eduGAIN Update

Are we there yet?

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eduGAIN Product Manager

GÉANT

REFEDS @ TNC15, Porto

14 June 2015
eduGAIN in 3 easy steps

Phase 1: Collect Underpants
Phase 2: ?
Phase 3: Profit

http://www.tshirtlaundry.com/The-Underpants-Gnome_p_1441.html
Lots of Federations...
Identity Federations: World Wide

42 Production Federations
14 Pilot Federations

Last update April 2015
eduroam Federations: World Wide

eduGAIN & Federation Status

April 2015

32 eduGAIN Members
9 Joining eduGAIN
3 Candidate Federation
12 Other Federations
eduGAIN & Federation Status

June 2015

- 33 eduGAIN Members
- 8 Joining eduGAIN
- 4 Candidate Federation
- 13 Other Federations
eduGAIN & Federation Status

June 2015

- 33 eduGAIN Members
- 8 Joining eduGAIN
- 4 Candidate Federation
- 13 Other Federations
eduGAIN: Some Statistics

- **April 2011**: Official start of eduGAIN
- **Nov 2013**: 21 Federations are members (50%), 5 joining
- **Apr 2014**: 24 Federations are members (51%), 6 joining
- **April 2015**: 32 Federations are members (57%), 9 joining
- **June 2015**: 33 Federations are members (58%), 8 joining, 4 candidates

- **Entities**: 1285 IdPs, 961 SPs (2244 in total)
  One IdP can represent for dozens of organisations and services depending on federation architecture => actual numbers are higher

- **Whole (academic) SAML landscape**: 56 Federations, 3007 IdPs, 6514 SPs (gathered from metadata)
  Not all of them *need* to be interfederated, e.g. many internal SPs

Numbers from June 2015
No more theoretical developments

- Create a theoretical use-case
  - Explore the options
  - Pilot some developments
  - Rollout

- Realise that the theoretical use-case doesn’t work in the real world
  - Refactor, Rework, Ignore!

*In theory, there is no difference between theory and practice.*
*But, in practice, there is.*

Jan L. A. van de Snepscheut

http://arseniic.deviantart.com/art/Fancy-Unicorn-315363946
Evolution

- Not of the species – but of federated service delivery

Do you know what this is?

Image URL: http://www.oldgardentools.co.uk/transporting
Handbarrow → Wheelbarrow

Image URL: http://pismobobs.com/2012/04/07/wooden-wheelbarrow-planter/
## Handbarrow → Wheelbarrow

<table>
<thead>
<tr>
<th></th>
<th>Handbarrow</th>
<th>European Wheelbarrow</th>
<th>Chinese Wheelbarrow</th>
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</thead>
<tbody>
<tr>
<td>People</td>
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<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Wheel</td>
<td>✗</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
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<td>✓</td>
<td>✓</td>
<td>✗x3</td>
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<tr>
<td>Steer &amp; Lift</td>
<td>✓</td>
<td>✓</td>
<td>✗</td>
</tr>
</tbody>
</table>

Image URL: http://www3.sympatico.ca/amoon/80.html
If there is a better solution...

...why aren’t we doing it?

But do we know there is a better way?
At the start of the ELCIRA project (June 2012)
Deployment Path of NREN Services

- eduroam
- NREN Federation
- RADIUS
- Campus
- RADIUS
- Hotspots

WebSSO
- Campus IdP
- Campus Services

SAML Federation
- NREN IdP
- NREN Services

eduGAIN
- Federation Policy
- Sharing Services
At the end of the ELCIRA project (Oct 2014)
Deployment Path of NREN Services

- Federation Policy
  - Framework to share services

- SAML Federation
  - eduGAIN
  - NREN IdP
  - NREN Services

- WebSSO
  - Campus IdP
  - Campus Services

- eduroam
  - Federation RADIUS
  - Campus RADIUS
  - Hotspots
How can we evolve our service?
How can we evolve our service?

- Cross-pollination of ideas!

- Learn from your problems
  - Create solutions...
  - Tell someone!

- Help us evolve more quickly
Where here to help...

edugain@geant.net
Thank you and any questions