



JRA1.3: SRMSEC

(for data)

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Setting the scene

- SRM
 - Protocol for controlling storage
- Delegation
 - Allows an SRM server to act “on behalf of” end-user.
 - Creating X.509 certificate & private key on server, signed by end-user.
- GSI
 - V. similar to SSLv3 but incompatible.
 - Allows clients to trigger delegation

Why delegate?

- Protocol-independent 3rd-party copy
srmCopy
- Reserving network bandwidth
srmPrepareTo(Get|Put), srm(Get|Put)Done,
srmCopy
- X.509-aware tertiary storage
SrmBringOnline, srmPrepareTo(Get|Put),
srm(Get|Put)Done, srmCopy
- Federated SRM
Everything except srmPing.

Still to decide...

- Which delegation service to use,
- Other behavioral issues:
 - Delegation Service endpoint discovery,
 - When should the client delegate?
 - Do we fix the SRM standard?
 - Reconnection behavior,
 - Credential renewal behavior,
- Testing compatibility?
- How to roll-out SRM-over-SSL.

Delegation Services

Name	Tech.	C / Native		Java / JVM		Supported	Timeline understood
		Client	Server	Client	Server		
Globus Credential Delegation Service	SOAP	Y	Y	N	N	N	N
GridSite Delegation Service	SOAP	Y	N	Y	Y	Y	N
Globus New Delegation Service	REST	N	N	N	N	Y	N
IVOA Delegation Service	REST	N	N	Y	Y	M	N

Activity and Progress

- Test client and server:
 - dCache (server and client),
 - No delegation support,
 - Uses Globus GSI library in SSL mode.
- Test SRM and GDS with same endpoint
 - FTS already does this (Axis/Java)
 - DPM tested this (gSOAP/C)
- Decisions made so far:
 - GridFTP is out-of-scope

Deciding things NOW

- I would like us to decide **ONE THING** today.

What is our process for reaching consensus?

- Regular phone conferences? (bi-weekly?)
- List of open questions we work through?
- Concrete draft documents?



Thank you!

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