

## Minutes of the 7th TF-LSD Meeting, October 27 2002 in Stockholm

### Participants

Axelsson, Pål	Uppsala University
Chadwick David	University of Salford
Dors Nathan	University of Washington
Florio Licia	TERENA
Gietz, Peter	DAASI International
Gomez, Isabel Barroso	University of Oslo
Jakobsen, Bård	University of Oslo
Kalogeras, Dimitrios	GRNET
Klingenstein, Ken	Internet2
Kuusisto Henry	Funet/CSC
Lenggenhager, Thomas	SWITCH
Linden Micael	Funet/CSC
Lopez, Diego	RedIRIS
Lund, Anders	UNINETT
Macias, Jose Manuel	RedIRIS
Milinovic, Miroslav	SRCE
Olsen Cato	UNINETT
Penezic, Dubravko	SRCE
Robiette Alan	JISC
Salomon David	JISC/UKERNA
Sova Milan	CESNET
Stromme Jon	UNINETT
Verschuren Ton	SURFnet
Wolniewicz, Maja	NCU

### Apologised:

Van Der Merwe, Chris      ARNES

### Agenda

1. Welcome
2. Report on Adding Certificate Retrieval to OpenLDAP project (David)
3. Status of Deliverables
  - Privacy document (Walter)
  - CIP White Pages service (Ton)
  - Overview of all deliverables
4. LDAP update (Anders)
5. Report on DEEP survey (Peter)
6. Progress on Schema Registry (Peter)
7. TF-LSD future

## **1. Welcome**

Peter Gietz welcomed the participants to the last TF-LSD meeting. He talked about the current status of the deliverables; a lot still needs to be done to have them ready. Peter complained because of lack of collaboration of the group and invited people to co-operate writing the documents in this last phase.

Ton Verschuren's presentation was added to the agenda.

## **2. Report on Adding Certificate Retrieval to OpenLDAP project, David Chadwick**

David gave a presentation about the current status of Adding Certificate Retrieval to OpenLDAP project. The project is going well and it is on schedule. A deliverable with the technical specifications has been circulated and feedbacks are requested in a short time. The implementations phase is already started.

There has been a shift in the project and a new idea based on Peter's draft on X.509-Certificate object class has been designed and will be implemented, namely a X.509 Certificate Parsing Server (XPS), which to the client acts as a normal certificate, an intermediary server that sits between an LDAP administrative client and LDAP server. It does not sit between an LDAP retrieval client and LDAP server. Its purpose is to extract certificate and CRL attributes from Add and Modify commands and to create subordinate certificate and CRL entries beneath the target entry that was destined to hold the certificate or CRL.

## **3. Status of the deliverables**

### **3.1. Deliverable C: Privacy Documents, Walter Tvester**

One of the objectives of TF-LDS was the production of a document on privacy issues of the planned White Pages indexing service. A preliminary version of that document had been sent by Peter quite some time ago, and Walter gave his comments to it in his presentation.

The European Commission has published in 1995 a law, known as Directive 95/46/EC, on the protection of individuals with regard to the processing of personal data and on the free movement of such data, the most relevant text for the privacy document. Walter provided an overview about the law and national implementations.

This privacy document is very important, and Walter as well as Miroslav agreed to help Peter with it.

### **3.2. Deliverable B: CIP White Pages service, Ton Verschuren on behalf of Henny Bekker**

Henny tested DESIRE CIP software, LIMS, IDDS and the results were shown by Ton. The conclusions of this test are reported below:

- The interoperability study on exchanging TIOs between Desire and Lims need to be finalized. The Lims LDAP/TIO-Index server performs better than the Desire LDAP/TIO Index server with a factor of 100
- The Lims LDAP/TIO-Index server performs as good as Innosoft IDDS v4.51

- Complex LDAP filters with boolean operators or filter types like 'approx' are not supported by the Lims and Desire LDAP/TIO-Index server. It was asked whether working on directory indexing is still important. I2 is doing directory of directories (they have a centralized system), but this solution seems to have some problems as well.

Peter pointed out that the DESIRE software was only a proof of concept and that for this reason the results are not really comparable.

### 3.3. Overview on all the deliverables, Peter Gietz

The table below describes the status of all the deliverables at the moment.

	Work items and Deliverables	Status
A.	Establishing the Task Force Information site on the TERENA server.	Done
B.	Investigation of the various directory-indexing implementations based on the Common Indexing Protocol (CIP) and their interoperability.  The focus of the deliverable was at the end on performances. <b>Henny Bekker</b> from SURFnet will make the results available and finish the deliverable by adding some work on interoperability	Ongoing
C.	Study on the privacy issues arising with the public pan-European White Pages service. Draft is out since quite some time. <b>Peter Gietz, Miroslav Milinovic, Walter Tveter</b> will work on the text to finish it up.	Ongoing
D.	Definition of a European wide White Pages service based on one or more CIP implementations. Parts of the current Privacy draft contain a description of such a service. <b>PeterG</b> will extract that and finalize the deliverable	Ongoing
E.	Setup of an experimental service for a CIP based European wide White Pages index service as defined by the Task Force. - drafting requirements to the service  <a href="http://www.dante.net/nameflow/tio/">http://www.dante.net/nameflow/tio/</a> is the results	Done
F.	Investigate the possibilities to reference between the X.521 naming and the Domain Component naming and the referral mechanisms to set up a Directory Information Tree between LDAP servers via distribution of knowledge information. The results of the DIRECT Project and the current respective IETF efforts are base for this item.  <b>Licia</b> will wrap up the deliverable, by the end of January.	Ready, but it needs to be wrapped up.

G.	Working out specification/requirements for the technical framework of the LDAP based storage; distribution and validation of certificates in an European wide LDAP based Public Key Infrastructure (PKI) for the research community.  Davids specification on XPS, as well as Peter's IETF Draft can interpreted as this deliverable	Ongoing
H.	Set up of an experimental service, for an imaginary institution, for publishing and distribution of certificates targeting future implementation among the Certification Authorities inside the European research network (tentatively - to be run by SURFnet) Davids work on implementing XPS, as well as Peter's Implementation of the IETF Draft can interpreted as work on this deliverable.	Ongoing
I.	Investigating the usability of services based on the new evolving directory related standards: It seems that no work has been done on this. Either this deliverable will be cancelled or replaced a report about Stigs new ideas to use LDAP (as presented by Anders, see below)	Not Ready cancelled?
J.	If needed, propose a revised version of the TF-ToR The group doesn't feel the need	cancelled
K.	Prepare a proposal to the TTC on follow-on activities based on recent developments in directory based network and information services A follow up activity is not planned right now. A more general Middleware Initiative might be started next year	cancelled
L.	Contributing to the standardization process on LDAP and Global Directory services through the liaison with IETF, ITU, GGF and CEN standardization activity.	Done
M.	Maintaining mailing list(s) for communication between and with the TF members	Done

It was agreed to finalize all ongoing deliverables until end of January 2003.

#### 4. LDAP update, Anders Lund

Anders showed how LDAP could be used to manage the streaming archive, as it would make easy the creation of a distributed solution. His presentation was focused mainly on Electronic Streaming Guide (ESG <http://www.uninett.no/multimedia/streamingguide/>) and indexing. LDAP can be used to search for people, storing for example the position data as LDAP entries.

It was discussed whether a report on this work can be made to deliverable I. This will have to be decided by Stig. Otherwise Deliverable I will be cancelled.

## 5. Report on DEEP survey, Peter

Peter gave a presentation of the report on the results of the DEEP questionnaire, which is now published at <http://www.daasi.de/projects/DEEP> and : <http://www.terena.nl/tech/task-forces/tf-isd/> (Projects and Reports).

A summary of the report is attached below:

- A considerable number of participants (18) could be found that took their time to fill in the quite long questionnaire. The participants quite well represent the aimed at community and the combination of single universities (11) and of NRNs and similar organisations (7) provide a wide enough spectrum of participants. The participants showed great expertise in the field, and they made valuable proposals that should be followed up.
- Interoperability through common schema is seen as needed by 88% of the participants.
- eduPerson does not fulfil all needs of the European community.
- 11 participants favour a continuation of DEEP, not one explicitly said that they did not favour such a continuation
- White pages service, Authentication server, email user management and user log in management are the most important directory applications and should definitely be taken into account when continuing DEEP
- 20 different attribute proposals were made, nearly all of them should be taken into consideration when defining standardised schema for the European community.
- The Major proposed extensions can be generally grouped into two groups:
  - professionalPerson (cv, interests, expertise)
  - networkIdentity (or aaaPerson) - supposedly originated from recent development of AAA issues and network identity (MS Passport and Liberty) which is not covered by eduPerson (except eduPersonEntitlement). eduPerson started 3 years ago and there was not much attention then to AAA and Identity - now people want this information

## 6. Progress on Schema Registry, Peter

Peter said that the project is moving forward, although no deliverable has been finalized yet. The proposal foresees 11 deliverables. The Web page has been set-up at <http://www.daasi.de/services/SchemaReg/>

The overall design has been made and some implementation work has already started for a proof of concept of this design. In terms of completed deliverables, the project is a bit behind, but in terms of first implementation work work is far ahead.

The following deliverables are currently work in progress and should be finalized some time in January:

- B survey of previous work (most of the work processed)
- C definition of a metadata format (almost done)
- D policy definition (started)
- E design of the software (almost done)

Although not even the start was due, implementation work has already begun to provide Proof of concept.:

F Implementation of search and browse interface (following has been done:)

- configured an openLDAP server for schema attributes and metadata currently envisaged
- configured a webgateway to access the information see:  
<http://rhea.directory.dfn.de/cgi/w2l.pl?lang=en;uri=ldap://helena.directory.dfn.de:8899/cn=schemareg>
- developed software for converting RFC BNF to LDIF
- tested this with a rather comprehensive and complex draft:  
<ftp://ftp.ietf.org/internet-drafts/draft-bergeson-uddi-ldap-schema-01.txt>
- developed software for doing schema syntax checks

Only the development of the MIME interface (Deliverable G) has not been started yet. Peter said that he would try to finalise the two deliverables due so far as soon as possible.

## 7. TF-LSD future, Peter

A discussion about the future of TF-LSD was opened by Peter This task force is officially concluded in October 2002. A final report will be produced shortly to describe the results of the task force. Licia said that she was in favor of a follow-up of TF-LSD, but it should be decided clearly what it should be done. Peter said that a follow-up would be possible and interesting, but he would not be the chairman anymore.

The following possibilities have been discussed:

- To have a new forum to discuss about Schema Registry, Deep, OpenLDAP projects and privacy issues. This would not really be a task force, as these projects have already a lifetime and a schedule. Thus Ken Klingenstein suggested having a wider forum to discuss about Middleware in general. In this view TF-AACE would be one the activities in this forum. This option has been warmly welcomed, but it requires a long discussion to define what the objectives of this group should be. It was decide to postpone the discussion during the TF-AACE meeting that will be held in Zagreb in occasion of the TERENA Conference (19-22 May, 2003)
- To merge TF-LSD with TF-AACE. Diego said that some of the TF-LSD deliverables can be covered by TF-AACE, but others are completely different, so a discussion on how to proceed and a re-charter of TF-AACE would be necessary. In this case Diego would ask for a co-chair.

The first choice was preferred so it was decided for the moment to close TF- LSD and finalise the deliverables. TF-AACE will proceed in autonomous way, in according to its schedule. The TF-LSD mailing list will be kept active to allow for exchange of documents and to discuss the above-mentioned projects.

This was discussed more in detail during the TF-AACE meeting.

## Conclusions

TF-LSD has been an important activity of great interest, even if the results are not yet finished. Peter and Licia will try to wrap up and put on-line what has been done. TF-LSD mailing list will be kept active to encourage the discussion about LDAP and to make the result of running project (OpenLDAP and SchemaRegistry) available.

## Actions:

- **Henny Bekker** from SURFnet will make the results of his experiments available. and finish the deliverable B by adding some work on interoperability
- **Peter Gietz, Miroslav Milinovic, Walter Tvetter** will work on the Privacy text (Deliverable C) to finish it up.
- **PeterG** will extract parts of the current Privacy draft that contain a description of the indexing service and finalize the deliverable D
- **Licia** will wrap up the deliverable F, by the end of January.
- **Licia** will ask Stig about Deliverable I