

Redmine - Feature #19131

Use a better content type for attachments created with application/octet-stream

2015-02-18 20:54 - Felix Schäfer

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Jean-Philippe Lang	% Done:	0%
Category:	Email receiving	Estimated time:	0.00 hour
Target version:	3.0.0		
Resolution:	Fixed		
Description			
<p>Some email clients will always send attachments with a mime-type of application/octet-stream instead of correctly setting the attachment of the mime-type. We are aware of Outlook 15 showing this behaviour, but it might not be the only one.</p> <p>This is a problem in the case where the front-end web server behind which Redmine runs sends the X-Content-Type-Options: nosniff header, which stops the browser from trying to guess the mime type of files the server sends it (this header is set on the Planio platform for security reasons).</p> <p>This combination leads to thumbnails not being shown:</p> <ul style="list-style-type: none">- Redmine blindly trusts the mime-type set by the email client source:/branches/2.6-stable/app/models/mail_handler.rb#L276- This mime-type gets stored to the DB- And is served back as the Content-Type of the corresponding thumbnail <p>source:/branches/2.6-stable/app/controllers/attachments_controller.rb#L63</p> <ul style="list-style-type: none">- The browser tries to fetch the thumbnail but gets a file with the Content-Type set to application/octet-stream, which isn't considered an image and a broken link/broken image is shown.			

Associated revisions

Revision 14034 - 2015-02-19 18:46 - Jean-Philippe Lang

Send a better content type than application/octet-stream (#19131).

Revision 14036 - 2015-02-19 20:01 - Jean-Philippe Lang

Merged r14034 (#19131).

History

#1 - 2015-02-18 21:01 - Felix Schäfer

- File 19131.patch added

The attached patch tries to better guess the mime type of attachments incoming via email if the mime-type of the attachment is set to application/octet-stream.

If this is an acceptable solution, I would also add a migration to try to find a better mime type than application/octet-stream for existing attachments with that content type.

#2 - 2015-02-18 21:12 - Jean-Philippe Lang

Any reason to do this in the mail handler and not in the Attachment model? If an image is uploaded via a browser or the API with an incorrect content

type, thumbnails and inline images might be broken as well.

#3 - 2015-02-18 21:16 - Felix Schäfer

We have only observed this for emails, but this can be moved to the model without problem too. I will adapt the patch in consequence.

#4 - 2015-02-18 21:21 - Jean-Philippe Lang

Or maybe just store the provided content type and guess a better one when a serving a file, just like it's already done when an attachment have a blank content type. No need for a migration each time we change the guess rule.

#5 - 2015-02-18 21:23 - Jean-Philippe Lang

Index: app/controllers/attachments_controller.rb

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--- app/controllers/attachments_controller.rb (revision 13994)

+++ app/controllers/attachments_controller.rb (working copy)

@@ -183,7 +183,7 @@

```
def detect_content_type(attachment)
  content_type = attachment.content_type
- if content_type.blank?
+ if content_type.blank? || content_type == "application/octet-stream"
  content_type = Redmine::MimeType.of(attachment.filename)
end
content_type.to_s
```

#6 - 2015-02-18 21:27 - Felix Schäfer

This is in fact exactly what we have done for Planio until we had worked out a solution here. I had thought the create-time guessing better as this would have to be done only once for each attachment, but that works well too and avoids additional migrations.

#7 - 2015-02-19 05:10 - Toshi MARUYAMA

OpenProject (**GPL3**) uses another approach of attachment detection.

<https://github.com/opf/openproject/commit/fb096b0c86eec9bf49612ef6c8768000c3099841>

#8 - 2015-02-19 11:54 - Jean-Philippe Lang

Toshi MARUYAMA wrote:

| *OpenProject (GPL3) uses another approach of attachment detection.*

Sounds a bit overkill to me.

#9 - 2015-02-19 18:47 - Jean-Philippe Lang

- *Tracker changed from Defect to Feature*
- *Subject changed from Don't trust MUAs to always set the correct mime-type for attachments to Use a better content type for attachments created with application/octet-stream*
- *Status changed from New to Resolved*
- *Assignee set to Jean-Philippe Lang*
- *Target version set to 3.0.0*
- *Resolution set to Fixed*

Change committed in r14034.

#10 - 2015-02-19 20:07 - Jean-Philippe Lang

- *Status changed from Resolved to Closed*

#11 - 2015-02-19 20:29 - Felix Schäfer

Thanks!

Files

19131.patch	18.6 KB	2015-02-18	Felix Schäfer
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