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OGSA Security Roadmap Discussion

GGF5 – 7/24/02



Outline

- Introduction
- Architecture Goal
- Roadmap Goal
- Proposed Specs
- Challenges
- Next Steps
- ...
- Discussion



OGSA Security Architecture Goal

- Address the Grid Security Requirements
- Leverage existing/emerging Frameworks/Architecture/Standards
- High Level



OGSA Security Roadmap Goal

- Address the Grid Security Architecture Requirements
- **Make Implementations Possible**
 - Address Interoperability
 - Address Pluggability/Replaceability
 - Address missing/late/insufficient Standards

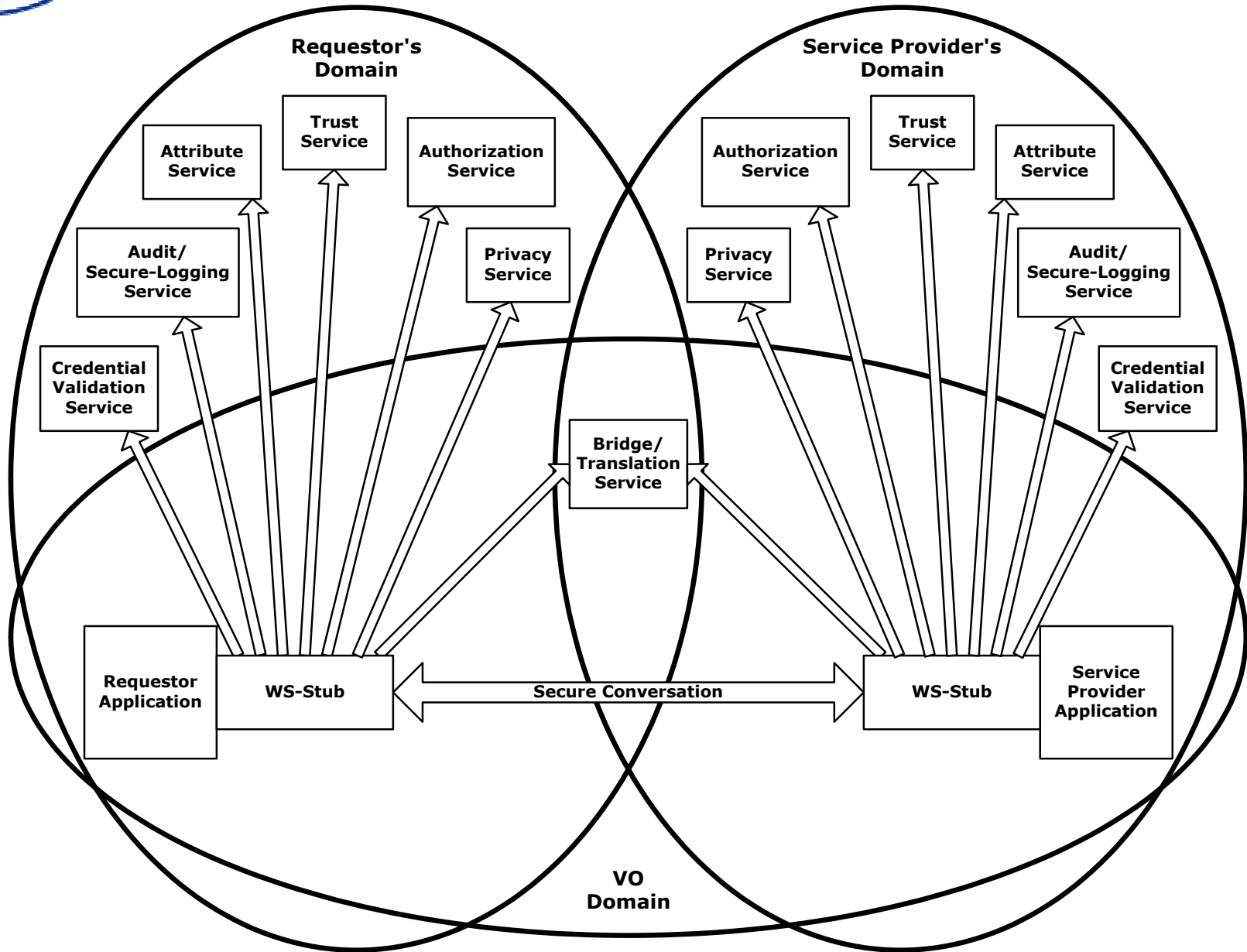


Leverage existing/emerging Security Standards

- WS-Security/Policy/Trust/Federation/Authorization/SecureConversation/Privacy
- XKMS, XML-Signature/Encryption, SAML, XACML, XrML
- But...
 - Need to OGSA'fy
 - Need to define Profile/Mechanisms
 - Need to define Naming conventions
 - Need to address late/missing specs



Security Services



Proposed Specs. (1)

Category	Specifications
Naming	OGSA Identity OGSA Target/Action Naming OGSA Attribute and Group Naming Transient Service Identity Acquisition
Translation between Security Realms	Identity Mapping Service Generic Name Mapping Policy Mapping Service Credential Mapping Service
Authentication Mechanism Agnostic	OGSA Certificate Validation Service OGSA-Kerberos Services
Pluggable Session Security	GSSAPI-SecureConversation
Pluggable Authorization Service	OGSA-Authorization Service

Proposed Specs. (2)

Category	Specifications
Authorization Policy Management	Coarse-grained Authorization Policy Management Fine-grained Authorization Policy Management
Trust Policy Management	OGSA Trust Service
Privacy Policy Management	Privacy Policy Framework
VO Policy Management	VO Policy Service
Delegation	Identity Assertion Profile Capability Assertion Profile

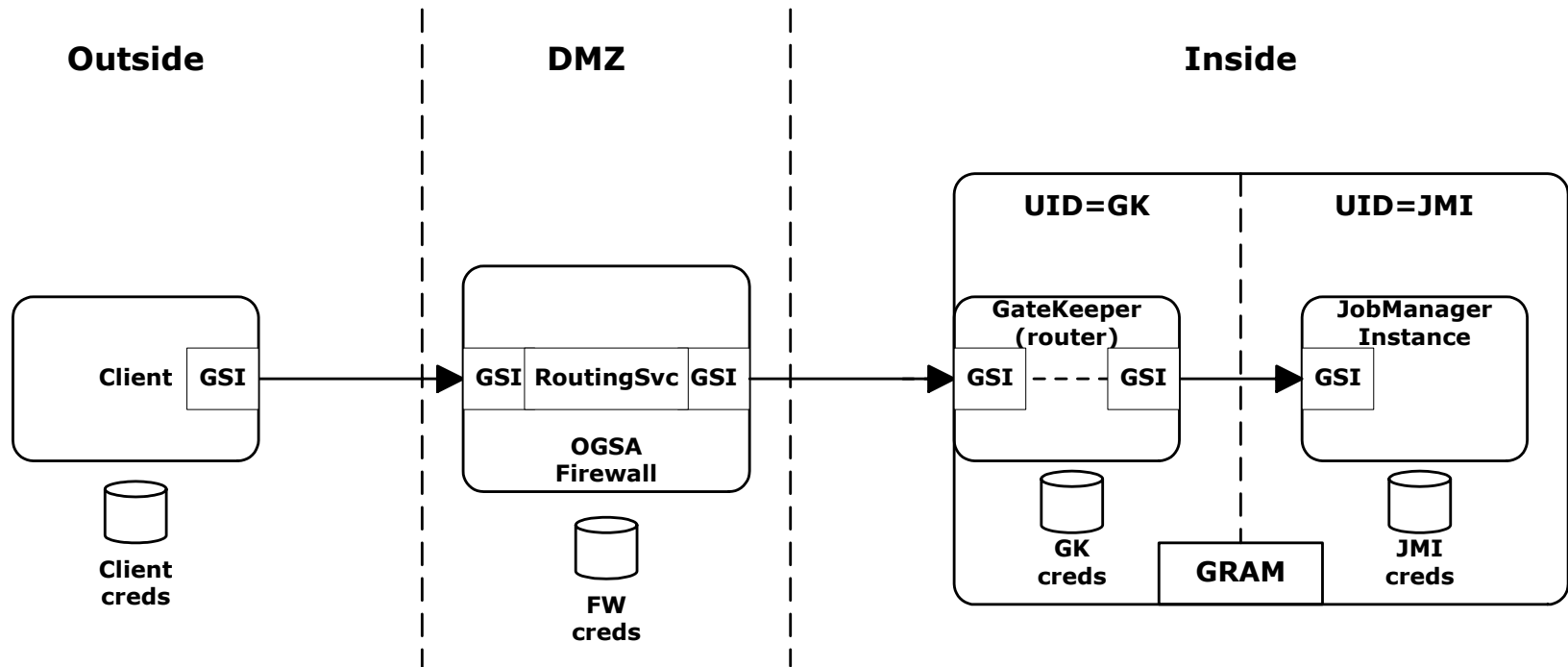


Proposed Specs. (3)

Category	Specifications
Firewall Friendly	OGSA Firewall Interoperability
Security Policy Expression and Exchange	Grid Service Reference and Service Data Security Policy Decoration
Secure Service Operation	Secure Service's Policy and Processing Service Data Access Control
Audit and Secure Logging	OGSA Audit Service OGSA Audit Policy Management



Firewall "Friendly"





Challenges

- Empty WS Security Architecture boxes
- Dependencies on other Standards Orgs
- Grid Community & Industry Participation
- Time
- High expectations...



Proposed Charter

- Produce and maintain Architecture and Roadmap docs
 - Identify OGSA Security requirements
- Identify and initiate other Security WG associated with needed specs.
- Coordinate and participate in external Standardization efforts
 - Specifically related to the emerging WS Security Architecture



Next Steps

- OGSA Security WG Charter
 - OGSA Security Architecture & Roadmap docs.
- Refining the Architecture & Roadmap
 - Dependencies & timelines
 - Add missing specs & delete obsolete ones
- Solicit/ask/force/bribe people/orgs/companies to commit to work on the specs
- Formation of other OGSA-security WGs
 - Address different specs.
- Ensure “Grid-focus” in other Standards Orgs