WLCG Group

Update on identity federation











Worldwide LHC Computing Grid

Romain Wartel, CERN July 2015 GDB





Brief AARC / Sirtfi update

AARC started

- Kick-off meeting complete
- Main tasks started
- Work plans are being finalised
- Partners who committed to AARC are being identified & actioned

Sirtifi

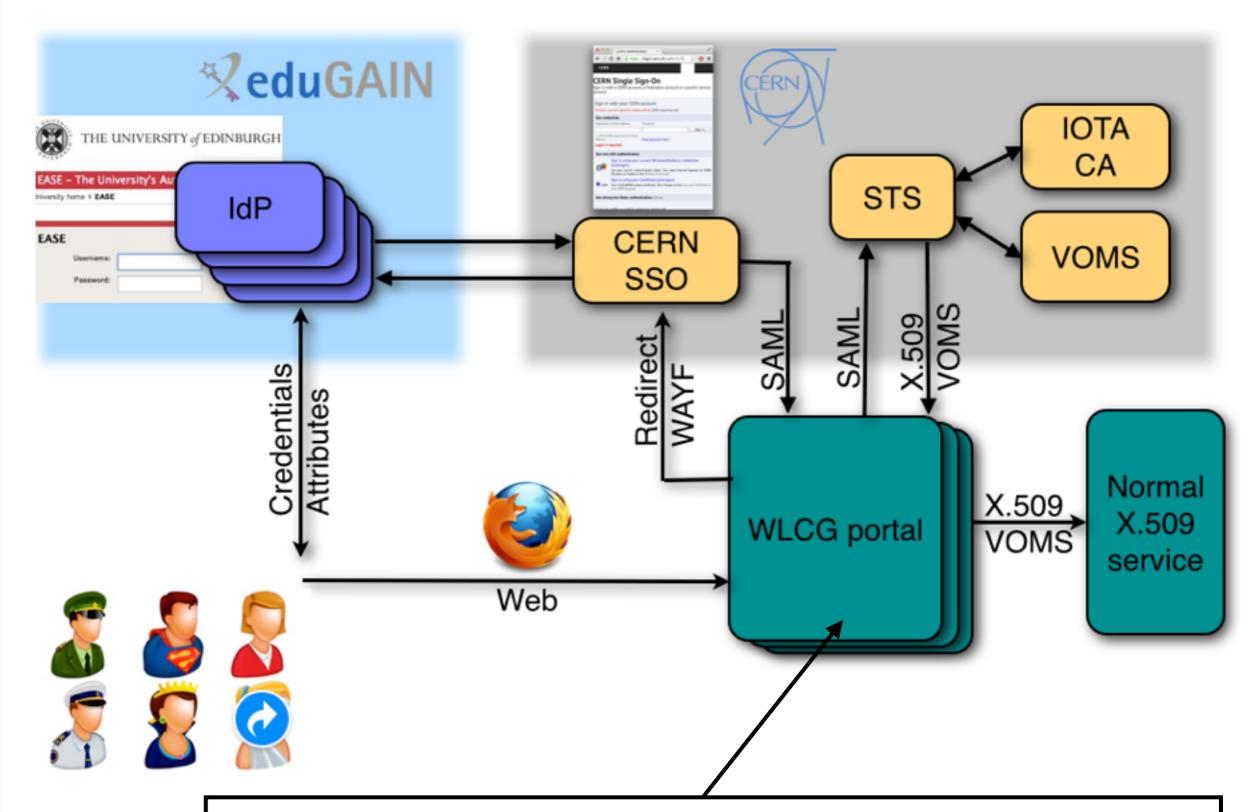
- Working group on incident response for federations
- Significant US involvement, links with FIM4R and REFEDS
- Current work
 - Register security contact information in EduGAIN
 - Express compliance in metadata with Sirtfi trust framework
 - Test this with a few key identity and service providers in EduGAIN (CERN, InCommon, LIGO, Surfeit, Sunet)
 - Continue work on the trust framework







WLCG pilot







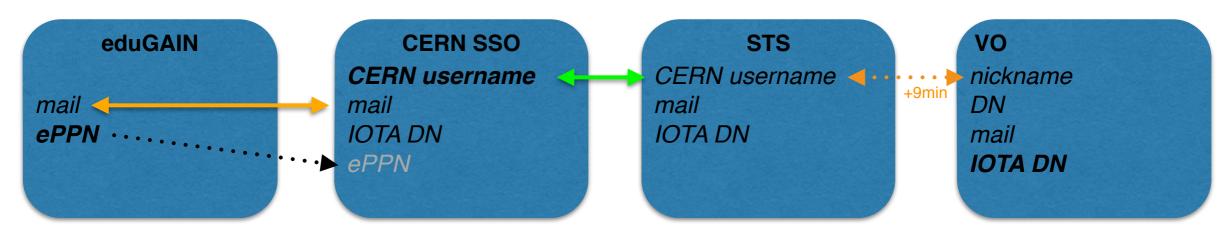
User identity mapping







User identity mapping



eduPersonPrincipalName? (ePPN)

A single value of the formuser@domain, wheredomainis (typically) a DNS-like subdomain representing the security domain of the user (e.g., "osu.edu") and user is generally a username, NetID, UserID, etc. of the sort typically assigned for authentication to network services within the security domain. [...] the possibility for recycling/reassignment does still exist within the domain of a given identity provider. Note that at some Identity Providers a user can freely change their local account name (in the case of a name change due to marriage, for example), and the corresponding EPPN will typically change as well. This can cause a loss of service until name changes propagate throughout every application storing the value. For a less dynamic identifier, see also the eduPersonTargetedID attribute.

-> No guarantee the eppn will be unique for each user over time

eduPersonTargetedID?

A single string value [...] that uniquely identifiers a user in an opaque, privacy-preserving fashion.

-> A hash generated via ePPN and SP entityID. Unique **per** service. Not released by many IdPs anyway.

eduPersonUniqueID?

https://www.incommon.org/federation/attributesummary.html#eduPersonPrincipal

A long-lived, non re-assignable, omnidirectional identifier suitable for use as a principal identifier by authentication providers or as a unique external key by applications.

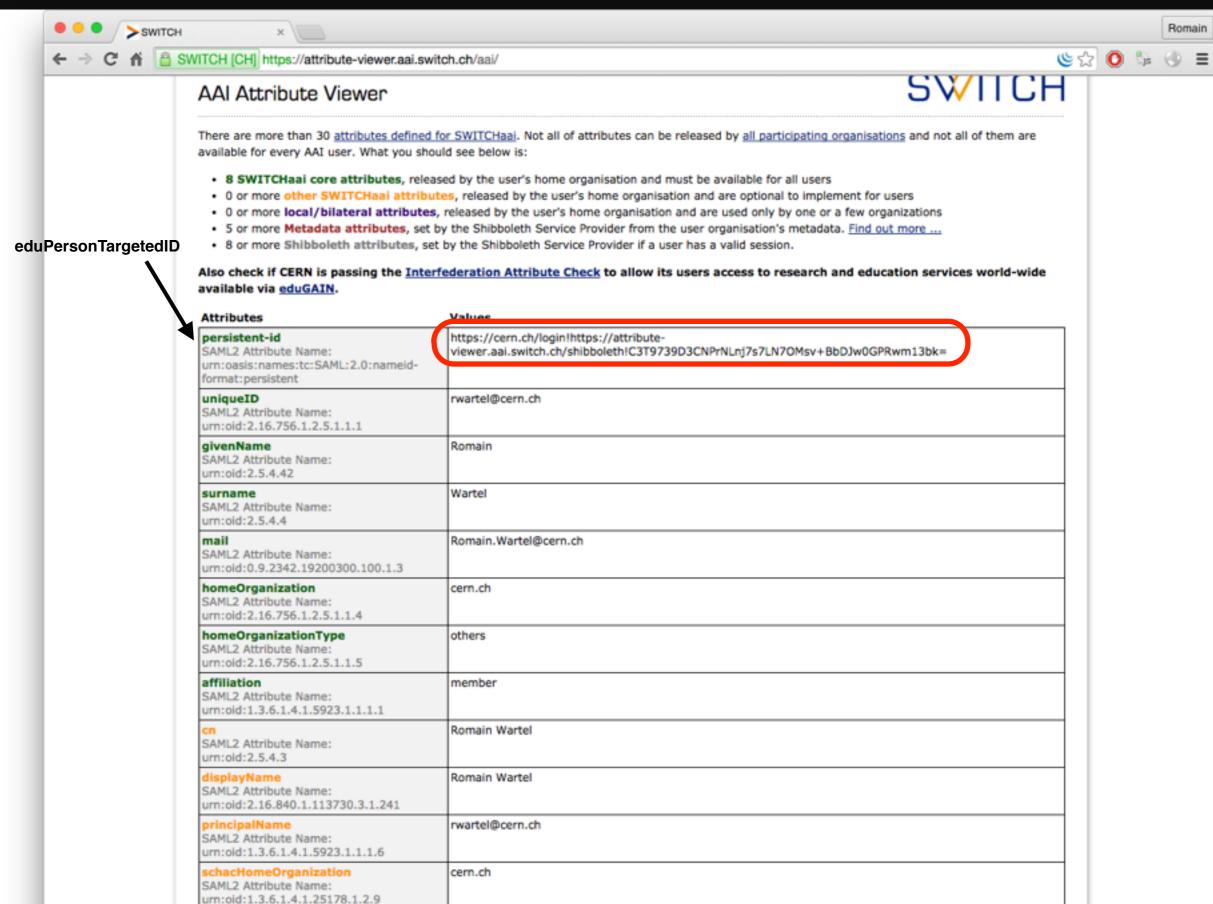
-> Perfect! But nobody implements this!







Attributes









Attributes





End-users

In case the attribute values are incorrect or a attribute was not released, please contact your local user administration. They are able to add/modify attributes to your user account, this attribute test service only displays the attributes that given to it from your authentication server. Note that the allowed attribute values are displayed as regular expressions so they do not represent the value shown to user.

Haka system administrators

An optional attribute was not released.

If attributes are not displayed/released correctly, please contact haka@csc.fi.

Released attributes

Your Identity Provider's entityId is https://cern.ch/login

You were authenticated using method: urn:oasis:names:tc:SAML:2.0:ac:classes:PasswordProtectedTransport

😱 A mandatory attribute was not released or the attribute's value is not within the accepted value range.

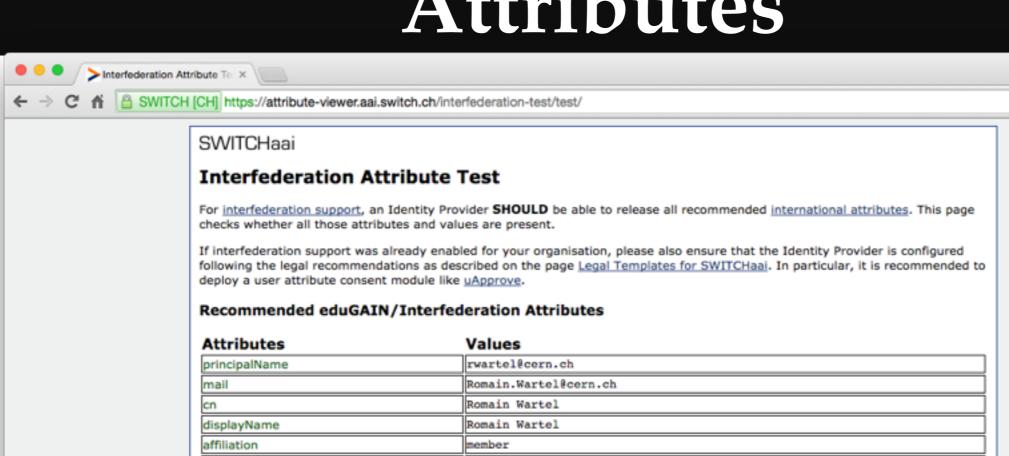
Attribute URN/OI		Value	Required Value
urn:mace:dir:attribute- def:eduPersonPrincipalName urn:oid:1.3.6.1.4.1.5923.1.1.1.6	rwartel@cern.ch	.*@	0.*
urn:mace:dir:attribute- def:eduPersonScopedAffiliation urn:oid:1.3.6.1.4.1.5923.1.1.1.9	member@cern.ch		tudent faculty staff employee member affiliate alum)@.*(; udent faculty staff employee member affiliate alum)@.*)*\$
urn:mace:dir:attribute-def:eduPers urn:oid:1.3.6.1.4.1.5923.1.1.1.1	onAffiliation member		tudent faculty staff employee member affiliate alum)(; udent faculty staff employee member affiliate alum))*\$
urn:mace:dir:attribute-def:eduPers urn:oid:1.3.6.1.4.1.5923.1.1.1.7	onEntitlement		
urn:mace:dir:attribute-def:eduPers urn:oid:1.3.6.1.4.1.5923.1.1.1.10	onTargetedID		
urn:oasis:names:tc:SAML:2.0:name format:persistent	9GwVHPSqtmWDBTUj/sVs4QF0wrYDaEG test	SscI2L6CfOFTI=!!https://cern.ch/login!!https://rr.funet.fi/attribute-	

eduPersonTargetedID



Attributes





cn	Romain Wartel	
displayName	Romain Wartel	
affiliation	member	
scoped-affiliation	member@cern.ch	
schacHomeOrganization	cern.ch	
schacHomeOrganizationType	yrn.schac.homeOrganizationType.ch.others	
persistent-id	https://cern.ch/login! https://attribute-viewer.aai.switch.ch/interfederation-test/shibboleth!	

Test Verdict



Congratulations!

jsWYKBS6114D1VlmMNeQHOrjoen7lgppKJxpsT/hbyA=

All recommended attributes for Interfederationsupport are present and their values passed the above basic tests. This is a first and important step to become Interfederation-enabled!

What this means is that your Identity Provider should now be able to communicate with most interfederated services provided it has the necessary attribute release policies configured for them and provided your IdP consumes the interfederation/eduGAIN metadata.

A final check to see if your Identity Provider is correctly configured for interfederation is to access an interfederation service like the eduGAIN Wiki

LCG

Romain

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Next steps

- Use the CERN username as the unique identifier, and push the IOTA DN in VOMS automatically
- Add support for more applications and/or experiments
- Address ongoing policy and trust issues
 - See next talk from Dave
- Use "ePPN" or better at a later stage, when the pilot is functioning
- Lobby for the implementation of the eduPersonUniqueID

