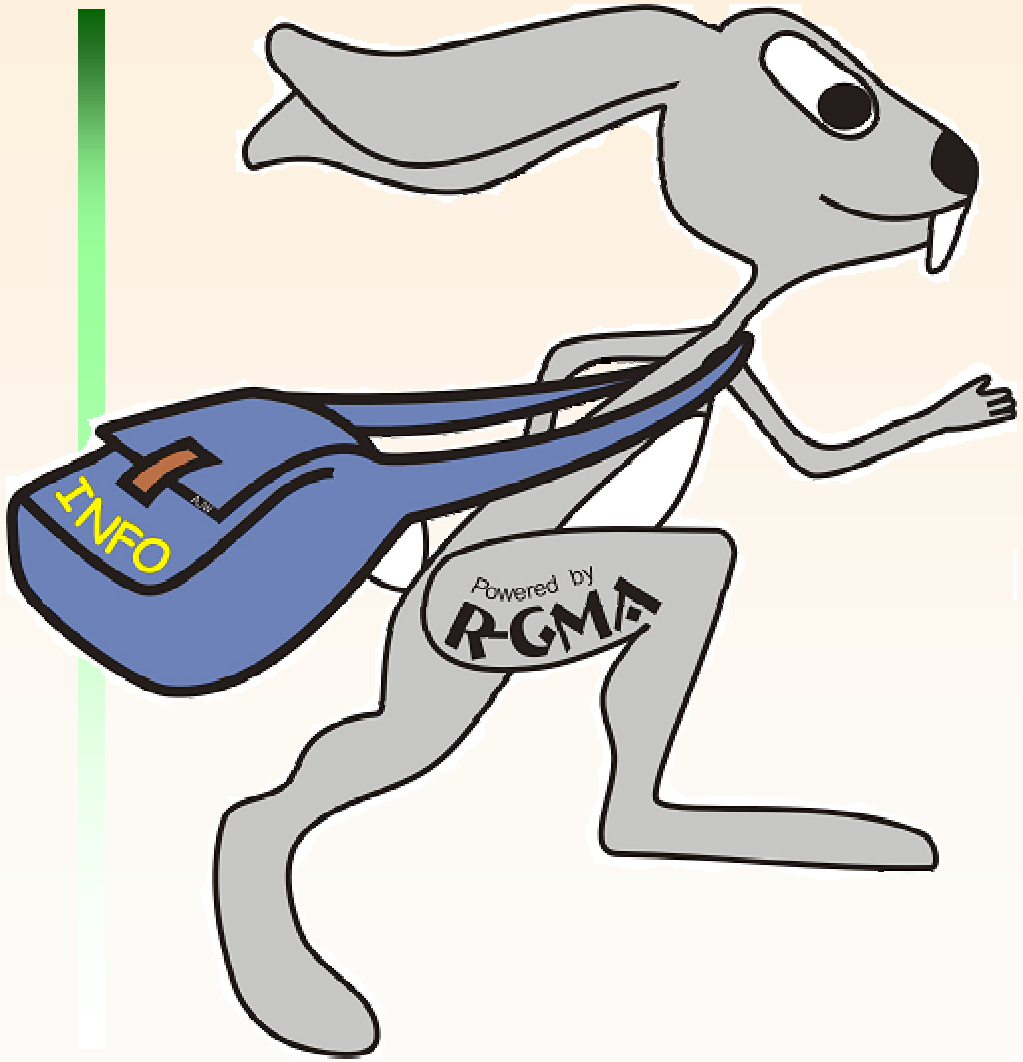

Quality (Updated)

Steve Fisher / RAL

25/9/2003

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Code

- Problems
  - Unit tests are not enough
  - WP3 testbed is currently too small to find some of our problems
  - Delays in getting things installed
- Not Solutions
  - Formal analysis
    - Not enough time
  - Replicate logs
    - Retrieval of remote logs should be enough
- Solutions
  - Unit tests are cheap – so write a lot
  - Use multiple CE and SE at each site – and make use of dummy GINs – make it work harder than real testbed.
  - Code to retrieve remote logs
  - Adequate (very large) default rotating logs
  - Complete the resilience testing framework ASAP
  - Avoid a major change before a previous one has been fully tested on a significant testbed.
  - Don't release code just before going on holiday
  - More self-monitoring
    - Enhance getNewStatus()
  - Improve exception handling

Performance

- Problems
  - See Antony's talk
- Solutions
  - See Antony's talk
  - Must have alarms set up
  - Stats must be totally automatic

Documentation

- Problems
  - How to keep it up to date
  - How to make sure it is useful
- Solutions
  - Ensure that bugs are submitted to Bugzilla

Support / Skills

- Problems
  - Ideally we would all be experts at everything and totally interchangeable "black boxes"
    - unrealistic
  - People leave, are ill, take holidays
- Solutions
  - Revisit skills matrix
  - Improved documentation
    - Architecture doc
    - Code documentation should explain what blocks are doing – and not line by line.
      - With small methods the method description may suffice

Miscellaneous

- Target cooperating users
  - WP3 support e-mail list
  - Ensure that users are happy
- More frequent meetings to keep targeted
- Can we put more people onto the immediate problems
  - See skills matrix
- Make sure that **all** bugs are in Bugzilla

Tasks

- Code to retrieve remote logs
  - Rob
- Adequate default rotating logs
  - Andy
- Complete the resilience testing framework ASAP
  - Rob
- Must have alarms set up
  - Antony
- Stats must be totally automatic
  - Antony
- More analysis of stats
  - ???
- More frequent meetings
  - Steve F
- Improve exception handling
  - Steve H