

Deliverable 11.1

Test Scenario Report

DAM-LR

011841

Distributed Access Management for Language Resources

**implemented as
Specific Support Action**

Contract Number: *011841*

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Deliverable: D11.1

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Date: 1.07.2007 (approved at the DAM-LR Meeting in Leiden 18.9)

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1 Introduction

In this report we define the tests that will be carried out at the end of the DAM-LR project to proof its functioning in accordance with the project goals¹. The tests will be carried out according to the three main dimensions of the project:

1. demonstrate the integrated metadata domain based on IMDI
2. demonstrate the integrated domain of unique and persistent resource IDs based on the Handle System
3. demonstrate the integrated authentication and authorization domain based on the Shibboleth middleware

All servers need to interact based on valid and PKI signed certificates.

2 Metadata

All members are servicing IMDI metadata for harvesting, either by offering an IMDI corpus tree for harvesting via HTTP or by offering IMDI metadata records for harvesting via the OAI PMH. Lund and MPI are actually harvesting all available IMDI metadata and offer metadata search and browsing facilities in their portal. INL offers a portal with IMDI browsing facility.

Testing is done at the level of compatibility and metadata repository synchronicity.

- **Availability and compatibility.** Are the DAM-LR partners able to harvest (and digest) each other's IMDI records? How high is the percentage of records that can not be parsed? Etc.
- **Metadata content synchronicity.**
 - Can we find certain resources with the respective metadata search facility (Lund, MPI)?
 - Can we browse to certain resources if we know its position in the archive corpus tree (Lund, INL, MPI)?

Both tests require synchronized metadata repositories and correct browsing/harvesting URLs. The resources for the test should be new, so that we can test the correct harvesting.

3 Handle System

The correct functioning of the Handle System can be tested by resolving the handles of a few resources. Here we should use the same resources that are used in the Shibboleth access test (see below).

- Test the resolving process of every archive by taking a handle of a few resource housed by the different archives.
- Test the secondary resolving process by simulating the not-functioning of the primary ones (shut these down).

4 Shibboleth System

Shibboleth testing means both testing the authentication and authorization aspects. The relevant questions to be addressed by the tests are:

- Are the certificates valid? Test by purging accepted certificates from the browser and accessing a Shibboleth protected resource.
- Every archive should publish 3 access test resources, and have a test account usable by DAM-LR testers. The we need to test the following scenarios:
 - The resource should be accessible to all federation members
 - The resource should be accessible only to the DAM-LR test user
 - The resource should be accessible only to the DAM-LR test user of the hosting archive
 - The resource should not be accessible

¹ Due to the enormous funding problems we will not include SOAS in these proofs. The problems were already recognized at the mid-term review meeting.

- An application should only be accessible by the DAM-LR test users

5 Test matrix

The following matrix summarizes the test cases mentioned in previous chapters. The left column describes the test. The column Source is the party that is running the test and the columns below Target represent the resources that are accessed by the tester. Tests are complete when every box between Source and Target is checked by the testers. Tests can be distributed between members of the federation according to the matrix so no double tests are necessary.

TEST CASE	Source	Target		
		MPI	Lund	INL
Certificates				
Test certificates for validity. Open the certificate with your browser and verify if it has a valid CA and date.	Any			

Shibboleth

Try to access resources with non-existing accounts. Open the resource at the target server. Select you own organisation within the WAYF selection and verify that access is denied when entering invalid credentials.	MPI			
	Lund			
	INL			
Try to access metadata with existing account. Choose your own institute and enter your own valid credentials. The test page must show now.	MPI			
	Lund			
	INL			
Try to access several resources which require(s) extra metadata attribute(s).	MPI			
	Lund			
	INL			

Handle System

Access a resource through the target's Handle proxy.	Any			
Access a resource by using the target's secondary handle server	Any			
Access a resource by using hdl.handle.net as proxy. For example: http://hdl.handle.net/10032/00-22AB-6186-1B9F-4D60-F	Any			

Shared metadata domain

Harvest a part of a participating partners metadata.	Any			
Check harvested documents for validity. Is the document valid XML. Does the document comply with the schema?	Any			
Browse known metadata	Any			
Search for known metadata using the search facility	Any			
		MPI	Lund	INL