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Globus Alliance

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Why Standards?

- To enable the creation of **interoperable** Grid systems
 - ◆ Protocol standards
 - ◆ Policies
- To enable the creation of **portable** Grid tools and applications
 - ◆ API standards



Engagement

- GGF
 - ◆ GridFTP, GSI, OGSI, OGSA-DAI, Auth callout, OGSA
- IETF
 - ◆ Proxy credential format
- W3C
 - ◆ WSDL 2.0
- OASIS
 - ◆ WSRF, WSN
- Other
 - ◆ GLUE schema



Implementations (GT4)

- WSDL, SOAP, WSRF, WS-Notification
 - ◆ Java, C, Python
- WS-Security, with X.509 proxy certs
- XACML
- GridFTP
- Combination is proving incredibly powerful
- Others that I am forgetting
- **Come to workshop this afternoon!**



TeraGrid, Open Science Grid

- Both are pushing hard on the deployment of large-scale interoperable Grid systems
 - ◆ Very practically oriented
- Emphasis is primarily on use of common open source software
 - ◆ Globus Toolkit, in particular, but several other components as well
- Common policies are a major concern
 - ◆ E.g., CA policies

Experiences

- Positive
 - ◆ Community engagement in OGSI/WSRF improved quality and broadened adoption
 - ◆ GridFTP, GSI: multiple implementations
 - ◆ CA policy standards
- Less positive
 - ◆ Interoperability remains elusive
 - ◆ Influence of commercial standards wars
- Overall
 - ◆ Open software has so far been far more important than open standards