



Enabling Grids for E-scienceE

VOMS migration to SSL: Roadmap and Issues

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- **Both TCG and the dependency review asked us to remove Globus dependencies from VOMS.**
- **Easy to do (1-1.5 months of development), but:**
 - It would break cross-version compatibility with existing installation.
 - It would imply a simultaneous re-installation of both servers and clients worldwide.
 - Clearly untenable.
- **So, a step-by-step solution is necessary.**

- **Phase 1:**
 - Provide a server capable of talking both GSI and SSL.
 - Everything remains compatible.
 - Scheduled for release 1.8.0
- **Phase 2:**
 - Provide clients speaking only SSL.
 - Will only speak to server $\geq 1.8.0$
 - Scheduled for release 1.9.0
- **Phase 3:**
 - Provide server speaking only SSL.
 - Will only accept clients $\geq 1.9.0$
 - Scheduled for 2.0.
- **Plus, the API problem.**

- **Globus independency also means APIs without Globus dependencies.**
 - Already available in a reduced functionality since 1.7.0
 - Cannot be used to contact a server.
 - Simple to extend to use SSL.
- **However:**
 - Existing applications already use Globus, which brings about its own customized OpenSSL.
 - Mixing GT OpenSSL with System OpenSSL (usually more recent) is a bad idea.
 - They are incompatible at ABI level

- **Short term:**
 - Both versions of the libraries will be made available.
 - Old applications may continue use the GT ones.
 - New applications should use the OpenSSL ones.
- **Long term:**
 - Is the drive to remove GT dependency serious?
 - If yes, other applications should also do it.
 - *Then, they could use the OpenSSL libraries.*
 - If not, why just for VOMS?

- **VOMS 1.8:**
 - Late October – Early November
- **VOMS 1.9:**
 - Late 2008
- **VOMS 2.0:**
 - Late 2009
- **Timescales for 1.9 and 2.0 are spaced to give time for deployment of the earlier version. They can be stepped up if needed**