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# Incident documentation/20181107-TwoColConflict

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## Summary

Hook handler code in the TwoColConflict extension resulted in users who had the TwoColConflict Beta feature enabled facing core's edit conflict resolution interface when trying to preview or diff any edit.

## Timeline

- 2018-11-02 14:52 (MEZ): [gerrit:466937](#) containing the bug was merged.
- 2018-11-06 21:40 (UTC): The wmf/1.33.0-wmf.3 branch containing the bug went live on group0.
- 2018-11-07 16:59 (MEZ): A QWERTY team member started running into the issue. The issue was identified and fixed, and the backport [gerrit:472175](#) scheduled for the next days SWAT.
- 2018-11-07 20:12 (UTC): The unpatched wmf/1.33.0-wmf.3 branch went live on group1.
- Reports started coming in (e.g. [phab:T209012](#)).
- 2018-11-08 11:49 (MEZ): The extension got disabled via [gerrit:472409](#).
- 2018-11-08 13:29 (MEZ): The fix got backported.
- The extension got re-enabled step by step.

## Conclusions

The team expected the MediaWiki core's tests to report a failure as fundamental as not being able to preview/diff an edit. This did not happened, because:

1. The relevant code in core is not covered by PHPUnit tests (see <https://doc.wikimedia.org/cover/mediawiki-core/includes/EditPage.php.html> [↗](#)).
2. A dedicated browser test for the preview/diff functionality does not exist.
3. The extensions CI was not set up to run core's browser tests.
4. Even if, the browser tests must then run with the Beta feature enabled.

## Links to relevant documentation

- <https://docs.google.com/document/d/1fEHquQx9CmGiWNCbok3OJKuP9sd41GMzm5iLSItVtYQ/> [↗](#)

## Actionables

*Explicit next steps to prevent this from happening again as much as possible, with Phabricator tasks linked for every step.*

**NOTE:** Please add the [#wikimedia-incident](#) [↗](#) Phabricator project to these follow-up tasks and move them to the "follow-up/actionable" column.

- Check if there really are browser tests in core covering the relevant feature set, e.g. "the user wants to create a new talk page, but preview it first, uninterrupted".
  - Result: Yes, 7 test cases exist in cores tests/selenium/specs/page.js.
- Run the core browser tests on a local dev machine and make sure at least one fails with the bug in place.
  - Result: Yes, 1 test case fails, the "should be undoable" one. Dedicated test cases for preview/diff do not

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exist, though.

- Add a dedicated preview test case to core that fails with the bug in place.
  - [phab:T210758](#) ([gerrit:476585](#))
- Change the TwoColConflict CI configuration to run core's browser tests as part of every merge process, with the Beta feature enabled.
  - [phab:T212214](#)

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