



AWARENESS

FREEBAND

Lucent Technologies
Bell Labs Innovations



» 3PAC « 3rd Party Access Control for Web Services

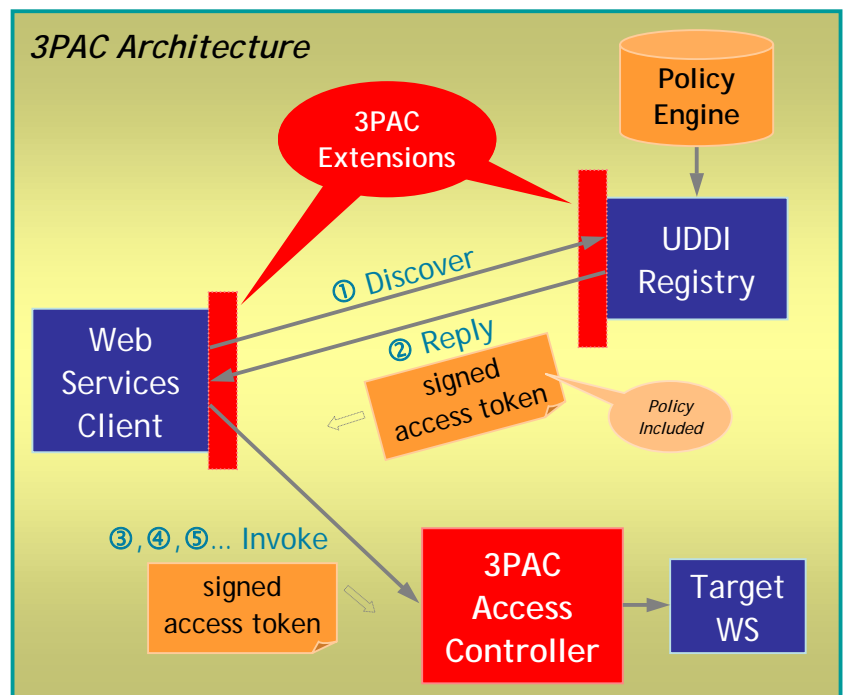
Goal Scalable enforcement of fine-grained access control policies in a Service Oriented Architecture

Approach Link authentication and access policy evaluation with service discovery

- ❖ Evaluate static, request-independent parts of the access policy during service discovery,
- ❖ Use signed access tokens to do policy enforcement for each service request locally and hence efficiently.

Main Features

- Web Services
- Linked to UDDI
- Token-based (SAML)
- Fine-grained policies
 - per method
 - per parameter
- Multi-domain
- Standards based
- No changes to Web Service Client and Web Services



Used to enforce end-user privacy policies for context-aware systems, e.g.,

- The employer of Mr. Jansen can access his location, but only during working hours, and
- Mr. Jansen's friends can access his location, but only with city-level accuracy.

Reference Jeroen van Bommel, Maarten Wegdam, Ko Lagerberg
3PAC: Enforcing Access Policies for Web Services
Proceedings of the 2005 IEEE International Conference on Web Services (ICWS 2005), 11-15 July 2005, Orlando, Florida, USA.

Freeband AWARENESS project
Context AWARENESS Networks and Services

<http://awareness.freeband.nl>