



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

Reply... Code-Review+2

Owner [Stefan Beller](#)

Reviewers [Stefan Beller](#) ×

Project [testgerrit_mainproject](#)

Branch [master](#)

Topic

Strategy Merge if Necessary

Updated 19 seconds ago

Cherry Pick Rebase Abandon Follow-Up

Add...

Related Changes (2) Submitted Together (2) Conflicts With (1)

- ▶ [testgerrit_mainproject: master: Add first test](#)
- [testgerrit_mainproject: master: Add test commit One](#)

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Submission of ancestors

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Topic

Strategy Merge if Necessary

Updated 26 seconds ago

[Cherry Pick](#) [Rebase](#) [Abandon](#) [Follow-Up](#) [Submit including parents](#)

Add...

Related Changes (2)	Submitted Together (2)	Conflicts With (1)
▶ testgerrit_mainproject: master: Add first test		
testgerrit_mainproject: master: Add test commit One		✓

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This change depends on other changes which are not ready

Submission of ancestors

Reply...

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Project [testgerrit_mainproject](#)

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Topic

Strategy Merge if Necessary

Updated 26 seconds ago

Cherry Pick Rebase Abandon Follow-Up **Submit including parents**

Add...

Related Changes (2)	Submitted Together (2)	Conflicts With (1)
▶ testgerrit_mainproject: master: Add first test		✓
testgerrit_mainproject: master: Add test commit One		✓

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Submit patch set 2 and ancestors (2 changes altogether) into master

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

Reply...

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Project [testgerrit_mainproject](#)
Branch [master](#)
Topic [Test](#)
Strategy Merge if Necessary
Updated 55 seconds ago

[Cherry Pick](#) [Rebase](#) [Abandon](#) [Follow-Up](#) [Submit whole topic](#)

Add...

Related Changes (2)	Submitted Together (3)	Conflicts With (1)
▶ testgerrit_mainproject: master: Add first test		✓
testgerrit_mainproject: master: Add test commit One		✓
testsubC: master: Testing publishing changes on update.		

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This change depends on other changes which are not ready

Submission of topics

Reply...

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Project [testgerrit_mainproject](#)
Branch [master](#)
Topic [Test](#)
Strategy Merge if Necessary
Updated 27 seconds ago

Cherry Pick Rebase Abandon Follow-Up

Add...

Related Changes (2)	Submitted Together (3)	Conflicts With (1)
▶ testgerrit_mainproject: master: Add first test		✓
testgerrit_mainproject: master: Add test commit One		✓
testsubC: master: Testing publishing changes on update.		✓

Submit whole topic

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Submit all 2 changes of the same topic (3 changes including ancestors and other changes related by topic)

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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