What are we doing

- Federated Identity Management based on SAML
  - Hub-and-spoke
  - Stepping stone to SSO to cloud services
  - Mapping to LDAP, Personal Certificates for Grid world, Oauth, etc
- Step-up-authentication and LoA enhancer incl. vetting
- Attribute provider is the new identity providers
- Certificate Service
- Pinning in the net / Certificate transparency
- Open Collaboration Exchange – Federation of Federations
- Etc. etc.
Multi-Disciplinary Collaboration

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Circle of Pain

Resources & Services

Authorization

Access Control

Virtual Collaboration

Relationship

Users
OpenConext

- Provides the glue and lubrication middleware to make campus, cloud based services and resources usable for collaboration for both inter campus and virtual collaboration scenarios
- OpenConext offers the Identity and Group Infrastructure
- Offer the platform software for large, virtual collaboration-type collaboration to run-you-own

- OpenConext allows you to create your own collaboration environment that organizes your (online) applications, services and resources
Stats

SURFconext + SURFfederatie SP logins (SSO)

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<th>Date</th>
<th>SURFconext SP logins</th>
<th>SURFfederatie SP logins</th>
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OCX — Rationale

• Facilitate international collaborations and virtual organizations
• Make it easier for global interconnection of IdPs and SPs
• Harmonizing attribute exchange that will result in more SPs that potentially become (technically) available to more individual (sets of) IdPs
• Ideally, for any participating country, SPs and IdPs will have to ‘openconext’ only once to become part of the exchange
• Add-on to eduGAIN
Current Situation

eduGAIN Policy & Metadata Exchange

Identity Provider in the Netherlands
UNIVERSITY OF TWENTE.

Service Provider from the USA
box

Access Federation in the Netherlands

UK ACFED

Identity Provider
IdP

Service Provider
SP

eduGAIN

SURFconext
OCX Concept

openconext.org

Policy & Metadata Exchange

IdP

SP

IdP

SP

IdP

SP

IdP

SP

IdP

SP

IdP

SP

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OCX Concept

openconext.org

OCX
Policy & Metadata & Technical Exchange

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Scenarios — Multiple Exchanges (1)

OpenConnextExchange API

ca.openconnext.org  uk.openconnext.org  nl.openconnext.org  jp.openconnext.org

IdP

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Challenges

• Again, it is all about trust and its balance with usability
• For individual SP-IdP cases the eduGAIN policies might require strengthening with bi-laterals which might lead to policy creep
• Stepping stone for SPs, but how to get the international VOs involved
• Hierarchy of trust and policies
• Next steps — we would like to invite NRENs to work out both OCX scenarios
  - Organizational
  - Technical
  - Legal / policy wise