td>xmlsectool</td>
</tr>
<tr>
<td>MDQ fragments</td>
<td>4K RSA</td>
<td>SHA256</td>
<td>RSA-SHA256</td>
<td>MDA</td>
</tr>
<tr>
<td>MDA all entities</td>
<td>4K RSA</td>
<td>SHA256</td>
<td>RSA-SHA256</td>
<td>xmlsectool</td>
</tr>
</tbody>
</table>
Metadata validation service

- We already publish Apache 2-licensed validation toolchain and output the results of our daily validation run of eduGAIN
- Move to microservice-based architecture will need frequent validation. Why not make this available?
- Help estimate effect of new profiles e.g. any proposals for an eduGAIN baseline
- Proof of concept exists
IdP discovery

• Shibboleth EDS-compatible JSON Discovery feeds
  o Is this a missing piece of the puzzle for moving SPs to MDQ?
  o We now publish 2 feeds alongside every publication of SAML metadata
  o Currently exploring trust models and deployment options (not much luck 😞)

• Removing WAYF protocol from our CDS later this month

• Evaluating options for replacing our venerable CDS
Charging SPs

• Membership of the UK federation is part of Jisc membership for HE/FE. Has been free for SPs.

• Income contributes to UK federation staff costs

• Creates opportunities for incentivising behaviour change

• Reducing number of registered entities!
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