SCHAC
A common SCHema for ACademia

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Outline

Sending attributes out
the need for a common language

Sending attributes out
the need for a common language

Interoperability is the degree to which a provider and a consumer can succesfully interface having never met

Coppeto, T.: Introduction To OSID V3 for developers

Sending attributes out
the need for a common language

Interoperability is the degree to which a provider and a consumer can succesfully interface having never met

Coppeto, T.: Introduction To OSID V3 for developers

In order to achieve this, the parties need a common language with semantics and syntax that both of them understand

eduPerson

as seen from outside the US ;-)

Need
eduPerson
SCHAC
Summary

What
Who
Parts

eduPerson schema
Internet2 effort for an standard schema

- Coordinated effort in Internet2, through MACE,
  for a common higher education person schema definition

Need
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eduPerson schema
Internet2 effort for an standard schema

- Coordinated effort in Internet2, through MACE, for a common higher education person schema definition
- It is developed with inputs from the global higher education community

Need
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eduPerson schema
Internet2 effort for an standard schema

- Coordinated effort in Internet2, through MACE,
  for a common higher education person schema definition
- It is developed with inputs from the global
  higher education community
- MACE-dir Working Group is the forum for
  eduPerson related discussion, through list and calls

Need
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SCHAC
Summary

What
Who
Parts

eduPerson
The players

- Internet2

Need
eduPerson
SCHAC
Summary

What
Who
Parts

eduPerson
The players

- Internet2
  - "the advanced networking consortium in US"

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What
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eduPerson
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- Internet2
    - "the advanced networking consortium in US"
    - Provides advanced networking services

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- Internet2
  - "the advanced networking consortium in US"
  - Provides advanced networking services
  - Has more than 300 member institutions

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- Internet2
  - "the advanced networking consortium in US"
  - Provides advanced networking services
  - Has more than 300 member institutions
  - Activities take place in working groups

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The players

- Internet2
    - "the advanced networking consortium in US"
    - Provides advanced networking services
    - Has more than 300 member institutions
    - Activities take place in working groups
- Middleware Architecture Committee for Education

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What
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eduPerson
The players

- Internet2
    - "the advanced networking consortium in US"
    - Provides advanced networking services
    - Has more than 300 member institutions
    - Activities take place in working groups
- **M**iddleware **A**rchitecture **C**ommittee for **E**ducation
    - Runs MACE-dir, the directory working group, defines eduPerson

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What
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eduPerson
The players

- Internet2
  - "the advanced networking consortium in US"
  - Provides advanced networking services
  - Has more than 300 member institutions
  - Activities take place in working groups
- **M**iddleware **A**rchitecture **C**ommittee for **E**ducation
  - Runs MACE-dir, the directory working group, defines eduPerson
  - MACE has members also from outside the US

Need
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What
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What's in eduPerson
the eduPerson attributes

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What's in eduPerson
the eduPerson attributes

The eduPerson object class (200806 spec)
provides the following attributes

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What's in eduPerson
the eduPerson attributes

The eduPerson object class (200806 spec)
provides the following attributes

- eduPersonAffiliation

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What's in eduPerson
the eduPerson attributes

The eduPerson object class (200806 spec)
provides the following attributes

- eduPersonAffiliation
- eduPersonNickname

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What's in eduPerson
the eduPerson attributes

The eduPerson object class (200806 spec)
provides the following attributes

- eduPersonAffiliation
- eduPersonNickname
- eduPersonOrgDN

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What's in eduPerson
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The eduPerson object class (200806 spec)
provides the following attributes

- eduPersonAffiliation
- eduPersonNickname
- eduPersonOrgDN
- eduPersonOrgUnitDN

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What's in eduPerson
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The eduPerson object class (200806 spec)
provides the following attributes

- eduPersonAffiliation
- eduPersonNickname
- eduPersonOrgDN
- eduPersonOrgUnitDN
- eduPersonPrimaryAffiliation

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- eduPersonNickname
- eduPersonOrgDN
- eduPersonOrgUnitDN
- eduPersonPrimaryAffiliation
- eduPersonPrincipalName

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- eduPersonOrgDN
- eduPersonOrgUnitDN
- eduPersonPrimaryAffiliation
- eduPersonPrincipalName

- eduPersonEntitlement

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- eduPersonPrimaryAffiliation
- eduPersonPrincipalName

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- eduPersonPrimaryOrgUnitDN

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- eduPersonPrimaryAffiliation
- eduPersonPrincipalName

- eduPersonEntitlement
- eduPersonPrimaryOrgUnitDN
- eduPersonScopedAffiliation

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- eduPersonNickname
- eduPersonOrgDN
- eduPersonOrgUnitDN
- eduPersonPrimaryAffiliation
- eduPersonPrincipalName

- eduPersonEntitlement
- eduPersonPrimaryOrgUnitDN
- eduPersonScopedAffiliation
- eduPersonTargetedID

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- eduPersonPrincipalName

- eduPersonEntitlement
- eduPersonPrimaryOrgUnitDN
- eduPersonScopedAffiliation
- eduPersonTargetedID
- eduPersonAssurance

SCHAC
an European approach

with a world view

Why SCHAC
if we already have eduPerson?

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Why SCHAC
if we already have eduPerson?

The tf-emc^2 group found that there were enough driving needs to start working on harmonizing high education schemas

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Why SCHAC
if we already have eduPerson?

The tf-emc^2 group found that there were enough driving needs to start working on harmonizing high education schemas

- Many European countries had similar local schemas

Need
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Why SCHAC
if we already have eduPerson?

The tf-emc[2] group found that there were enough driving needs to start working on harmonizing high education schemas

- Many European countries had similar local schemas
- eduPerson needed some local extensions for Europe

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Why SCHAC
if we already have eduPerson?

The tf-emc^2 group found that there were enough driving needs to start working on harmonizing high education schemas

- Many European countries had similar local schemas
- eduPerson needed some local extensions for Europe
- There is real need for a common European schema

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- Many European countries had similar local schemas
- eduPerson needed some local extensions for Europe
- There is real need for a common European schema
  - Eduroam

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- Many European countries had similar local schemas
- eduPerson needed some local extensions for Europe
- There is real need for a common European schema
  - Eduroam
  - Bologna process

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Why SCHAC
if we already have eduPerson?

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- Many European countries had similar local schemas
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- There is real need for a common European schema
  - Eduroam
  - Bologna process
  - eduGAIN (GN2 AAI)

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How we have designed and created SCHAC
from the idea to the published document

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Work was started creating an open SCHAC workgroup
seeded with members of tf-emc^2 from each country at hand

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- Each country offered their schema

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Work was started creating an open SCHAC workgroup
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- Each country offered their schema
- Common or useful attributes where selected

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- Each country offered their schema
- Common or useful attributes where selected
- Care was taken that URN values where used for
  namespace delegation

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How we have designed and created SCHAC
from the idea to the published document

Work was started creating an open SCHAC workgroup
seeded with members of tf-emc^2 from each country at hand

- Each country offered their schema
- Common or useful attributes where selected
- Care was taken that URN values where used for namespace delegation
- When the group was happy enough, an schema definition was first published

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How can SCHAC can be influenced
adding attributes to the schema

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How can SCHAC can be influenced
adding attributes to the schema

Anyone in the group can propose new attributes

Need
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How can SCHAC can be influenced
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Anyone in the group can propose new attributes

- Come up with a use case

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How can SCHAC can be influenced
adding attributes to the schema

Anyone in the group can propose new attributes

- Come up with a use case
- Have a discussion

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How can SCHAC can be influenced
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Anyone in the group can propose new attributes

- Come up with a use case
- Have a discussion
- The attributes are inserted in the experimental branch

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Anyone in the group can propose new attributes

- Come up with a use case
- Have a discussion
- The attributes are inserted in the experimental branch
- Test for six months

Need
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How can SCHAC can be influenced
adding attributes to the schema

Anyone in the group can propose new attributes

- Come up with a use case
- Have a discussion
- The attributes are inserted in the experimental branch
- Test for six months
- Accept or reject

What is there in SCHAC
attributes and object classes

Need
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Summary

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What is there in SCHAC
attributes and object classes

The group followed the document

"Higher-Education Person: A comparative Analysis of
Collaborative Public LDAP Person Object Classes
in Higher Education"

Need
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What is there in SCHAC
attributes and object classes

SCHAC IAD 1.4

What is there in SCHAC
attributes and object classes

SCHAC IAD 1.4

● schacPersonalCharacteristics

> ### Personal characteristics (1)
>
> ● schacSn1
>
> ● schacSn2
>
> ● schacPersonalTitle
>
> ● schacMotherTongue

Need
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What is there in SCHAC
attributes and object classes

SCHAC IAD 1.4

● schacPersonalCharacteristics

Personal characteristics (2)

- ● schacGender
- ● schacDateOfBirth
- ● *schacYearOfBirth (experimental)*
- ● schacPlaceOfBirth
- ● schacCountryOfCitizenship

Need
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SCHAC
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What is there in SCHAC
attributes and object classes

SCHAC IAD 1.4

- schacPersonalCharacteristics
- schacContactLocation

Contact / Local information

- schacHomeOrganization
- schacHomeOrganizationType
- schacCountryOfResidence
- schacUserPresenceID

What is there in SCHAC
attributes and object classes

SCHAC IAD 1.4

- schacPersonalCharacteristics
- schacContactLocation
- schacEmployeeInfo

Employee information

- schacPersonalPosition

Need
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SCHAC
Summary

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What is there in SCHAC
attributes and object classes

SCHAC IAD 1.4

- schacPersonalCharacteristics
- schacContactLocation
- schacEmployeeInfo
- schacLinkageIdentifiers

Linkage identifiers

- schacUniqueCode
- schacPersonalUniqueID

Need
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What is there in SCHAC
attributes and object classes

SCHAC IAD 1.4

- schacPersonalCharacteristics
- schacContactLocation
- schacEmployeeInfo
- schacLinkageIdentifiers
- schacEntryMetadata

Entry metadata

- schacExpiryDate

Need
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Summary

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What is there in SCHAC
attributes and object classes

SCHAC IAD 1.4

- schacPersonalCharacteristics
- schacContactLocation
- schacEmployeeInfo
- schacLinkageIdentifiers
- schacEntryMetadata
- schacEntryConfidentiality

Confidentiality / AR / Visibility

- schacUserPrivateAttribute

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SCHAC IAD 1.4

- schacPersonalCharacteristics
- schacContactLocation
- schacEmployeeInfo
- schacLinkageIdentifiers
- schacEntryMetadata
- schacEntryConfidentiality
- schacUserEntitlements

Authorization, entitlements

- schacUserStatus

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SCHAC IAD 1.4

- schacPersonalCharacteristics
- schacContactLocation
- schacEmployeeInfo
- schacLinkageIdentifiers
- schacEntryMetadata
- schacEntryConfidentiality
- schacUserEntitlements
- schacGroupMembership

Group information *recently graduated*

- schacProjectMembership
- schacProjectSpecificRole

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Where can you find SCHAC
the official web page and maillist

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Where can you find SCHAC
the official web page and maillist

- http://www.terena.org/activities/tf-emc2/schac.html

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Where can you find SCHAC
the official web page and maillist

- http://www.terena.org/activities/tf-emc2/schac.html
- schac@terena.org

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Who is using SCHAC
the SCHAC user community

Communities that use SCHAC (or parts of it) include

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- GEANT IdP (GIdP)

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Who is using SCHAC
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Communities that use SCHAC (or parts of it) include

- GEANT IdP (GIdP)
- Haka(.fi)

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Communities that use SCHAC (or parts of it) include

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- Haka(.fi)
- WYAF.dk

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Communities that use SCHAC (or parts of it) include

- GEANT IdP (GIdP)
- Haka(.fi)
- WYAF.dk
- Australian Access Federation

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Who is using SCHAC
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Communities that use SCHAC (or parts of it) include

- GEANT IdP (GIdP)
- Haka(.fi)
- WYAF.dk
- Australian Access Federation
- RedIRIS uses SCHAC internally and
  recommends its use in Spain

Intentionally non exhaustive

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Who can influence SCHAC
the SCHAC architect community

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We like to think we are an open group

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We like to think we are an open group

- The tf-emc^2 work group

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We like to think we are an open group

- The tf-emc^2 work group
- The SCHAC maillist members

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We like to think we are an open group

- The tf-emc^2 work group
- The SCHAC maillist members
- Australian auEduPerson WG

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Who can influence SCHAC
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We like to think we are an open group

- The tf-emc^2 work group
- The SCHAC maillist members
- Australian auEduPerson WG
- Maybe the grid community

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Evolving SCHAC
some ideas for the future

- Experimental attributes

Experimental branch

A *good thing^{tm}*

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Evolving SCHAC
some ideas for the future

- Experimental attributes

Experimental branch

A *good thing^{tm}*
It is useful for testing new attributes without disturbing the stabilized schema and for work in progress.

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Evolving SCHAC
some ideas for the future

- Experimental attributes
- Student information

Populating an empty branch

The Bologna process will move lots of them around.

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Evolving SCHAC
some ideas for the future

- Experimental attributes
- Student information
- Values namespaces

URN registry

Setting up a distributed URN registry so, each one is responsible for their delegated namespaces.

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Why
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Evolving SCHAC
some ideas for the future

- Experimental attributes
- Student information
- Values namespaces
- New attributes

Expanding the schema

- Fine grained relationship description
- Importing some good ideas from down under

Summary

- We have a nice schema

Summary

- We have a nice schema
- It provides a good base line for interoperability

Summary

- We have a nice schema
- It provides a good base line for interoperability
- You can influence its evolution

Thank you
Questions?

answers not assured