

Documentation For 10.0 Release



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Documentation Working Group

Geant 4

GEANT4 Collaboration Meeting

25 Sep 2013

Documentation Working Group responsible for

- User Guides – Primary documentation for GEANT4
- Web Pages – Mostly static, individual maintainers
- Documentation for Examples

Deadline for Documentation Updates is 30 November 2013

Final versions will be built and released 6 December 2013

MT Conversion and Compliance

Information currently on TWiki pages must be moved into official Documentation Guides

Application Guide Top-level migrations, #include's, new classes

Toolkit Guide Process, model, cross-section migrations; use of `static const` vs. `G4ThreadLocal`; multithread safety

Installation Guide Building and running MT apps; CMake settings; platform/compiler limitations

Ensure interface changes in classes are documented *in situ*, not just in a separate "MT" chapter

TWiki should be maintained as resource for developers, if requirements change after 10.0 release

Expanded documentation of CMake features, configuration variables

New sections on building multithreaded toolkit, MT applications

No more granular libraries!

Simple Make support for applications will continue

Class Documentation

(User Request)

Toolkit Guide and **Application Guide**

All class descriptions will include sentence whether newly created objects are owned by user code, or put into registry with centralized ownership

Functions which take pointer arguments should specify whether ownership is taken, or left with user code

Physics Updates

New description of FTF model provided by V. Uzhinskiy

Need updates to muon capture from K. Genser

Will need description of lattice and phonon support for next year (may be separate document as part of layered package)

Web Pages

“Results and Publications” page just an index to other pages

- Should include important highlights at top level
- Should not include link to SB minutes (belongs in Collaboration area)
- Should include advertising of user-community GEANT4 tools (Topaz, NEST, GATE, G4Beamline?)

Still need to work on this!

Should Web pages be migrated to Drupal or equivalent?

See talk from Plenary 2, Monday morning