



CLARIN

AAI Requirements

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What is CLARIN



The CLARIN project is a large-scale pan-European collaborative effort to coordinate and make language resources and technology available and readily usable for Language & SSH (Social Sciences & Humanities) researchers.

- Resources: Lexica, text corpora, multi-media/multi-modal recordings, ...
- Technology: applications & (web-)services as parsers, tokenizers, speech recognizers & segmentators, ...

CLARIN overview

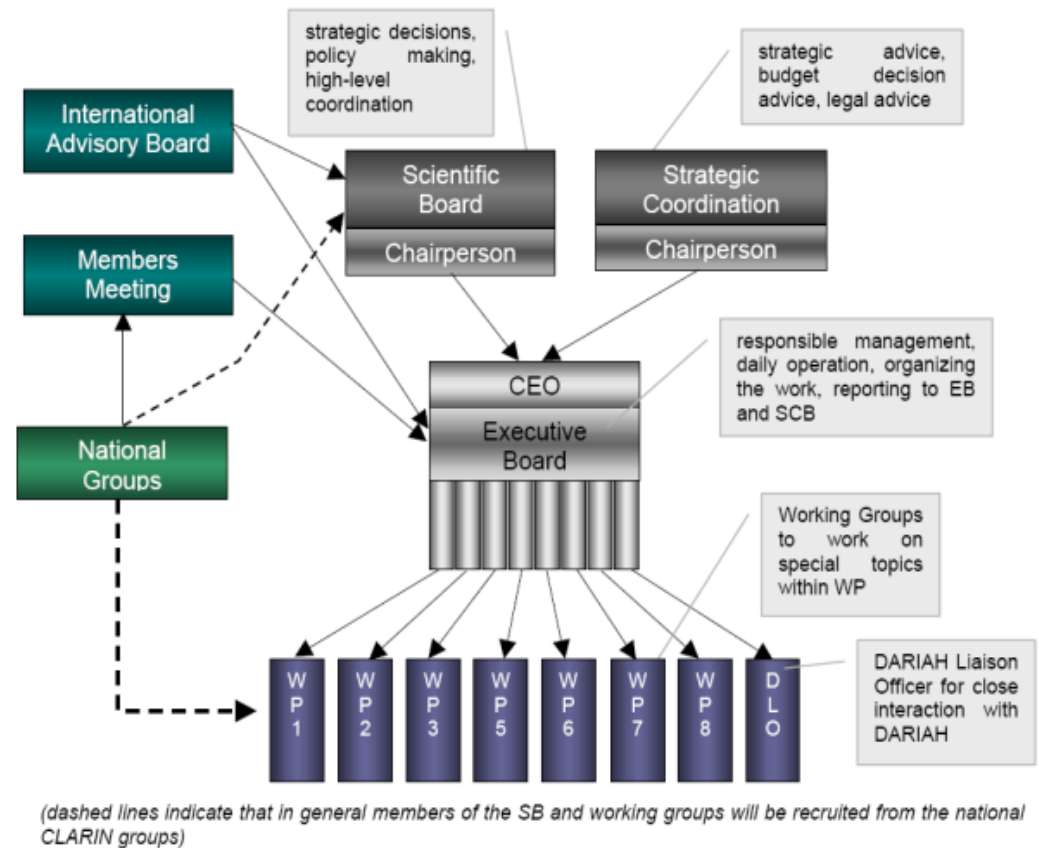


- CLARIN is an EU Infrastructure project with 4.2 ME funding for a 3 year preparatory phase
- Additional funding from national governments (at this moment at least 7 ME + 9 ME)
- The CLARIN consortium has now 32 partners from 26 EU countries
- The CLARIN community has 151 member organizations in 32 countries (mostly from NLP organizations)
- CLARIN is based on earlier initiatives with many participants: LangWeb, EARL, TELRI, LIRICS and more recent DAM-LR

CLARIN Organization



WP1	Management & Coordination, Steven Krauwer, OTS U. Utrecht NL
WP2	Technical Infrastructure, Peter Wittenburg, MPI Nijmegen NL
WP3	Humanities Overview, Tamas Varadi, Hung Ac. Sc., Hun
DLO	DARIAH Liaison, Martin Wynne, Oxford Univ. UK,
WP5	Language Resources & Technology Erhard Hinrichs, U. Tuebingen, Ger
WP6	Dissemination, Dan Crista, U. Iasi Rom
WP7	IPR and Business Models, Kimmo Koskiennemie, Univ. Helsinki Fin
WP8	Organizational Agreements, Bente Maegaard, Univ. Copenhagen, Dk



Time plan



- 2008 - 2010 Preparatory Phase
 - Limited set of federated centers (10+)
 - Showcases, demonstrators
 - WP2: Make cost estimates for infra. maint.
 - WP8: Investigate embedding in national funding schemes for construction phase & maintenance
- 2010 - 2020 Construction Phase
 - No important European funding
 - Depend on national project commitments
- 2020? - ... Maintenance Phase

CLARIN as a SP Organization



- CLARIN sees itself developing into a SP organization offering:
 - Language Resources in its broadest sense
 - Corpora: (annotated) texts, multi-media/multi-modal recordings, etc.
 - Tools & web-services
 - Multi-media & text annotation tools
 - Parsers, tokenizers, entity recognizers, ASR components
- Infrastructure services:
 - registries to find resources, tools & services
 - Where needed typical infrastructural services like: PID service

CLARIN “Holy Grail” Use Case I



CLARIN Executive Board on a “typical” quest

CLARIN “Holy Grail” Use Case II



- A researcher authenticates at his/her own organization and creates a “virtual” collection of resources from different repositories.
- He does this on the basis of browsing a catalogue, searching through metadata, or searching in resource content.
- He is then able to use a workflow specification tool and process this virtual collection with possibly a mix of home grown and remote service components.
- Resulting data can be added to the origin repositories with proper access rights and the “virtual” collection specification can be stored for future reference.
- For our domain this is very ambitious and challenging, but even a partial realization is worthwhile!

CLARIN AAI Scenarios



- SSO with a web-browser
- SSO with a locally installed application
- Delegation with a web application
- Delegation in a workflow of web-service chains
- Access to GRID resources

SSO with a web client



- User visualizes resources from many different resource providers
- Not of much use for complicated processing of distributed resources
- Although some processing may be implemented in applets

SSO with local application



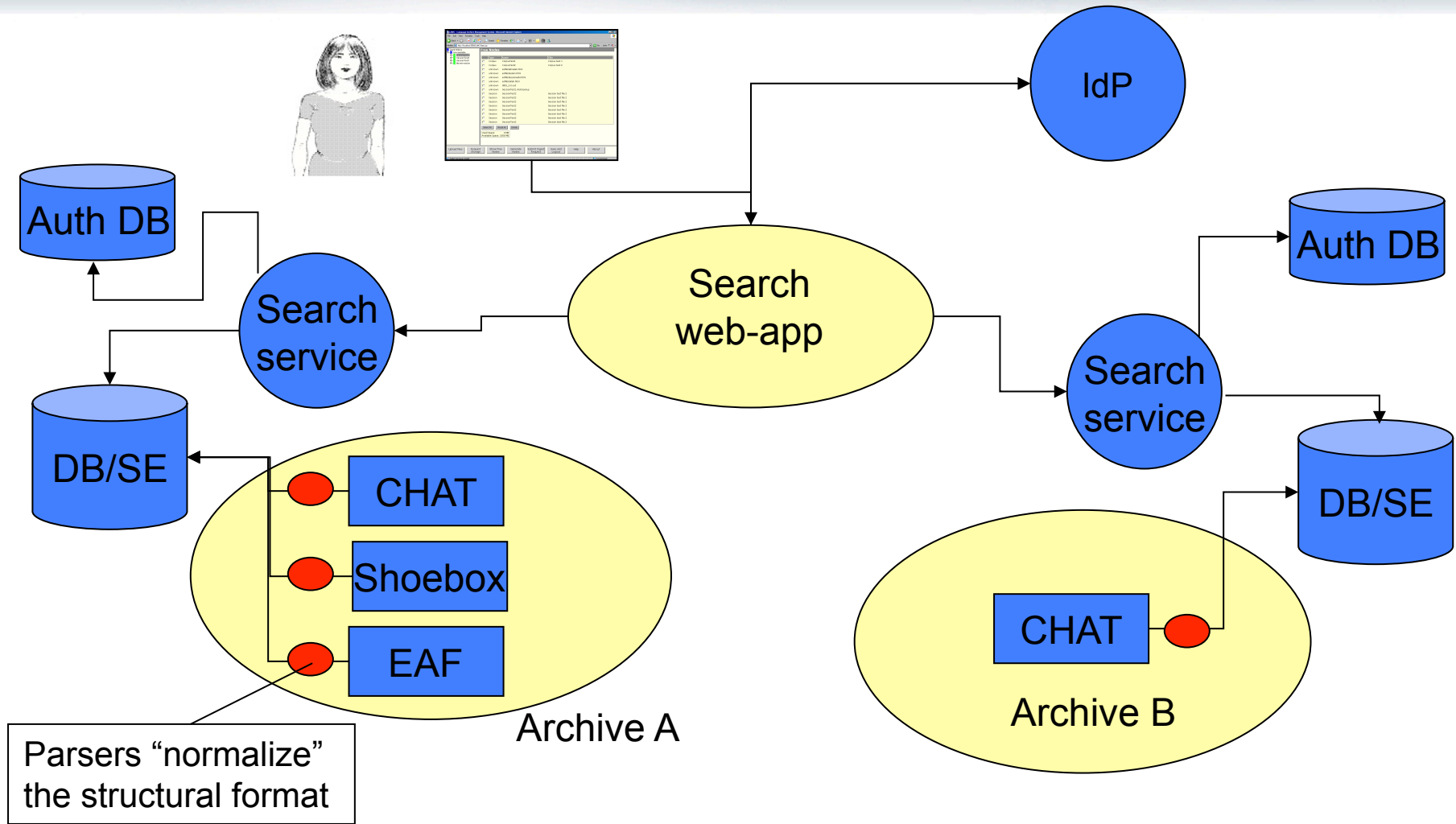
- User runs a locally installed application that gathers resources from different resource providers
- Considered solutions:
 - Use a X.509 certificate (apache + mod_ssh)
 - Possibly obtained via SLCS
 - (SLCS option being tested within Dutch BiG Grid project)

Delegation with web-application



- User authenticates to web-app that then needs to access resources from different providers on behalf of the user.
- Considered solutions:
 - Accept the web-application's claim
 - Use a certificate
 - possibly obtained via SLCS

Searching through annotations



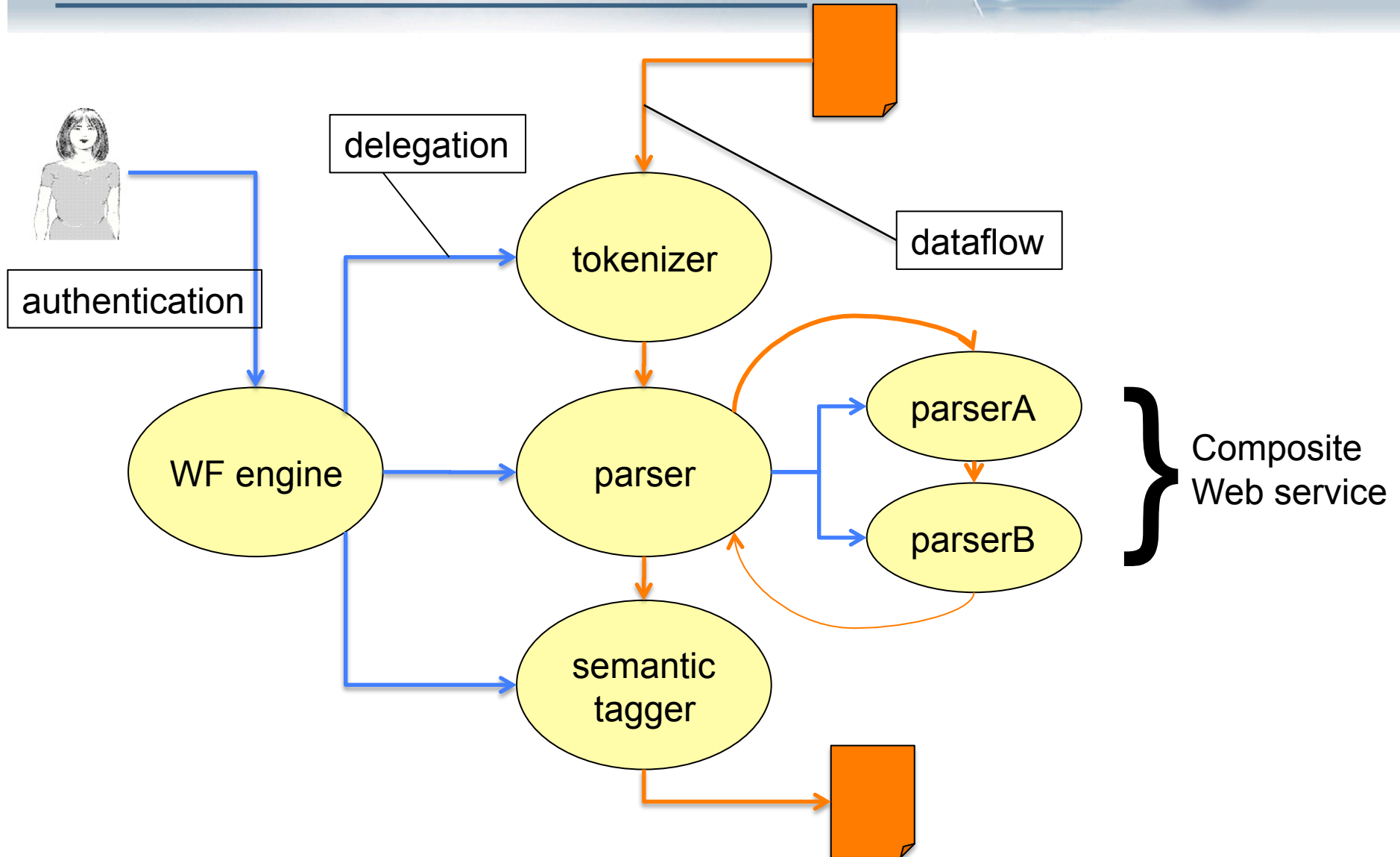
The search web-app acts on behalf of the user when it accesses the search services.

Workflow using chains of web services



- User specifies processing chains of web-services
- Every web service must be able to act on behalf of the user
 - Access resources
 - Store results
 - Call other web-services (and again delegate)
- Solutions under investigation:
 - WS Security (security token, X.509, ...)
 - ...

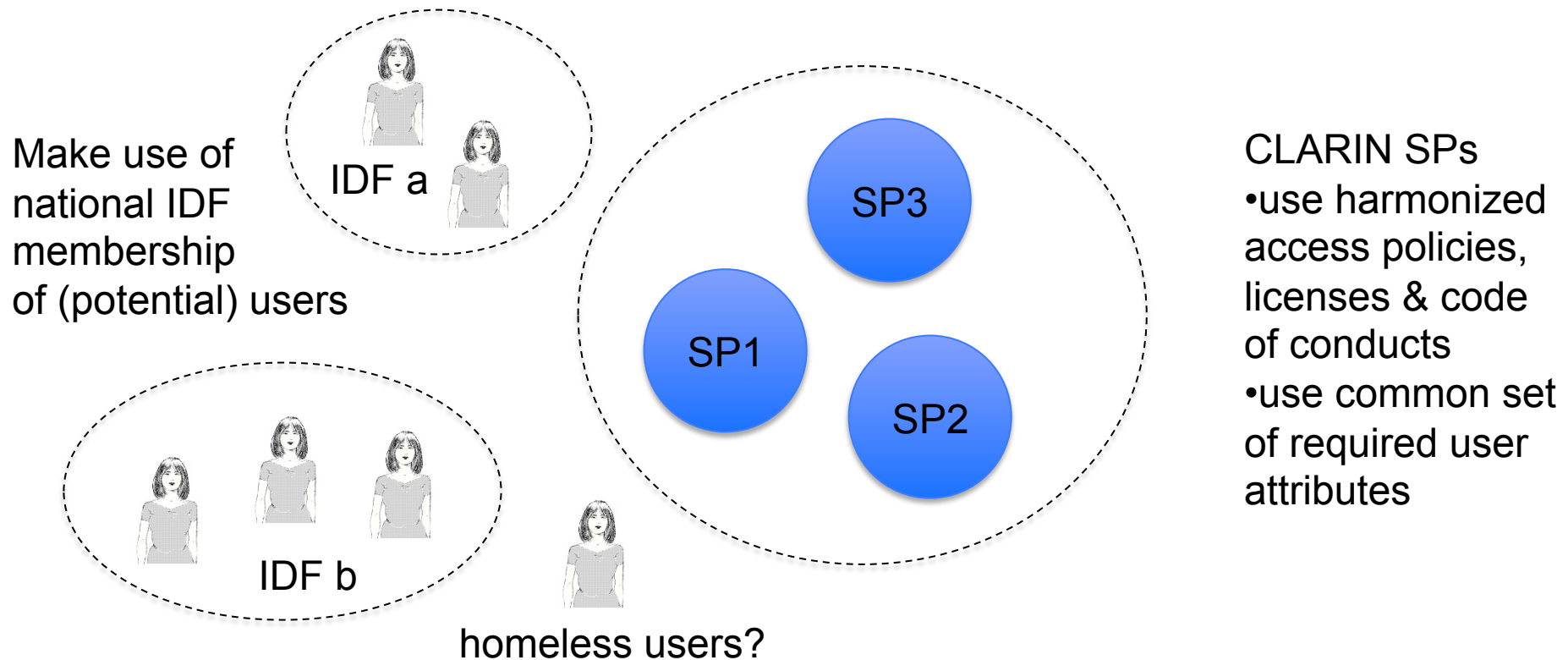
WS Workflow chains



Long term AAI objectives I



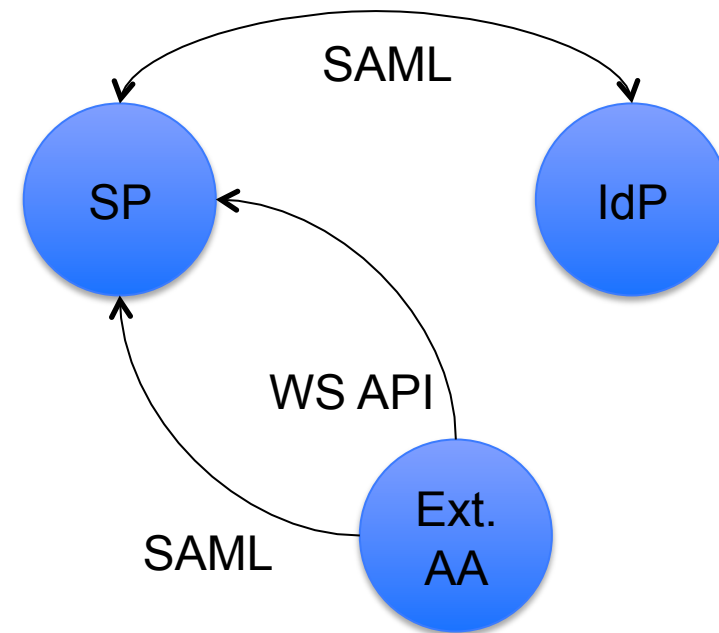
- Establish a CLARIN SP organization as a legal entity able to sign contracts where needed.
- Rely on user's home organization membership of national IDF s for establishing trust relations with the SPs



Long term AAI objectives II



- Agree on accepted set of user attributes that should be provided by all IdPs involved.
- If possible harmonize licenses & code of conducts so a central registry may be established for these untypical user attributes
 - Implement as External AA for use in authorization process
- Provide for all identified CLARIN AAI scenarios



eduGAIN



- Recent meeting WP2/WP7 discussing possible eduGAIN role
- Important to maximize potential user group: all those part of national IdFs
- Minimize bureaucratic overhead (contracts) and configuration for the SPs
- Guide or solve the user attribute harmonization question
- Advice & help in realizing the (more complicated) AA scenarios

Short term AAI objectives I



- To safeguard further financing for the national CLARIN initiatives
- Demo of federated identity and SSO access by end 2009
 - Users with different home organizations in EU
 - Representative set of CLARIN SPs in EU
- Show simple case of SSO with a web browser.
- SPs in this context are repository systems that are able to deliver resources on request

Short term AAI objectives II



- Decided for demo setup:
 - 3 IDFs: HAKA, DFN, SurfFed
 - 6 SPs: BBAW, IDS, INL, Meertens Inst, MPI Psyl, CSC
 - All SPs will use SAML 2.0 (Shibboleth, SimplISAMLPhP)
- Legal entity formation for demo setup is being investigated. Can be quick & dirty.
- Technical realization
 - All will use SAML 2.0
 - SPs will need to harvest IDF metadata and become member of all IdFs
 - ePPN will be the only required attribute

CLARIN

Common Language Resources and Technology Infrastructure



Thank you for your attention

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