



Federated Identity and the Photon / Neutron Community

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- ❑ ***Umbrella prototype***
 - ✓ Status
 - ✓ Road map

- ❑ ***FIM workshop and paper***
 - ✓ Community feedback
 - ✓ Conclusions

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Umbrella

❑ *Demands at large photon / neutron facilities very clear to IT responsables*

- ❖ Unique user ID, persistent
- ❖ Remote data and experiment access
- ❖ Need for user and facility friendliness
- ❖ Very large number of visiting scientists: Need slim and efficient system

❑ *Reduced excitement on management (and user?) side*

- ❖ Limited resources
- ❖ Confidentiality
- ❖ Scientific competition

❑ *Overlapping IT communities, strong need for bridging*

- ❖ Large facilities and universities (educational sector)
- ❖ Large facilities and university labs

❑ *Umbrella*

- ❖ Common central, web portal, hybrid information structure
- ❖ Slim solution, no top down organization, self service elements
- ❖ Build on existing infrastructure (user offices), clear topology, no double worlds

Friendly user phase

- ❑ **Goal and duration**
 - ❖ Test of the system by future users
 - ❖ February 1 – March 31
- ❑ **Central Applications**
 - ❖ Prototype of central web site
 - ❖ EAA: registration, mutation
 - ❖ Alfresco, Indico, Issue tracker, Wiki
- ❑ **Federated applications**
 - ❖ Umbrella + WUO clone versions
- ❑ **Participants**
 - ❖ **Facilities**
 - DESY
 - Diamond (iCAT service, Moonshot?)
 - ESRF
 - PSI
 - ❖ **'Friendly' users**
 - ~30, all over EU
 - External expert users (ESUO, ETH, BioStruct, ??)
 - Local facility experts (DESY)

Roadmap towards implementation

- ❑ **Harmonization meeting (CRISP & PaNata)**
ZRH airport (20 participants) June 13
 - ❖ Unanimous agreement: go towards implementation

- ❑ **Project structure**
 - ❖ Management team
 - ❖ Priorities, MoU, facility coordination
 - ❖ Technical team
 - ❖ To be done (e.g. affiliation db)

Umbrella collaborators

❑ DESY

❖ Frank Schluenzen, Rolf Treusch, Jan-Peter Kurz, Ulrike Lindemann

❑ Fermi/Elettra

❖ Ornella Degiacomo, Giorgio Paolucci

❑ ESRF

❖ Rudolf Dimper, Dominique Porte, Stefan Schulze

❑ European XFEL

❖ Krzysztof Wrona

❑ GSI

❖ Peter Malzacher, Almudena Montiel

❑ HZB

❖ Thomas Gutberlet, Dietmar Herrendoerfer, Olaf Schwarzkopf

❑ I LL

❖ Jean-Francois Perrin

❑ IPJ (Poland)

❖ Robert Nietubic

❑ MaxLAB

❖ Ulf Johansson

❑ PSI

❖ Bjoern Abt, Stephan Egli, Stefan Janssen, Markus Knecht, Mirjam van Daalen, Heinz J Weyer

❑ Soleil

❖ Frederique Fraissard

❑ STFC

❖ Anthony Gleeson, Bill Pulford

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Response from the P/N community

□ *Feedback*

- ❖ Limited, why?
- ❖ Have created decently working environment
- ❖ Scientists are conservative, other priorities; but need to keep them
- ❖ Talk about far future, is change really needed?
- ❖ Expect experts to have solution in case

□ *Issues*

- ❖ No reactions on general issues, specific topics
- ❖ Changes of local infrastructure not acceptable
- ❖ Need common entry point for remote data access
 - o Recent SwissFEL DAQ workshop: LCLS(SLAC), EU XFEL (DESY) will have on-site analysis centers, SwissFEL probably too
- ❖ User friendliness, secure self service, no chance for grid-certificate-type mechanisms, must be quick and slim
- ❖ Simplify admin burden, no additional resources, transparency for access
- ❖ Identity uniqueness and persistence
- ❖ Different levels of assurance, validation

Need two approaches in parallel (1)

□ *Top down*

- ❖ General concept
- ❖ Try to find synergies
- ❖ Common approach towards science policy

Need two approaches in parallel

□ *Bottom up*

❖ See things from user side

o Look at real use cases

- Postdoc moving from A to B
- Geologist studying a piece of rock (P/N facility = 1d/y)

❖ See things from facility side

o Have only few FTE's to handle site access, housing, proposals, visa, computer accounts, ...

o Quantitative issue

- ESRF as example: 10'000 users/y, 20'000 visits/y, 1'500 affiliations, 15 countries.
 - Currently do authentication with few 10% of FTE
 - all EU: x2-3

❖ Grouping of users

o NRENs (national, geographical)

o Facility clusters (user offices, international)

o How can they be related?

FIM and New vistas

□ *Bridging, different federations*

❖ CRISP

- o Partly topic of WP16 (PSI and GSI)

❖ Different options

- o No answer, islands
 - Too dangerous, do not trust
- o Fully transparent
 - Risky
- o Bridging
 - User can e.g. bring her/his attributes from Facebook

□ *New media, how do we deal with them*

❖ Support or 'You are entering the wilderness'

❖ Fora, Facebook

- o Facility operated, 'info trees' (EuroFEL, CALIPSO), Wikis
 - There is a need, but labor intensive
- o Commercial, User driven (Facebook, Google+)
 - Researchers: info exchange

❖ Clouds

- o Community driven
 - Helix Nebula, High interest in further development
- o Commercial
 - Users: analysis, publ. preparation (repl. for email)
 - Let them do or give support?

Thank you