

Redmine - Feature #29208

Support email addresses with IDN (internationalized domain names) in user accounts

2018-07-07 09:01 - Go MAEDA

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Go MAEDA	% Done:	0%
Category:	I18n	Estimated time:	0.00 hour
Target version:	6.0.0		
Resolution:	Fixed		

Description

This is a patch to add IDN (internationalized domain names) support to email addresses of user accounts.

Currently, Redmine does not accept IDN email addresses like "joe@ドメイン名例.jp" and its ASCII expression "[joe@xn--eckwd4c7cu47r2wf.jp](#)" when creating/updating a user account. After applying this patch, both expressions will be accepted.

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.

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@ドメイン名例.jp".

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.

"Email" field accepts Unicode domain names:

My account

Information

First name *

Redmine

Last name *

Admin

Email *

joe@ドメイン名例.jp

Language

English

Phone number

Money

Save

Email notification

For any event

☐ I don't want to receive email from myself

Preferences

Hide my email address

Display my email address

Warn me when my account is locked

ASCII converted email address is shown after saving:

✓ Account was successfully updated.

My account

Information

First name *

Redmine

Last name *

Admin

Email *

joe@xn--eckwd4c7cu47r2wf.j

Language

English

Phone number

Money

Save

Email notification

For any event c

☐ I don't wa

myself

Preferences

Hide my e

Displa

Warn me wh

References:

- [IDN World Report – Official World Report on Internationalised Domain Names](#)
- [Punycoder - the Punycode converter \(IDN converter\)](#)

Related issues:		
Related to Redmine - Defect #28878: Email does not support Russian-language d...		Closed
Related to Redmine - Defect #15985: Email address with non-ASCII character ca...		Closed
Related to Redmine - Defect #32793: Email address with Punycode top-level dom...		Closed

Associated revisions

Revision 22667 - 2024-02-01 09:46 - Go MAEDA
Add support for IDN (internationalized domain name) email addresses in user accounts (#29208).

Patch by Go MAEDA (@maeda).

Revision 23064 - 2024-09-20 03:58 - Go MAEDA
Replace custom email normalization logic with Rails' `normalizes` method (#29208).

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 [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 [0001-Allow-Punycode-in-email-addresses.patch](#) is merged, a user who has uses an email address "joe@`日本語.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

#12 - 2024-01-27 10:24 - Go MAEDA

Go MAEDA wrote in [#note-10](#):

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

We can add this feature without adding an extra gem because Addressable gem already used in Redmine supports Puny code conversion.

```
$ bin/rails c
Loading development environment (Rails 7.1.2)
irb(main):001> Addressable::IDNA.to_ascii('日本語.jp')
=> "xn--eckwd4c7cu47r2wf.jp"
```

#13 - 2024-01-28 05:36 - Go MAEDA

- File *29208.patch* added

- Subject changed from *IDN support for email addresses of user accounts* to *Support email addresses with internationalized domain names in user accounts*

I have updated the patch to support email addresses with an internationalized domain name (IDN). This new patch uses an already loaded Addressable gem instead of adding a new gem to decode internationalized domain names.

#14 - 2024-01-29 03:23 - Go MAEDA

- Subject changed from *Support email addresses with internationalized domain names in user accounts* to *Support email addresses with IDN (internationalized domain names) in user accounts*

- Category changed from *Accounts / authentication* to *I18n*

- Target version changed from Candidate for next major release to 6.0.0

Setting the target version to 6.0.0.

#15 - 2024-02-01 09:47 - Go MAEDA

- Status changed from New to Closed
- Assignee set to Go MAEDA
- Resolution set to Fixed

Committed the patch in [r22667](#).

#16 - 2024-08-12 12:42 - Go MAEDA

- File 29208-utilize-normalize.patch added
- Status changed from Closed to Reopened

The attached patch replaces the custom setter address= with the [normalizes](#), introduced in Rails 7.1.

#17 - 2024-09-20 03:58 - Go MAEDA

- Status changed from Reopened to Closed

Go MAEDA wrote in [#note-16](#):

The attached patch replaces the custom setter address= with the [normalizes](#), introduced in Rails 7.1.

Committed the change in [r23064](#).

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
29208.patch	1.37 KB	2024-01-28	Go MAEDA
29208-utilize-normalize.patch	1.2 KB	2024-08-12	Go MAEDA