

StoRM - Update



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- Releases of StoRM in EMI
 - **1.7.0** - EMI-1 Update 3 (July)
 - *First EMI release*
 - *Problems:*
 - Crash of the FE, memory leak (multiple causes)
 - **1.7.1** - EMI-1 Update 6. (September)
 - *Better version than the previous one*
 - *Problems:*
 - Problem with the info published
 - **1.8.0** – Under certification. EMI-1 Update 9 . (November)
 - *Baseline candidate for SL5/64*

Are you in time?



- A lot of work to produce a satisfying release for our major customers
 - Three update releases in 5 months.
- Some unexpected problems in the first release
 - however achieved with hard work and late
 - some bugs were silent:
 - *occurred after the resolutions of other bugs.*
- Result:
 - we have accumulated one/two months late

Some changes in progress



- Focused on the achievement of :
 - “Improve quality” → “Improve user satisfaction”
- New StoRM project coordinator:
 - V.Vagnoni (LHCb INFN computing coordinator)
- Implemented a new dedicated Stress Test-bed :
 - Reproducing Tier-1 load (and hosted/managed there)
 - Working since September (next release will profit)
- StoRM is **hiring** a new developer (in IGI)
 - also to compensate for delays
- Core StoRM developers (me and Michele) are migrating to IGI from INFN (Tier-1).

- Up to now, it has **not** been done **much** work on this
- Affects only the Front-End component.
- To-Dos:
 1. Analysis for eventual FE architecture changes
 2. Integration of PEP client library (C)
 3. Strong (stress) tests must be done:
 - *Performance drawdown (Tier-1 load)*
 4. Feedbacks to ARGUS team

- Up to now it has been done **some** work, but several aspects have to be explored.
 - The rough-idea was outlined
 - *A very preliminary draft was shared with Jon*
 - To-Dos:
 1. Detailed design
 - To investigate implications on the Back-End component architecture
 2. Produce an estimate of the effort needed
- It is expected one or two week late (mid November)

- Up to now it has been done **some** work, but several aspects have to be explored
- The rough-idea was outlined
 - *StoRM will act as a producer only*
- To-Dos:
 1. Proof-of-concept integration
 - *Use of command-line tool provided by SEMsg*
 - *Bulk submissions (startup scenario)*
 2. Integration on BE of Java plugin
 - *Java library will be provided by Fabrizio 😊*
 - *Tests (especially on large number of entries)*

- Much of the work was **completed**, however:
- To Dos:
 1. There is agreement on what to publish in the GLUE 2.0, but we are aligned on the format?
 2. Is there a conformance test suite?
 - *Gstat 2 probes are available?*
 - *GLUE 2 validator is enough?*

- Up to now, it has been done **no progress** on this
- To Dos:
 1. Investigate the real need to have WebDAV support available in the short term
 2. Which user community want to use it?

- Up to now, it has been done **no progress** on this
- To Dos:
 1. Wait for instructions
 2. Evaluate the instructions 😊

- Up to now, it has been done **no progress** on this
- To Dos:
 - Support for SL6 platform
 - Support for Debian platform

- A **prioritization** of tasks will be discussed in IGI / INFN
- What we can include in StoRM 1.9/2.0 (EMI-2)?
 - GLUE 2.0 support : sure
 - ARGUS Integration : quite sure
 - Support for other platform : partial
 - *maybe one other platform only (SL6 is more probable than Debian)*
 - SRM over https : ?
 - Synch. Cat integrat : ? (prototype quality)
 - WebDAV support : ? (it is required a confirm on that)

- StoRM is late on some tasks
 - due to a sequence of problems which it is hoped definitively resolved
 - confident we recover the situation in a short time
- working to improve the quality of the software distributed, and consequently will increase the **user satisfaction**
- The StoRM project is under reorganization:
 - INFN (Tier-1) and IGI
- The dev. team (IGI) will be enlarged with a new hire
- Prioritization of tasks will be discussed in IGI / INFN