**Redmine - Defect #29442**  
**Vendor-defined characters in ISO-2022-JP email subject break issue's subject**  
2018-08-27 13:17 - Go MAEDA

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
<th>Start date:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
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<td>Due date:</td>
<td>0%</td>
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<tr>
<td>Assignee:</td>
<td>Go MAEDA</td>
<td>% Done:</td>
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<tr>
<td>Category:</td>
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<tr>
<td>Target version:</td>
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<td>Affected version:</td>
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<tr>
<td>Resolution:</td>
<td>Fixed</td>
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**Description**

When you create an issue via email, the subject field in the issue will be broken if the subject line in the email is encoded with ISO-2022-JP and contains vendor-defined characters such as "①".

Suppose a user is trying to create an issue via email with the subject "①丸数字テスト" and it is encoded with ISO-2022-JP. Actually, the subject field of the issue will be "$B-\{B $B4\]?t;z%F%9%H(B".  

![broken-subject@2x.png](image-url)

This is because the email's subject contains the character "①". The CIRCLED DIGIT ONE character, U+2460 in Unicode, is not defined in ISO-2022-JP. But it is defined in some vendor-extended variants like ISO-2022-JP-MS and widely used in the real world. Probably Ruby would not process "①" in ISO-2022-JP and raises Encoding::UndefinedConversionError.

The undefined character "①" should be replaced with the replacement character instead of breaking the whole subject. Please see ":undef" and ":replace" option of String#encode in [http://ruby-doc.org/core-2.5.1/String.html#method-i-encode](http://ruby-doc.org/core-2.5.1/String.html#method-i-encode).

The attached patch is a test to detect the problem.

```bash
$ ruby test/unit/mail_handler_test.rb
   ... (snip) ...
   F

Failure:
MailHandlerTest#test_add_issue_with_iso_2022_jp_ms_subject [test/unit/mail_handler_test.rb:753]:
Expected 丸数字テスト / to match "$B-\{B $B4\]?t;z%F%9%H(B".

bin/rails test/unit/mail_handler_test.rb:742
```

**Related issues:**

Blocked by Redmine - Feature # 29443: Update mail gem (~> 2.7.1)  
Closed
Ensure that vendor-defined characters in ISO-2022-JP email subject don't break issue's subject (#29442).

Patch by Go MAEDA.

History

#1 - 2018-08-27 13:22 - Go MAEDA
- Target version set to Candidate for next minor release

It will be fixed if we update mail gem to 2.7.0. See https://github.com/mikel/mail/pull/978 for details.

#2 - 2018-08-27 13:54 - Go MAEDA
- Blocked by Feature #29443: Update mail gem (~> 2.7.1) added

#3 - 2018-10-15 12:01 - Go MAEDA
- Status changed from New to Closed
- Assignee set to Go MAEDA
- Target version changed from Candidate for next minor release to 4.0.0
- Resolution set to Fixed

This issue has been fixed by #29443.

Files

<table>
<thead>
<tr>
<th>Name</th>
<th>Size</th>
<th>Date</th>
<th>Author</th>
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<tbody>
<tr>
<td><a href="mailto:broken-subject@2x.png">broken-subject@2x.png</a></td>
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