

# The New Virtual Organization Membership Service (VOMS)

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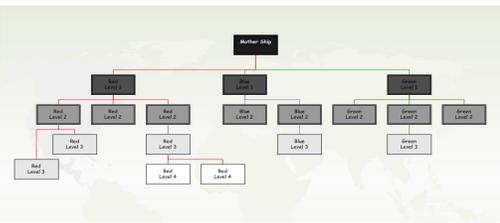
## Outline

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

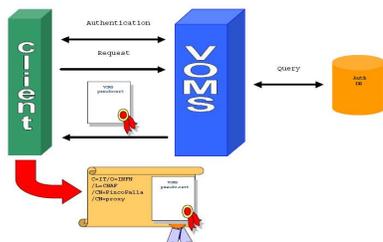
## Unite and conquer! (what is a VOMS)

- 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

## ... and it looks like this...



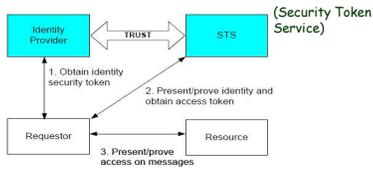
## ...or like this



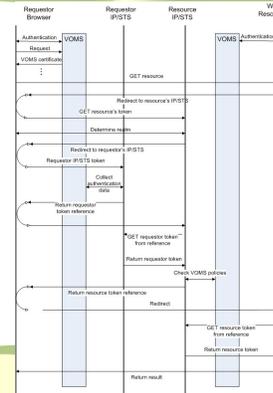
## The problem

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

## What do the standards require



## The result



## However...

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

## 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

