

Redmine - Defect #17096

Issue emails cannot be threaded by some mailers due to inconsistent Message-ID and References field

2014-06-05 06:55 - Toshi MARUYAMA

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Go MAEDA	% Done:	0%
Category:	Email notifications	Estimated time:	0.00 hour
Target version:	4.1.0	Affected version:	2.4.4
Resolution:	Fixed		

Description

Redmine 1.4:

Issue adding:

Message-Id: <redmine.issue-1.20140605133813@example.net>

Issue editing:

Message-Id: <redmine.journal-1.20140605134129@example.net>
References: <redmine.issue-1.20140605133813@example.net>

Redmine 2.4:

Issue adding:

Message-ID: <redmine.issue-7.20140605044637.b10ff7cb511bccec@example.net>
References: <redmine.issue-7.20140605044637@example.net>

Issue editing:

Message-ID: <redmine.journal-8.20140605044912.bdbae389b638e71d@example.net>
References: <redmine.issue-7.20140605044637@example.net>

Redmine 2.4 issue adding "Message-ID" and editing "References" are not equal.

So, some mailers cannot thread issue mails.

Related issues:

Related to Redmine - Feature # 5037: Role-based issue custom field visibility	Closed	2010-03-10
Related to Redmine - Feature # 26791: Send individual notification mails per ...	Closed	
Related to Redmine - Feature # 13111: New setting to include the status chang...	Closed	2008-02-04

Associated revisions

Revision 17927 - 2019-03-04 15:36 - Go MAEDA

Issue emails cannot be threaded by some mailers due to inconsistent Message-ID and References field (#17096).

Patch by Go MAEDA.

History

#1 - 2014-06-05 06:59 - Toshi MARUYAMA

- Description updated

#2 - 2014-06-05 07:16 - Toshi MARUYAMA

- Subject changed from Issue mails cannot be sorting to Issue mails cannot be threaded
- Description updated

#3 - 2014-06-05 13:43 - Toshi MARUYAMA

Behavior changed by #5037 r12012.

test/unit/mailer_test.rb

```
@@ -231,19 +231,21 @@  
  end
```

```
  def test_issue_add_message_id  
- issue = Issue.find(1)  
- Mailer.issue_add(issue).deliver  
+ issue = Issue.find(2)  
+ Mailer.deliver_issue_add(issue)  
  mail = last_email  
- assert_equal Mailer.message_id_for(issue), mail.message_id  
- assert_nil mail.references  
+ assert_match /^redmine\.issue-2\.20060719190421\[a-f0-9\]+@example\.net/, mail.message_id  
+ assert_include "redmine.issue-2.20060719190421@example.net", mail.references  
  end
```

```
  def test_issue_edit_message_id  
- journal = Journal.find(1)  
- Mailer.issue_edit(journal).deliver  
+ journal = Journal.find(3)  
+ journal.issue = Issue.find(2)  
+  
+ Mailer.deliver_issue_edit(journal)  
  mail = last_email  
- assert_equal Mailer.message_id_for(journal), mail.message_id  
- assert_include Mailer.message_id_for(journal.issue), mail.references  
+ assert_match /^redmine\.journal-3\.d+\.[a-f0-9\]+@example\.net/, mail.message_id  
+ assert_include "redmine.issue-2.20060719190421@example.net", mail.references  
  assert_select_email do  
    # link to the update  
    assert_select "a[href=?]",
```

#4 - 2014-06-05 14:33 - Toshi MARUYAMA

- Target version set to 2.6.0

#5 - 2014-06-05 15:16 - Toshi MARUYAMA

- Target version changed from 2.6.0 to 2.5.2

#6 - 2014-06-05 15:18 - Toshi MARUYAMA

- File mail-17096-01.diff added

This is patch to fix.

#7 - 2014-06-08 11:47 - Toshi MARUYAMA

- File mail-17096-20140608.diff added

This is new patch.

In note 6 patch, mail receiver can guess user id.

#8 - 2014-06-26 22:01 - Jean-Philippe Lang

- Subject changed from Issue mails cannot be threaded to Issue mails cannot be threaded by some mailers

As far as I can see, this patch only works if the same users are notified during all the issue thread. But this is not the case.

#9 - 2014-06-27 08:53 - Toshi MARUYAMA

Jean-Philippe Lang wrote:

| *As far as I can see, this patch only works if the same users are notified during all the issue thread. But this is not the case.*

Yes, it is same behavior before #5037.

Note-7 patch message id:

Issue adding:

Message-ID: <redmine.issue-72.20140627064350.1ebc022e@example.net>

Issue editing:

Message-ID: <redmine.journal-142.20140627064557.1ebc022e@example.net>

References: <redmine.issue-72.20140627064350.1ebc022e@example.net>

#10 - 2014-07-05 12:33 - Jean-Philippe Lang

No it's not the same behaviour as before #5037. Before #5037, we always had a single email notification, the first message-id and all references were fixed, eg. <redmine.issue-72.20140627064350@example.net>.

With the patch in note-7 applied, the references header changes if a new custom field is added or if you change the permissions on custom fields. And that breaks all the thread. Exemple:

Issue creation:

Message-ID: <redmine.issue-16507.20140705102246.3ecc5e01@redmine.org>

First update (OK):

Message-ID: <redmine.journal-55676.20140705102328.3ecc5e01@redmine.org>
References: <redmine.issue-16507.20140705102246.3ecc5e01@redmine.org>

After adding a new custom field, you get:

Message-ID: <redmine.journal-55677.20140705102736.49bb14f7@redmine.org>
References: <redmine.issue-16507.20140705102246.49bb14f7@redmine.org>

#11 - 2014-07-06 01:53 - Toshi MARUYAMA

Jean-Philippe Lang wrote:

*With the patch in note-7 applied, the references header changes if a new custom field is added or if you change the permissions on custom fields.
And that breaks all the thread.*

Yes. But, it keeps while custom field condition.

In other case before #5037, if user not get issue creating mail, then by watching user get issue editing mail, mail thread is broken on some mailer.

This issue is mail thread broken on some mail in spite of getting issue creating mail and not changing custom field condition.

#12 - 2014-07-06 12:28 - Jean-Philippe Lang

- Target version changed from 2.5.2 to Candidate for next major release

#13 - 2014-09-08 16:09 - Toshi MARUYAMA

#1401#note-11

Do you have a documentation about that ?

- <http://comments.gmane.org/gmane.comp.version-control.mercurial.devel/70052>
- <http://www.jwz.org/doc/threading.html>

#14 - 2015-06-12 08:30 - Toshi MARUYAMA

- Related to Feature #5037: Role-based issue custom field visibility added

#15 - 2016-09-25 16:45 - T E

Hi,

are there any news on this? I am having problems with my notification mails, too and would love to see that fixed.

#16 - 2016-12-02 22:49 - Lukas Zapletal

| are there any news on this? I am having problems with my notification mails, too and would love to see that fixed.

Yeah is gmail related to this? Having troubles too.

#17 - 2017-09-08 09:53 - Go MAEDA

I think that adding consistent Message-Id and References filed will be easier if per user notification sending is implemented by #26791. We don't have to use random_hex in Mailer.token_for method. Instead, we can use EmailAddress#id or some hash value generated from an email address.

The following is an example of the idea.

Issue adding:

Message-Id: <redmine.issue-#{object.id}.#{timestamp}.#{email_address.id}@example.net>

Issue editing:

Message-Id: <redmine.journal-#{object.id}.#{timestamp}.#{email_address.id}@example.net>

References: <redmine.issue-#{object.id}.#{timestamp}.#{email_address.id}@example.net>

#18 - 2017-09-08 09:54 - Go MAEDA

- Related to Feature #26791: Send individual notification mails per mail recipient added

#19 - 2019-02-17 14:57 - Go MAEDA

- File 17096-fix-emails-threading.patch added

Go MAEDA wrote:

| I think that adding consistent Message-Id and References filed will be easier if per user notification sending is implemented by #26791. We don't
| have to use random_hex in Mailer.token_for method. Instead, we can use EmailAddress#id or some hash value generated from an email address.

I wrote a patch.

In Redmine 3.4, Redmine may generate multiple notification messages and each message is sent to multiple recipients grouped by custom fields visibility. For example, if there are 6 recipients and they are grouped to 3 groups by custom fields visibility, Redmine generates 3 messages and then pass those to a mail server. Of course, each message has 2 recipients.

Since multiple messages are generated at once when updating one issue, Redmine adds a random key to the message-id to ensure the message-id is unique. Because the random key is never stored, Redmine cannot reproduce the message-id generated in the past and cannot set exact id to the References field in the notification message when the issue is updated. This is why emails are not properly threaded.

In the latest Redmine 4.0, one message is always sent to one recipient. Since one message is never addressed to multiple recipients, we can use recipient user information like user_id. If we use user_id instead of a random key to make a unique message-id, we can set the correct and exact value to References field in the message when the issue is updated because message ids generated in the past is always reproducible. By doing that, emails should be threaded properly.

The attached patch uses user_id to generate unique message-ids.

Issue added:

Message-Id: <redmine.issue-#{issue.id}.#{issue.created_on}.#{user_id}@example.net>

Issue updated:

Message-Id: <redmine.journal-#{journal.id}.#{journal.created_on}.#{user_id}@example.net>

References: <redmine.issue-#{issue.id}.#{issue.created_on}.#{user_id}@example.net>

#20 - 2019-02-19 23:25 - Marius BALTEANU

- *Related to Feature #13111: New setting to include the status changes in issue mail notifications subject added*

#21 - 2019-03-03 10:01 - Go MAEDA

- *File 17096-fix-emails-threading-v2.patch added*

Updated the patch to apply cleanly to the current trunk (r17913).

#22 - 2019-03-03 14:22 - Go MAEDA

- *Target version changed from Candidate for next major release to 4.1.0*

Setting the target version to 4.1.0.

#23 - 2019-03-04 14:30 - Go MAEDA

- *Subject changed from Issue mails cannot be threaded by some mailers to Notification emails are not threaded in some email clients due to referencing a nonexistent Message-ID*

#24 - 2019-03-04 15:11 - Go MAEDA

- *Subject changed from Notification emails are not threaded in some email clients due to referencing a nonexistent Message-ID to Issue emails cannot be threaded by some mailers due to inconsistent Message-ID and References field*

#25 - 2019-03-04 15:40 - Go MAEDA

- *Status changed from New to Closed*

- *Assignee set to Go MAEDA*

- *Resolution set to Fixed*

Committed the patch. The new Message-ID formats are as follows:

Issue added:

Message-Id: <redmine.issue-#{issue.id}.#{issue.created_on}.#{user_id}@example.net>

Issue updated:

Message-Id: <redmine.journal-#{journal.id}.#{journal.created_on}.#{user_id}@example.net>

References: <redmine.issue-#{issue.id}.#{issue.created_on}.#{user_id}@example.net>

Files

mail-17096-01.diff	4.64 KB	2014-06-05	Toshi MARUYAMA
mail-17096-20140608.diff	4.71 KB	2014-06-08	Toshi MARUYAMA
17096-fix-emails-threading.patch	7.58 KB	2019-02-17	Go MAEDA
17096-fix-emails-threading-v2.patch	7.48 KB	2019-03-03	Go MAEDA