# Quattor Working Group
# A (short) status update

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# Quattor WG: Summary

- Mandate:
  - "provide the tools necessary to install, configure, and maintain LCG2 software using Quattor."

- Started in December 2004

- Produced templates and Quattor configuration components for LCG releases appeared since
  - 2.3.0, 2.3.1, 2.4.0
  - latest tag: 2.4.0-7

- Close collaboration with Quattor Core development team

# WG status (I)

Two distinct mechanisms supported for LCG configurations:

a) Using "native" per-service configuration components and templates

- Direct configuration of services using Quattor components
- Available for all LCG services
- Per-service template sets with minimal changes for adaptation
- Templates include system-level configuration

b) Using "yaim" component (ncm-yaim)

- One-to-one mapping of Yaim configuration entries, calls Yaim
- Less ambitious, less complete & flexible (wrt LCG configurations)
- Easier to setup on *already* existing Quattor installations

Goal is to keep both options as close as possible

# WG status (II)

**Next steps:**
- Support for new LCG 2.5.0 (SC3)
  - "native" templates/components early next week
  - yaim – not yet tested (but no major problems expected)
- Refine LCG templates
  - VO configuration, reorganize and simplify templates
- gLite component being worked on
  - On top of gLite config tools
  - First release in ~2 weeks

**Issues:**
- Manpower!
  - "native" templates maintained by single person (Cal)
- gLite <-> Yaim relationship needs to be clarified
  - Will Yaim be extended to configure gLite?
  - If yes, how?
  - Being discussed by gLite developers and LCG deployers

# Quattor Core

- Quattor 1.0.0 released in December 2004
- Tutorial (40 participants, 20 sites) in January 2005

- Team membership changes:
  - Test/Integration responsible left in April 2005 -> release delays!
  - INFN contribution (Fellow) since March 2005
  - New module maintainers (IN2P3, NIKHEF)

- Many contributions (not only RFE's but bugfixes, components!) from "outside" arriving
  - New, and extended NCM service configuration components

- Planned releases:
  - 1.1: next week (RC). Fixes/enhancements accumulated since December
  - 1.2: end of July (TBD). CDB enhancements (namespaces – multiple cluster support), AII enhancements

# Feedback from sites (...yesterday)

- Sites *using* Quattor: **15**
  - Out of ~ 20 testing/trying
  - 12 LCG sites vs. 3 non-LCG sites
  - All LCG sites interested in gLite

- "native" configuration templates/components vs. Yaim:
  - 8 ("native") vs. 3 (Yaim)

- Usage for configuring local services:
  - 8 sites

- # of nodes:
  - Ranging from 4 to 600 (excl. CERN: ~ 2450)
  - Total # ~ 960, plans to grow to ~ 2600
  - Many sites building up capacities

- Most frequent issues:
  - Steep learning curve
  - Documentation (installation, and – missing - HOW-TO's)
  - Structure, and complexity of templates
  - Installation subsystem (AII) limitations in particular partitioning
  - Outdated Quattor Core release

# Summary

- Quattor WG:
    - LCG 2.4.0 configuration available and deployed
    - LCG 2.5.0 WIP
    - gLite WIP - needs clarification on gLite-cfg/Yaim future!
    - Issue: Continued support

- Quattor Core:
    - Recent team changes -> delays in release cycle
    - Next releases: Next week (1.1), and end of July (1.2)
    - Production community growing
    - New community contributions being integrated
    - Useful feedback received and being worked on

# References

- Quattor homepage:
  - http://quattor.org

- Quattor GDB WG homepage:
  - https://svn.lal.in2p3.fr/LCG/QWG/web/index.html

- Mailing lists:
  - project-quattor@cern.ch
  - project-lcg-gdb-quattor-wg@cern.ch

- Bugs, RFE's
  - http://savannah.cern.ch/projects/elfms