

IDENTITY TECHNOLOGIES: A NEW GROUNDWORK FOR PERSONAL ENVIRONMENTS

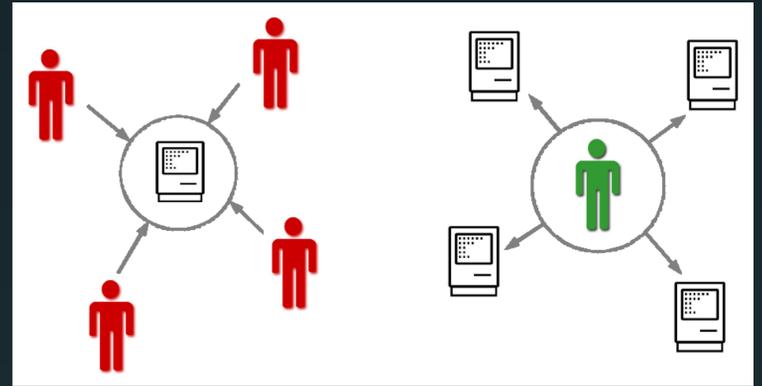
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LOOKING FOR INNOVATIVE LEARNING AND COLLABORATION TOOLS

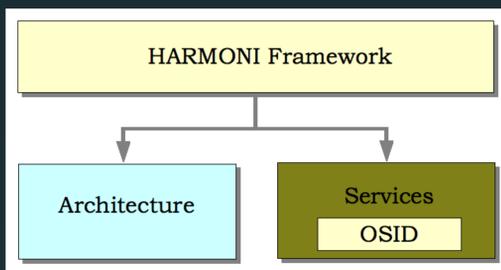
Integrated learning environments are commonplace nowadays in our universities. However, in spite of the initial expectations and the Bologna focus on learner centred approach, its use has not involved too many changes in actual learning models. In most of the cases, they have just become an extension from a physical space -the classroom- to some kind of virtual annex -the platform- where, nevertheless, the same teaching and learning practices are used.

That's because most common VLEs nowadays focus on a "tool-centred design", turning them into isolated universes each one with its own access rules, resource management and so on. This approach leads to an endless race or "kitchen sink syndrome" without any real innovation on learning and teaching practices. Our approach emphasizes on moving from VLEs towards user centred, *fuzzy* delimited platforms, that are true **Personal Learning Environments**. This requires finding the most appropriate architectures, which, from a design point of view, leads to identity centred architectures.



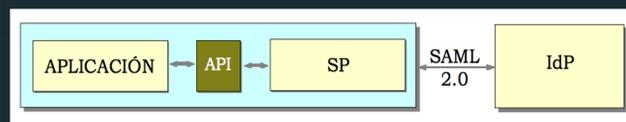
INTEROPERABILITY: OSID-OKI *Harmoni*

(Adam Franco, Middlebury College)



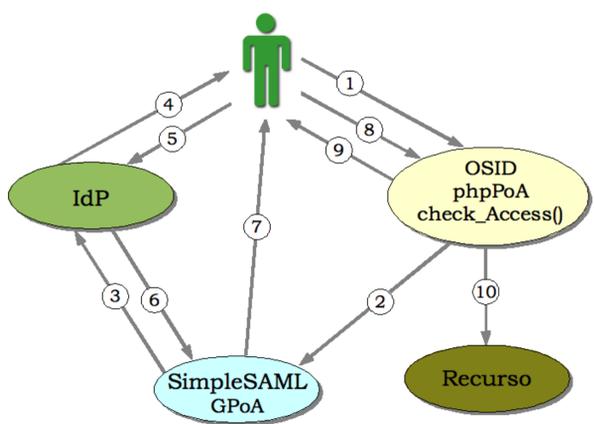
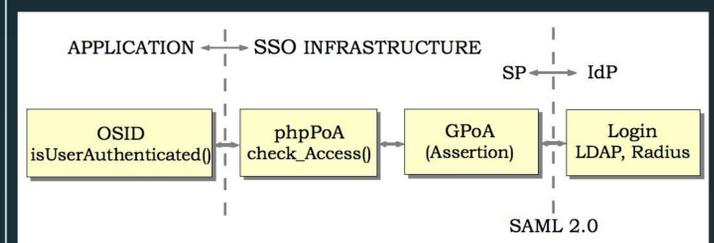
FEDERATION: SimpleSAMLphp

(Andreas Å. Solberg, FEIDE RnD)



AUTHENTICATION ARCHITECTURE (SSO):

PAPI phpPoA + SimpleSAMLphp



AUTHENTICATION PROCESS

- [1] User attempts to reach some protected resource, application or service
- [2] The Authentication OSID calls to PAPI phpPoA for authorization checking
- [3] phpPoA redirects to SimpleSAML-GPoA looking for a valid PAPI assertion
- [4] SimpleSAML-GPoA redirects to SimpleSAML IdP for user authentication
- [5] SimpleSAML IdP presents the login form to the user
- [6] User fills in the login form
- [7] IdP checks the user identity and returns the adequate attributes to the SimpleSAML-GPoA
- [8] SimpleSAML-GPoA builds a valid assertion with such attributes and returns it to the user together with a redirection to the requested resource
- [9] The browser accesses the requested resource
- [10] phpPoA sends a cookie to user
- [11] phpPoA allows access to requested resource

ÁGORA VIRTUAL: INTEROPERABILITY, SSO AND FEDERATION BY DESIGN

Thanks to these technologies it becomes easy to embed existing applications or services. For example, a DokuWiki can be embedded within the Ágora Virtual environment because both, wiki and Ágora Virtual environment, are federated using the identity technologies seen above: PAPI and SimpleSAMLphp, and share a common identity provider.

Criteria	Indicators				Value	
The context observation						
The context observation	It don't gather any characteristics	It gathers with details the characteristics of the students group	It gathers with details the characteristics of the students group, of the school and of classroom	It gathers with details the characteristics of the students group, of the school and of classroom, and the socio-economics levels of context		
	2.5	5	7.5	10	10	
Observación contexto escolar						
Makes the objectives in terms of competences	It does not do it in terms of competences	Single some	Considering	Makes all the objectives in terms of competences	Considering the characteristics of the student and their resources available	
	0	8.33	16.67	25	25	
Categoría Unidad didáctica						
Justifies the assignment	It does not make any justification	Yes, but briefly	It justifies with the PCC	It justifies with the PCC and curricula		
	2.5	5	7.5	10	10	
					Total	31.67 / 45

e-Rubric and e-Portfolio: Formative Evaluation in the European Space of Higher Education.

Identity and federation technologies allow teachers and students from various universities access a shared e-rubric to analyse and compare the application of evaluation standards in those institutions.

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