

Redmine - Feature #29208

IDN support for email addresses of user accounts

2018-07-07 09:01 - Go MAEDA

Status: New	Start date:
Priority: Normal	Due date:
Assignee:	% Done: 0%
Category: Accounts / authentication	Estimated time: 0.00 hour
Target version: Candidate for next major release	
Resolution:	
Description	
<p>This is a patch to add IDN (internationalized domain names) support to email addresses of user accounts.</p> <p>Currently, Redmine does not accept IDN email addresses like "joe@ドメイン.jp" and its ASCII expression "joe@xn--eckwd4c7cu47r2wf.jp" when creating/updating a user account. After applying this patch, both expressions will be accepted.</p> <p>According to IDN World Report, there are approx 8.7 millions IDNs in the world as of December 2016, and those are used in many countries. To support IDN email addresses should be beneficial for many people.</p> <p>This patch converts Unicode domain names to traditional ASCII domain names just before saving an email address. However, it does not convert ASCII domain names to Unicode domain names when displaying email address. Users will see ASCII expression "joe@xn--eckwd4c7cu47r2wf.jp" on my_account page even if they have entered Unicode email address "joe@ドメイン.jp".</p> <p>This approach can minimize the change to existing code and works fine with IDN-unaware MTAs and plugins while allowing people to use IDN email addresses.</p> <p>"Email" field accepts Unicode domain names: idn-support-screenshot-1.png</p> <p>ASCII converted email address is shown after saving: idn-support-screenshot-2.png</p> <p>References:</p> <ul style="list-style-type: none">- IDN World Report – Official World Report on Internationalised Domain Names- Punycode - the Punycode converter &#40;IDN converter&#41;	
Related issues:	
Related to Redmine - Defect # 28878: Email does not support Russian-language ...	New
Related to Redmine - Defect # 15985: Email address with non-ASCII character c...	New
Related to Redmine - Defect # 32793: Email address with Punycode top-level do...	Closed

History

#1 - 2018-07-07 09:06 - Go MAEDA

- Related to Defect #28878: Email does not support Russian-language domains. added

#2 - 2018-07-07 09:24 - Go MAEDA

- Related to Defect #15985: Email address with non-ASCII character causes delivery error added

#3 - 2018-07-07 09:28 - Go MAEDA

- File support-idn-email-addresses-v2.diff added

Fixed unnecessary Punycode conversion when an invalid email address is entered.

#4 - 2018-07-07 10:00 - Go MAEDA

- File *support-idn-email-addresses-v3.diff* added

Removed unnecessary "require 'simpleidn'".

#5 - 2018-07-08 07:40 - Go MAEDA

- File *support-idn-email-addresses-v4.diff* added

Updated the patch.

- Simplified the code by replacing `String#rpartition` with `String#partition`.
- Added tests to make sure that local-part is not encoded with Punycode.

#6 - 2018-07-09 15:15 - Go MAEDA

- Target version set to *4.1.0*

As we can see in #28878, there are already people who are in trouble because of lack of internationalized domain name support. I think that more and more people will start using email addresses with IDN. Let's deliver this feature in the next major release.

#7 - 2018-09-15 11:01 - Go MAEDA

- File *0001-Allow-Punycode-in-email-addresses.patch* added

- File *0002-Support-IDN-email-addresses.patch* added

I divided attachment:support-idn-email-addresses-v4.diff into two patches. The first one changes only the regular expression to allow Punycode in email addresses. The second one supports email addresses which include Unicode characters in the domain names.

I think that Redmine should support Punycode at least. If attachment:0001-Allow-Punycode-in-email-addresses.patch is merged, a user who has uses an email address "joe@ドメイン.jp" can make his account on Redmine by spelling his email address as "joe@xn--eckwd4c7cu47r2wf.jp".

#8 - 2018-09-16 03:15 - Go MAEDA

- File *deleted (0001-Allow-Punycode-in-email-addresses.patch)*

#9 - 2018-09-16 03:16 - Go MAEDA

- File *0001-Allow-Punycode-in-email-addresses.patch* added

Improved the regular expression for email addresses.

#10 - 2019-04-11 09:49 - Go MAEDA

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

It seems that no one is interested in this feature. Maybe this feature does not worth adding a gem for now.

#11 - 2020-01-13 06:30 - Go MAEDA

- Related to Defect #32793: Email address with Punycode top-level domain is not accepted added

Files

idn-support-screenshot-1.png	25.9 KB	2018-07-07	Go MAEDA
idn-support-screenshot-2.png	30.5 KB	2018-07-07	Go MAEDA
support-idn-email-addresses.diff	2.21 KB	2018-07-07	Go MAEDA
support-idn-email-addresses-v2.diff	2.23 KB	2018-07-07	Go MAEDA
support-idn-email-addresses-v3.diff	1.97 KB	2018-07-07	Go MAEDA
support-idn-email-addresses-v4.diff	2.13 KB	2018-07-08	Go MAEDA
0002-Support-IDN-email-addresses.patch	1.95 KB	2018-09-15	Go MAEDA
0001-Allow-Punycode-in-email-addresses.patch	1.11 KB	2018-09-16	Go MAEDA