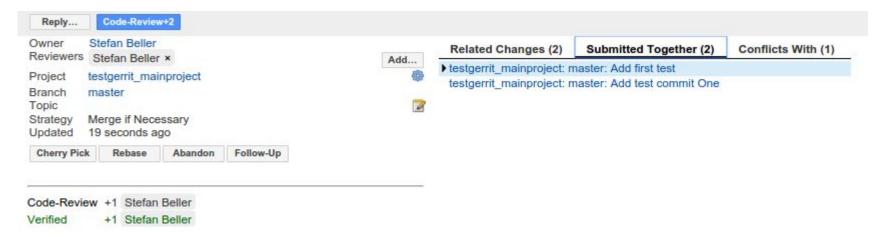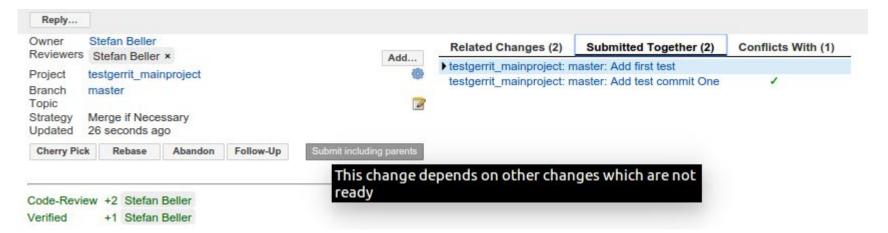# Coupling Changes in Gerrit

2015-11-07, Stefan Beller, <sbeller@google.com>

The Merge Queue is gone

- The SUBMITTED state is gone
  - No more "Submitted, Merge Pending"
  - Only states: New, Draft, Merged, Abandoned
- Immediate feedback!
  - Either you can be sure it merged,
  - or an error pops up in the change screen

Submission of ancestors

- Typical workflow:
    - Submit in backwards order
    - Piling up pending changes
    - On submission of the first change, all are merged (hopefully)
- Replaced by submission of ancestors
    - "Submit this change and 5 ancestors"
    - pseudo atomic

Submission of ancestors

Submission of ancestors
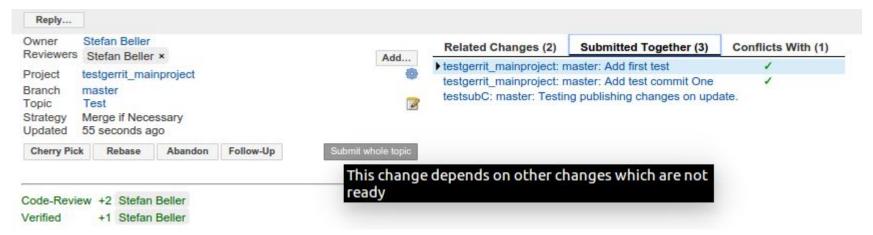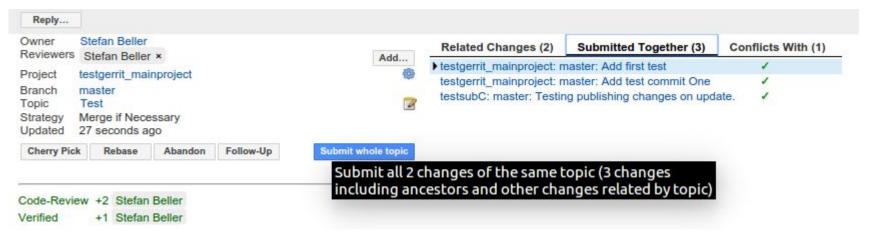
Submission of ancestors

Submission of topics

- A new workflow
    - Submit whole topic
    - "Submit all 5 changes of the same topic (7 changes including ancestors and other changes related by topic)"
- Submission coupled by topics and ancestors thereof
    - works across repositories
    - pseudo atomic

Submission of topics

Submission of topics

Atomicity in Android

Superproject subscriptions

- Have Android in a superproject

    - All components in Submodules

    - Changes in submodules trigger automatic update in the superproject

    - Coupling by topic across components, generates one superproject commit

- Benefits:

    - Atomic fetch

    - Less fetches (only updated submodules)

- Gerrit is ready, Git not yet.

Git submodules

- Improve Git

    - Performance (-j 16 for submodule related operations)

    - Better UI

- Gerrit ?

    - Better UI ? (show log instead of $SHA1..$SHA1)

    - Better configuration for superprojects

Thanks, Questions?

Was: Coupling Changes in Gerrit

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