The New Virtual Organization Membership Service (VOMS)

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Outline

• VOMS and why do we care (or do we?)
• The problem
• The standards
• Checkpoint
• The bigger problem
• Conclusions

Unite and conquer!
(what is a VOMS)

• Every user of a grid system should be able to identify themselves by presenting the proper authorization credentials.
• Is that actually feasible?
• What do we want from VOMS?
  - Decrease the number of credentials issued by the grid system

The problem

• VOMS was developed in 2002
• Current grid web-services standards:
  - WS-Trust (March 2007)
  - WS-Federation (December 2006)

... and it looks like this...

... or like this
What do the standards require

- Getting the source code of a VOMS implementation turned out to be an NP-hard problem.

However...

Conclusions and future work

- It is reasonable and possible to build a VOMS so that it’s compliant with the standards.
  - It will just require including the necessary security servers (which can conveniently be on the same machine as the VOMS server).
- Actually implement the standardized VOMS.

Questions