## Redmine - Patch #18134

# Issues with svn:mergeinfo property values and r13443 rails-4.1 rebase.

2014-10-20 06:05 - Mischa The Evil

Status:	New	Start date:	
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	Code cleanup/refactoring	Estimated time:	0.00 hour
Target version:			

#### Description

After some Redmine core SCM log reviewing I noticed several issues:

- 1. related to svn:mergeinfo properties:
  - 1. [rails-4.1 branch] <u>r13443</u> rebase of rails-4.1 branch included rails-4.1 backport commits to trunk<sup>1</sup> (in svn:mergeinfo only obviously): need to reverse-merge them for svn:mergeinfo
  - 2. [rails-4.1 branch] contains four commits merged from trunk<sup>2</sup>: this is not reflected in the respective svn:mergeinfo property
  - 3. [trunk] three commits were backported from rails-4.1 branch to trunk<sup>3</sup>: this is not reflected in the respective syn:mergeinfo property
  - 4. [2.6-stable branch] contains one commit merged from trunk (<u>r13439</u>): this is not reflected in the respective svn:mergeinfo property
- 2. related to the <u>r13443</u> rails-4.1 rebase:
  - 1. [rails-4.1 branch]  $\underline{r13443}$  rebase is missing commits from trunk<sup>4</sup> ((start rails-4.1)..(start rebase)): still needs to be *merged*

So I checked out Redmine svn source and started fixing them one after another.

The first four are changes to the svn:mergeinfo values only (svn merge ... --record-only) and the last is a complete merge (thus with svn:mergeinfo property update) of fourteen commits where two files had some simple conflicts to be solved manually:

• 1. reverse-merge-backport-commits-on-trunk\_against\_rails-4.1\_at\_r13451.patch: view details...view details...

• 2. merge-merged-in-41-from-trunk\_to\_rails-4.1\_at\_r13451.patch: view details...view details...

```
Index: .
--- . (revision 13451)
+++ . (working copy)

Property changes on: .
```

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```
Modified: svn:mergeinfo
Merged /trunk:r13302,13306,13311,13332

Before this change, the svn:mergeinfo value for rails-4.1 branch was:
```

```
/trunk:13333-13404,13409-13439
```

after it, it looks like:

```
/trunk:13302,13306,13311,13332-13404,13409-13439
```

• 3. merge-backported-in-trunk-from-41\_to\_trunk\_at\_r13451.patch: view details...view details...

Before this change, the svn:mergeinfo value for trunk was:

```
n/a for rails-4.1
after it, it looks like:
/sandbox/rails-4.1:13296,13313,13315
```

• 4. merge-merged-in-2.6-stable-from-trunk\_to\_2.6-stable\_at\_r13451.patch: view details...view details...

Before this change, the svn:mergeinfo value for 2.6-stable branch was:

```
n/a for 2.6-stable

after it, it looks like:

/trunk:13439
```

• 5. merge-missing-in-41-from-trunk\_to\_rails-4.1\_at\_r13451.patch: view details...view details...

This only shows the merge tracking property changes; code changes are omitted to save some space...

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```
Index: .
--- . (revision 13451)
+++ . (working copy)

Property changes on: .

Modified: svn:mergeinfo
    Merged /trunk:r13284-13285,13287,13299,13303,13322-13327,13329-13331
Index: ...
...

Before this change, the svn:mergeinfo value for rails-4.1 branch was:

/trunk:13302,13306,13311,13332-13404,13409-13439

after it, it looks like:

/trunk:13284-13285,13287,13299,13302-13303,13306,13311,13322-13327,13329-13404,13409-13439
```

If these changes are applied then:

- rails-4.1 branch contains all commits on trunk between the creation of the branch upto r13439 (fully rebased)
- svn:merginfo property was already introduced around 2.4-stable and custom fields branch
- svn:merginfo property is started being reliably used with 2.6-stable (last 2.x?)
- svn:merginfo property is having full history of rails-4.1 and current trunk
- svn:merginfo property is having full history of and is reliably used with new major 3.0-stable and up

All the patches are taken against a checkout of the respective branches at <u>r13451</u>. If more information is need, please let me know. I have a bunch of notes taken during the inspection, which I could attach if needed as well. I hope this is of any use...

Regards,

Mischa.

<sup>1</sup> <u>r13407</u> and <u>r13408</u>

<sup>2</sup> <u>r13302</u>, <u>r13306</u>, <u>r13311</u> and <u>r13332</u>

<sup>3</sup> <u>r13296</u>, <u>r13313</u> and <u>r13315</u>

4 r13284, r13285, r13287, r13299, r13303, r13322, r13323, r13324, r13325, r13326, r13327, r13329, r13330 and r13331

<sup>5</sup> config/locales/de.yml and Gemfile

### Related issues:

Related to Redmine - Defect #18174: Rails-4.1 branch merge into trunk (r13482...

Closed

# History

## #1 - 2014-10-20 06:31 - Toshi MARUYAMA

Sorry. Because I use hgsubversion and "hg graft" or Mercurial Queues to commit to Subversion, it lose svn property.

I don't know how to apply attached patches. Could you tell me?

# #2 - 2014-10-20 07:28 - Mischa The Evil

Not a problem. svn:mergeinfo properties can only be changed using svn 1.5.x+ (preferably 1.7.x) clients as far as I know. Neither shouldn't they be changed manually too (unless...), instead svn merge --record-only (or the reverse-merge option) should be used.

I am aware of the fact you're using hg for committing to Redmine. I don't mind to keep track of these changes because hg cannot maintain this merge tracking info though and provide patches for it once in a while...

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Most info about svn merging in general (thus not about hg -> svn) is at <a href="http://svnbook.red-bean.com/en/1.7/svn.branchmerge.basicmerging.html#svn.branchmerge.basicmerging.mergeinfo.">http://svnbook.red-bean.com/en/1.7/svn.branchmerge.basicmerging.html#svn.branchmerge.basicmerging.mergeinfo.</a>

Regards,

Mischa.

#### #3 - 2014-10-20 07:40 - Toshi MARUYAMA

Thank you for your reply.

I use CentOS6 and it's svn version 1.6.11.

```
$ LANG=C svn --version
svn, version 1.6.11 (r934486)
    compiled Mar 6 2014, 10:49:10
```

### I tried applying attached patches.

```
$ LANG=C svn info
Path: .
URL: https://svn.redmine.org/redmine/trunk
Repository Root: https://svn.redmine.org/redmine
Repository UUID: e93f8b46-1217-0410-a6f0-8f06a7374b81
Revision: 13458
Node Kind: directory
Schedule: normal
Last Changed Author: marutosijp
Last Changed Rev: 13458
Last Changed Date: 2014-10-20 13:15:11 +0900 (Mon, 20 Oct 2014)
$ patch -p0 < ~/Desktop/l.\ reverse-merge-backport-commits-on-trunk_against_rails-4.1_at_r13451.patch
patch: **** Only garbage was found in the patch input.
$ svn status
$</pre>
```

How to change svn:mergeinfo properties by svn client?

#### #4 - 2014-10-24 05:41 - Mischa The Evil

- Related to Defect #18174: Rails-4.1 branch merge into trunk (r13482) reverts trunk commits added

#### #5 - 2014-10-27 07:52 - Mischa The Evil

Toshi MARUYAMA wrote:

I tried applying attached patches.

That won't work. The patches (except <u>5. merge-missing-in-41-from-trunk to rails-4.1 at r13451.patch</u> which contains actual file changes [now integrated via <u>r13504</u> for <u>#18174</u>]) contain the output of svn diff where no files in the repo are touched, only the values of the svn property svn:mergeinfo are changed (svn repo metadata). Using svn diff these svn property changes are included in the output diff, but patch doesn't understand this svn metadata as it works on files.

How to change svn:mergeinfo properties by svn client?

In a normal situation where svn merge is used for (reverse-)merges these svn:mergeinfo values are updated automatically. For this case, where we afterwards need to modify the svn:mergeinfo values only (watch for --record-only), I'll give some examples below. What's important to note is that (generally) all these changes are made on a local checkout. As such they need to be committed to remote. This brings me to the drawback of changing these values afterwards in the here mentioned ways: it will create one or more *blank* commits changing only these properties. I don't know if it's worth the fuzz if the merge tracking features of svn are not actually used.

I think this should be discussed and decided among the lead and other committers first before these property changes get actually committed (also note that the patches I provided here are outdated already).

The examples:

- This can be used to fix point 1.1 in this issues description.
  - record-only reverse-merge commits <u>r13407</u> and <u>r13408</u> (and <u>r13406</u> and <u>r13405</u> since they are not existing on trunk) from remote (local might work too?) trunk to local checkout of rails-4.1 branch

```
$ svn co https://svn.redmine.org/redmine/sandbox/rails-4.1 redmine-rails-4.1
$ cd redmine-rails-4.1
```

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```
$ svn merge -r 13408:13404 https://svn.redmine.org/redmine/trunk . --record-only
$ svn status
$ svn diff
```

- This can be used to fix point 1.3 in this issues description.
  - o record-only merge commit r13296 from remote (local could work too ?) rails-4.1 branch to local checkout of trunk

```
$ svn co https://svn.redmine.org/redmine/trunk redmine-trunk
$ cd redmine-trunk
$ svn merge https://svn.redmine.org/redmine/sandbox/rails-4.1 -c 13296 . --record-only
$ svn status
$ svn diff
```

This can be used to fix point 1.3 in this issues description in a manual way using svn propedit (with an identical result as the previous example).
 manually change svn:mergeinfo property values using svn propedit command on local checkout of rails-4.1 branch

```
$ svn co https://svn.redmine.org/redmine/sandbox/rails-4.1 redmine-rails-4.1
$ cd redmine-rails-4.1
$ svn propedit svn:mergeinfo .
{
    # default editor comes up...
    # manually change trunk line:
        - from: /trunk:13333-13439
        - to : /trunk:13333-13404,13409-13439
    # exit editor
}
$ svn status
$ svn diff
```

- · additional command examples
  - o more (read-only) commands useful when working with svn:mergeinfo properties, on local checkout of rails-4.1 branch

```
$ svn co https://svn.redmine.org/redmine/sandbox/rails-4.1 redmine-rails-4.1
$ cd redmine-rails-4.1
# retrieve svn:mergeinfo values using propget
$ svn propget svn:mergeinfo .
    /sandbox/custom_fields:12320-12324,12326-12399
    /trunk:13333-13439
# retrieve list of commits merged from trunk
$ svn mergeinfo --show-revs merged ^/trunk .
   > list of revisions merged from trunk:
    r13334
   r13335
   r13336
    see below
# retrieve list of commits eligible for merging from trunk
$ svn mergeinfo --show-revs eligible ^/trunk .
   > list of revisions eligible for merging from trunk:
   r13284
   r13285
   r13287
    . . .
    see below
  <<
```

I'll add the full and annotated output of the last two commands collapsed due to the length. It's informative because it shows the actual problems with the merge tracking metadata of the rails-4.1 branch.

svn mergeinfo --show-revs merged ^/trunk .svn mergeinfo --show-revs merged ^/trunk .

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```
>>
  r13334
   r13335
   r13336
   r13337
   r13338
   r13339
   r13340
   r13343
   r13344
   r13345
   r13346
   r13350
   r13351
   r13352
   r13353
   r13354
   r13357
   r13358
   r13359
   r13360
   r13361
   r13362
   r13363
   r13364
   r13365
   r13367
   r13368
   r13369
   r13374
   r13375
   r13378
   r13379
   r13381
   r13383
   r13385
   r13386
   r13390
   r13391
   r13392
   r13393
   r13394
   r13395
   r13396
   r13398
   r13399
   r13400
   r13401
   r13402
   r13403
   r13404
   -- rails-4.1 backport commits, reported in #18134 1.1
   r13407
   r13408
   r13409
   r13410
   r13411
   r13412
   r13413
   r13415
   r13416
   r13417
   r13418
   r13419
   r13420
   r13421
   r13422
   r13423
   r13424
   r13425
   r13426
   r13427
   r13428
r13429
```

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```
r13430
r13432
r13436
r13439
```

svn mergeinfo --show-revs eligible ^/trunk .svn mergeinfo --show-revs eligible ^/trunk .

```
-- reported in #18134 2.1 & #18174
   r13284
   r13285
   r13287
   r13299
   -- backport of r13296 from rails-4.1, reported in #18134 1.3
   r13301
   -- merged into rails-4.1 in r13304, reported in #18134 1.2
   r13302
   -- reported in #18134 2.1 & #18174
   r13303
   -- merged into rails-4.1 in r13307, reported in \#18134 1.2
   r13306
   r13311
   -- reported in #18134 2.1 & #18174
   r13322
   r13323
   r13324
   r13325
   r13326
   r13327
   r13329
   r13330
   r13331
   -- merged into rails-4.1 in r13333, reported in #18134 1.2
   r13332
    -- trunk commits between rebase at r13439 and r13482 which were not in rails-4.1 branch when it got re-int
egrated with r13482 (after #18134 creation)
   -- TODO: these are still possibly corrupted by rails-4.1 branch merge -->> DONE: commits checked, they are
not affected by the r13482 merge.
   r13449
   r13450
   r13451
   r13457
   r13458
   r13461
   r13464
   r13466
   r13467
   r13468
   r13471
   r13477
   r13478
   r13479
   -- merge and post-merge of rails-4.1 re-integration
   -- not a problem; rails-4.1 can now be considered stale
   r13482
   r13483
   r13484
   r13485
   r13486
   r13487
   r13488
   r13489
   r13490
   r13491
   r13492
   r13493
   r13495
   r13496
   r13497
   r13498
   r13499
   r13500
  r13501
```

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```
r13502
r13503
r13504
r13505
r13506
r13508
r13509
r13510
```

There's one main reference to all the commands I used here: Version Control with Subversion (AKA the SVN book)

That's it. I think this explains the things pretty well. If you have more questions, please feel free to ask.

Kind regards,

Mischa.

### **Files**

1. reverse-merge-backport-commits-on-trunk_against_rails-4.1_at_r1	238445 Bydatsch	2014-10-20	Mischa The Evil
2. merge-merged-in-41-from-trunk_to_rails-4.1_at_r13451.patch	288 Bytes	2014-10-20	Mischa The Evil
3. merge-backported-in-trunk-from-41_to_trunk_at_r13451.patch	294 Bytes	2014-10-20	Mischa The Evil
4. merge-merged-in-2.6-stable-from-trunk_to_2.6-stable_at_r13451.pd	22710/1Bytes	2014-10-20	Mischa The Evil
5. merge-missing-in-41-from-trunk_to_rails-4.1_at_r13451.patch	15.7 KB	2014-10-20	Mischa The Evil

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