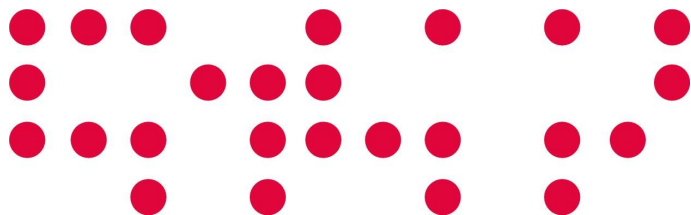


Consolidating SCHAC

Schema and document evolution

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- 1. Evolution of SCHAC document**
2. 5th TF-EMC2 Zagreb
3. 6th TF-EMC2 Catania
4. 7th TF-EMC2 Málaga
- 5. Schema changes from last meeting**
6. 4.2.4. *schacUserPresenceID*
7. 4.2.1. *schacHomeOrganization*
8. 4.5.2. *schacUUID*



- **5th TF-EMC2, Jan 2006, Zagreb - v: 1.1.0b**
 - No OID assigned. (RedIRIS 1.3.6.1.4.1.7547.4.6 used)
 - No URN assigned. (urn:SHACPREFIX: used)
 - The list of possible options was:
 - urn:mace:dir:attribute-def:schac*
 - urn:mace:terena.nl:schac
 - urn:mace:terena.eu:schac
 - urn:geant:schac
 - urn:geant:terena:schac
- **6th TF-EMC2, May 2006, Catania - v: 1.2.0**
 - February - v: 1.1.0
 - Added RFC 2252 definition to all attributes
 - Changed name from *schacPersonalPublicUniqueID* to *schacPersonalUniqueCode*

- February - v: 1.1.0 (continuation)
 - Added ORDERING matching rule to
 - *schacPersonalUniqueCode*, *schacPersonalUniqueID*
 - *schacDateOfBirth*, *schacPlaceOfBirth*
 - *schacSn1*, *schacSn2*
 - Added SUBSTR matching rule to
 - *schacDateOfBirth* (numericStringOrderingMatch)
 - Changed EQUALITY matching rule to
 - *schacUserPresenceID* (to caseExactMatch)
 - Changed SUBSTR matching rule to
 - *schacUserPresenceID* (to caseExactSubstringsMatch)
 - *schacUserPrivateAttribute* (to caseIgnoreIA5SubstringsMatch)
 - Changed SYNTAX
 - *schacCountryOfCitizenship* (to Directory String)
 - *schacExpiryDate* (to Generalized Time)

- March - v: 1.1.1 - v: 1.1.2
 - TERENA OID: **1.3.6.1.4.1.25178**
 - TERENA URN: **urn:mace:terena.org**
 - Leif Johansson (su.se) proposal:
 - split *schacExpiryDate* in two attributes:
schacNotValidBefore and *schacNotValidAfter*
- May - v: 1.2.0
 - TERENA URN registry: **<http://www.terena.nl/registry/terena.org/>**
 - Common rule to obtain the URN component from the schac attribute
 - *schacHomeOrganizationType* *:schac:homeOrganizationType:*
 - *schacPersonalPosition* *:schac:personalPosition:*
 - *schacPersonalUniqueCode* *:schac:personalUniqueCode:*
 - *schacPersonalUniqueID* *:schac:personalUniqueID:*
 - *schacUserStatus* *:schac:userStatus:*
 - Changed *schacUserPresenceID* SYNTAX from URN to URI

- 7th TF-EMC2, Oct 2006, Málaga - v: 1.3.0b
 - June
 - Proposal: Common vocabularies - Mikael Linden (tut.fi)
 - draft-zeilenga-ldap-uuid-06.txt -> RFC 4530
 - Lightweight Directory Access Protocol (LDAP) - entryUUID Operational Attribute
 - September
 - Changed *schacHomeOrganization* SYNTAX OID
 - October
 - Need to decide definition of *shacUUID* attribute

- Changes from last meeting
 - 4.2.1. *schacHomeOrganization*
 - 4.2.4. *schacUserPresenceID*
 - 4.5.3. *schacUUID*

- **Syntax mistake**

- Thanks to Liborio Revilla (ehu.es) and Ismo Aulaskari (helsinki.fi) we discovered it
- Changed from IA5 String (.26) to Directory String (.15)

- **RFC 2252 Definition**

- (schacAttributeType:9

NAME

'schacHomeOrganization'

DESC

'Domain name of the home organization'

EQUALITY

caseIgnoreMatch

SUBSTR

caseIgnoreSubstringsMatch

SINGLE-VALUE

SYNTAX

1.3.6.1.4.1.1466.115.121.1.15)

- **Problems using URN**

- Use of invalid characters - RFC 2141 - URN Syntax
 - *schacUserPresenceID* = urn:SCHACPREFIX:presence:
sip:alice@atlanta.com?subject=project%20x&priority=urgent
- Solution: Change format from URN to URI
 - *schacUserPresenceID* =
sip:alice@atlanta.com?subject=project%20x&priority=urgent

- **Portions of URI strings are case sensitive**

- Example
 - *schacUserPresenceID* =
h323:pepe@myweb.fi:8080;param1=/config/MyConfig.cfg
- Solution: Change - thanks to Kurt D. Zeilenga (openldap.org)
 - From caseIgnoreMatch to caseExactMatch
 - From caseIgnoreSubstringsMatch to caseExactSubstringsMatch

- RFC 2252 Definition

- (schacAttributeType:12

NAME

'schacUserPresenceID'

DESC

'Used to store a set of values related to the network presence'

EQUALITY

caseExactMatch

SUBSTR

caseExactSubstringsMatch

SYNTAX

1.3.6.1.4.1.1466.115.121.1.15)

- **Mistake in an example - thanks to Pål Axelsson (uu.se)**
 - Use of invalid character - RFC 2141 - URN Syntax in
 - *schacUserStatus* = urn:mace:terena.org:userStatus:
uma.es:webmail:active?**ttl**=20061016235959
- **Solutions**
 - Change invalid “?” character
 - Valid characters: () + , - . = @ ; \$ _ ! * ' "
 - We decided: change from “?” to “+”
- **Example**
 - *schacUserStatus* = urn:mace:terena.org:**userStatus**:
uma.es:webmail:active**+**ttl=20061016235959

- **Problem - 2 options**

- Option 1

- RFC 4530 - The LDAP *entryUUID* operational attribute

- draft-zeilenga-ldap-uuid-06.txt

- EQUALITY uuidMatch
 - ORDERING uuidOrderingMatch
 - SYNTAX 1.3.6.1.1.16.1 (UUID)

- Option 2

- EQUALITY caseIgnoreMatch
 - ORDERING caseIgnoreOrderingMatch
 - SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 (directoryString)

- **Solution**

- We need to decide here
 - DELETE schacUUID ;)

- **With your comments**
 - I will modify SHAC document
 - We will release
 - The official 1.3.0 document version
 - The official 1.3.0 LDAP schema
- **Available from:**
 - <http://www.terena.nl/activities/tf-emc2/schac.html>