Virtual Organization -as a Service

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Introduction into VOPaaS (GN4 SA5 T4)

Goals

- *Investigate* the conditions that would allow providing services to support Collaborative or Virtual Organizations
  - Preparatory work for GN4 where this is a service delivery activity
  - Focus on delivery of Technical services (IAAS or PAAS)
  - Policy & LOA development etc are out of scope

- *Deploy* services based on findings
Investigate

**Requirements:**
- Gather high-level & common requirements from/with communities
- Look at existing tools and technologies
- Operations and Market
- Look into delivery model
- Investigate business case & sustainability

**VOs investigated for Requirements:**
FIM4R paper, Umbrella, CLASSe, DARIAH, CERN, CLARIN, Virtual Campus Hub, GEANT AuthZ Management System, ELIXIR

**Deliverable (RSN):**
- Market Analysis (whitepaper) on findings and direction of VOPaaS
Deploy

Services:
• 6 ‘core’ services
• A phased approach (2 years)
• Also work on enabling generic collaborative services

Deploy infrastructure:
• Set up managed infrastructure to allow VOs to focus on using, not building AAI services
• ‘As a service’ offering, so management GUIs needed
• Infrastructure itself will need AuthZ and AuthN

Run Pilots:
• Run pilots on production platform with community
Phase 1 (Year 1)

- Membership management / onboarding users
  - VO specific workflows
  - provides per VO persistent ID
  - Account linking w/ eduGAIN & extIDp

- extIDp (external ID provider) w/ BYOLOA support
  - single SAML endpoint for external IDs (social/bank/stork/etc)
  - Let a VO define its own LOA on a per IDp basis
  - Transactional; does not store account information
  - fallback when account is ‘lost’
Core services – DRAFT!

Phase 2 (Year 1)
• VO specific Attribute management
• VO specific Group management
• A proxy for aggregating data from core services

Phase 3 (Year 2)
• Step-up as a Service
• Possibly: Services developed in Research projects like GN4 JRA3, AARC, etc.
Some ideas & considerations

• **Registries, not applications**
  -> The core feature of the services is its Registry & API. A default GUI for data entry will be provided, but BYOGUI is also possible

• Also work on **enabling generic collaborative services**, either by working with providers, or running ‘content-less’ services ourselves

• Allow NRENs / VOs to offer **value added services**
Collaboration with AARC

• Run Pilots in close collaboration with AARC
  • Shared topic space
  • Shared Expertise
  • Shared People

Let’s NOT duplicate work
## Activities
(even more DRAFT then previous slides!)

### 2015:
- End of Aug: Market Analysis
- Sept: Pilot preparations
- Nov: Begin with Pilot phase 1

### 2016:
- Apr: Begin with Pilot phase 2
- Aug: Begin with Pilot phase 3
Thank you!