Proposal for future SRM testing

Preliminary steps

1. SRM developers share information on SRM testing with the purpose to identify a common test suite or testing framework
2. Quantify the amount of work needed to support S2 as a framework in view of future changes

Possible scenarios

1. S2 and its test suite is agreed as a common tool
   1. Framework maintained by the developers (assuming the needed effort is limited)
   2. S2 tests are run by everybody (e.g. as part of release validations)

2. Another test suite (e.g. from BeSTMan or StoRM) is agreed as a common tool
   1. Useful S2 tests are migrated to it
   2. S2 is not used any longer

Introduction of new tests

- Any server or client developer (including from experiments) can propose a new test
- The proposal is discussed and the conditions for success are agreed by everybody (e.g. in case SRM specs are not clear)
- The test is implemented (e.g. by whom proposed it)

Considerations

- Advantages
  - Sharing tests immediately benefits everybody (valid for both existing and new tests)
  - Reuse existing test suites (and maintain them as a collaborative effort)
  - Agreement on new tests and commitment to run the tests lessens the chances for loss of interoperability
- Disadvantages
  - No external, "3rd party" development effort (but discussions could be moderated by a 3rd party)
  - It requires a general agreement among the SRM developers that this is desirable and sustainable