Messaging & Notifications

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How many of you have...

• tried out the modules?

• actually used them for some site?
The needs

- E-mails?
- Subscribe to...
- SMS?
- Reply?

Users interacting with the system beyond the web
The goals

- Subscribe to...
- Get messages as...
- (Reply)
- .......

(We want it all, and it to be usable)
The plan

Great All-in-One Solution for Everything / Everyone

Awfully complex Huge module with more options than you can handle
Better plan

Notifications

Messaging
Still better

Notifications

Messaging

“Divide and conquer”
• Notifications
  - Manage subscriptions
  - Queue and send notifications
  - http://drupal.org/project/notifications

• Messaging
  - Multiple sending methods
  - Message templating (sending methods)
  - http://drupal.org/project/messaging
Notifications & Messaging

UI

Event types (node, user..)

Notifications

Subscription types

Tokens

Messaging

Message parts

Sending methods
Messaging

• So you want to send e-mails to users?

• Why not 'send messages to users'?

• How do they want them delivered?  
  (Mail, SMS, IM....Twitter...)


Messaging: Features

- Multiple channels (Mail, SMS, IM...)
- Multiple formats (Plain text, HTML)
- Push and pull methods
- Easy to build gateway modules
- Configurable message parts
- Token support
- Bulk messaging
Messaging: Plug-ins

- Simple Mail
- PHPMailer
- Privatemsg
- SMS Framework
A messaging plug-in

hook_messaging('send methods')

send_callback($destination, $message)
Default messaging:

- Mail
- HTML Mail
- PrivateMsg
- Simple
- SMS

Default sending method for getting messages from this system.

Settings for messaging methods

Depending on your content format and the tokens you are using for messages it is important that you use the right filtering for the message body. Set up the filters you need using the Input Formats page.

Mail settings

Message body filter:
- Messaging plain text

Simple settings

Message body filter:
- Messaging plain text
About messaging & filtering

- Not possible one-filter-for-all
- Filtered and unfiltered tokens
- Basic ones: plain text and HTML
- Depending on your Input Filters
- Security considerations

But **default filters** created now on install!!
Notifications: Features

- Open framework
- Pluggable event types
- Pluggable subscription types
- Pluggable UI
- High escalability
- Messaging
- Subscriptions with n conditions
Supported features

The engine
The plug-ins
The UI
A Notifications plug-in

hook_notifications()
- Event types
- Subscription types
- Object names, etc...

hook_messaging()
- Templates
- Available tokens
Notifications: Plug-ins

- Content (node, node type, user)
- Taxonomy (multiple tags)
- Organic Groups
- FeedAPI
- Default UI
Plug-in triggers **Event**

**Subscriptions** are checked and **Notifications** queued

**Queue** processing (digesting, de-duping)

**Message** composition

**Message delivery**

Cron

Process

Page Request
So, do you want options?
Really?
<table>
<thead>
<tr>
<th>Enabled</th>
<th>Name</th>
<th>Version</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Debug tool</td>
<td></td>
<td>Debugging utilities for messaging. Requires: Messaging (enabled)</td>
</tr>
<tr>
<td></td>
<td>Messaging</td>
<td></td>
<td>Messaging system. This is the base module for the Messaging Framework</td>
</tr>
<tr>
<td></td>
<td>Messaging Mime Mail</td>
<td>5.x-1.0- pre-alpha</td>
<td>Mail Sending Method: Integration with Mime Mail module Depends on: Messaging (enabled), Mimemail (missing)</td>
</tr>
<tr>
<td></td>
<td>Messaging PHPMailer</td>
<td></td>
<td>Mail Sending Method: Integration with Drupal mail API for HTML Mail Depends on: Messaging (enabled)</td>
</tr>
<tr>
<td></td>
<td>Privatemsg</td>
<td></td>
<td>Sending Method: Integration with Privatemsg Depends on: Messaging (enabled), Private messages (disabled)</td>
</tr>
<tr>
<td>✔</td>
<td>Simple Mail</td>
<td></td>
<td>Mail Sending Method: Integration with Drupal mail API Depends on: Messaging (enabled)</td>
</tr>
<tr>
<td>✔</td>
<td>Simple messaging</td>
<td></td>
<td>Sending Method: Show messages on user's page Depends on: Messaging (enabled)</td>
</tr>
<tr>
<td></td>
<td>SMS Messaging</td>
<td></td>
<td>Sending Method: SMS Depends on: Messaging (enabled), SMS Framework (disabled), SMS User (disabled)</td>
</tr>
<tr>
<td>Enabled</td>
<td>Name</td>
<td>Version</td>
<td>Description</td>
</tr>
<tr>
<td>---------</td>
<td>-----------------------------</td>
<td>---------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>✔️</td>
<td>Content Notifications</td>
<td></td>
<td>Allows users to subscribe to content related events.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Depends on: Notifications (enabled)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Required by: Notifications Autosubscribe (enabled), Taxonomy Notifications (enabled), Organic Groups Notifications (disabled)</td>
</tr>
<tr>
<td></td>
<td>FeedAPI Subscriptions</td>
<td></td>
<td>Allows users to subscribe to feeds and be notified when they are updated</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Depends on: Notifications (enabled), Feedapi (missing)</td>
</tr>
<tr>
<td>✔️</td>
<td>Mail to Web</td>
<td></td>
<td>Gateway module for responding to posts via mail</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Depends on: Notifications (enabled), Mailhandler (enabled)</td>
</tr>
<tr>
<td></td>
<td>Notifications</td>
<td></td>
<td>The basic notifications framework</td>
</tr>
<tr>
<td>✔️</td>
<td></td>
<td></td>
<td>Depends on: Token (enabled), Messaging (enabled)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Required by: Mail to Web (enabled), Notifications Autosubscribe (enabled), Content Notifications (enabled), FeedAPI Subscriptions (disabled), Taxonomy Notifications (enabled), Notifications UI (enabled), Organic Groups Notifications (disabled)</td>
</tr>
<tr>
<td>✔️</td>
<td>Notifications Autosubscribe</td>
<td></td>
<td>Provides automatic notifications.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Depends on: Notifications (enabled), Content Notifications (enabled)</td>
</tr>
<tr>
<td></td>
<td>Notifications Lite</td>
<td></td>
<td>Extra Simple Notifications API. Enable only when required by other modules.</td>
</tr>
<tr>
<td>✔️</td>
<td>Notifications UI</td>
<td></td>
<td>Provides an UI to notifications</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Depends on: Notifications (enabled)</td>
</tr>
<tr>
<td>✔️</td>
<td>Taxonomy Notifications</td>
<td></td>
<td>Allows users to subscribe to taxonomy terms.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Depends on: Notifications (enabled), Content Notifications (enabled), Taxonomy (enabled)</td>
</tr>
</tbody>
</table>
Messaging & Notifications
Administer and configure messaging and notifications

Mail to web
Configure automatic mail responses.

Message templates
Configuration of message templates

Messaging settings
Configuration of sending methods

Notifications Settings
Site settings for user notifications.

Notifications Status
Manage users notifications.
Notifications for node creation
The body header and footer will be taken from Notification events

Default:
[node-teaser]
Read more [node-url]

Subject

Body content

Available tokens

Mail:

HTML Mail:
You have 2 new private messages.

You are currently subscribed to the following threads:

<table>
<thead>
<tr>
<th>Title</th>
<th>Send interval</th>
<th>Send method</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Story] First story</td>
<td>As soon as possible</td>
<td>SMS</td>
</tr>
<tr>
<td>[Story] Second story</td>
<td>Daily</td>
<td>Mail</td>
</tr>
<tr>
<td>[Story] Testing Filters</td>
<td>Daily</td>
<td>Mail</td>
</tr>
</tbody>
</table>
Notifications Settings

General settings

- **Notify poster of own posts**
  Notifies a node poster about their own posts. Useful principally during testing. Default is OFF.

- **Immediate sending**
  Do not queue notifications for immediate sending. This will produce more timely notifications for sites with a small number of users.

**Notifications Sender:**
- **No one** (All notifications will appear as coming from the web site)
- **User name, site data** (Only the user name will be used)
- **Full user data** (User name and available user information)

Use the site information as the sender for notification messages or use account data from the user causing the event. WARNING: Selecting the last option (Full user data) may undisclose private information to subscribers like the user e-mail address.

Default settings

**Default send interval:**
- **Immediately**

Limits for queue processing

These are the limits for each cron run on queue processing. The process will stop when it first meets any of them. Set to 0 for no limit.

**Number of rows:**
- **0**

**Number of messages sent:**
Notifications Settings

Content type subscriptions

**Allowed content types:**
- ☑ Group
- ☑ Page
- ☑ Story

Select content types which should be *allowed* for subscriptions to content type.

Tag subscriptions

**Allowed vocabularies:**
- ☑ tubrosl
- ☑ jobresupuk

Select vocabularies to which subscriptions should be *allowed*.
## Notifications Settings

### General

### Content Subscriptions

### Intervals

### User Interface

<table>
<thead>
<tr>
<th>Time</th>
<th>Display name</th>
</tr>
</thead>
<tbody>
<tr>
<td>-1</td>
<td>Never</td>
</tr>
<tr>
<td>0</td>
<td>Immediately</td>
</tr>
<tr>
<td>1</td>
<td>Every hour</td>
</tr>
<tr>
<td>12</td>
<td>Twice a day</td>
</tr>
<tr>
<td>7</td>
<td>Weekly</td>
</tr>
</tbody>
</table>

Send intervals

To delete an interval, set the time unit and the name empty.
Name: Story

The human-readable name of this content type. This text will be displayed as part of the list on the create content page. It is recommended that this name begin with a capital letter and contain only letters, numbers, and spaces. This name must be unique.

Subscriptions UI:
- Display in node form
- Display in comment form
- Display as node links
- Display in block

Enable different display options for subscriptions to this content type
Notifications Settings

These are UI settings only. They will be combined with other settings and permissions to determine which subscription options will be finally available for each page.

To enable different subscription options for each content type visit the content types settings page

Enabled subscription types:

- [ ] Groups
- [ ] Content type in group
- [x] Thread
- [x] Content type
- [x] Author
- [ ] Tags

Check the subscription types the UI module should show.

- [x] Show subscribe link with teaser

Uncheck to show links only in full node view. This will work only for content types that have subscription links enabled.
You have 2 new private messages.

<table>
<thead>
<tr>
<th>Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed</td>
<td>6</td>
</tr>
<tr>
<td>Groups</td>
<td>1</td>
</tr>
<tr>
<td>Content type in group</td>
<td>0</td>
</tr>
<tr>
<td>Tags</td>
<td>2</td>
</tr>
<tr>
<td>Thread</td>
<td>3</td>
</tr>
<tr>
<td>Content type</td>
<td>1</td>
</tr>
<tr>
<td>Author</td>
<td>1</td>
</tr>
<tr>
<td>Type</td>
<td>Send interval</td>
</tr>
<tr>
<td>-------</td>
<td>---------------</td>
</tr>
<tr>
<td>Page</td>
<td>Immediately</td>
</tr>
<tr>
<td>Story</td>
<td>Immediately</td>
</tr>
</tbody>
</table>

Save
<table>
<thead>
<tr>
<th>Author</th>
<th>Send interval</th>
<th>Send method</th>
</tr>
</thead>
<tbody>
<tr>
<td>admin</td>
<td>Immediately</td>
<td>Mail</td>
</tr>
<tr>
<td>jose</td>
<td>Immediately</td>
<td>Mail</td>
</tr>
</tbody>
</table>
You are currently subscribed to the following threads:

<table>
<thead>
<tr>
<th>Title</th>
<th>Send interval</th>
<th>Send method</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Story] Hola caracola</td>
<td>Immediately</td>
<td>Mail</td>
</tr>
<tr>
<td>[Story] Please subscribe!</td>
<td>Immediately</td>
<td>Simple</td>
</tr>
</tbody>
</table>
Organic Groups
now using
Messaging & Notifications
Mail2web

"Reply ABOVE this LINE to POST a COMMENT"
Interesting story

Fri, 08/29/2008 - 18:20 — admin

No news today.

Send this Story to: *

Jose, myfriend@example.com, 0123456789

Enter list of recipients separated by commas: User names, Email addresses, Mobile phone numbers

Personal message:

Greetings,

admin thinks this content may be interesting for you:

Custom text to add at the beginning of the message

Send
Notifications Lite

• Extra simple sending API for
  1. Notifications
  2. Messaging
  3. Drupal mail

notifications_lite_send(
    $uid,
    $subject,
    $body = ''
)
Status

• It works!
• Quickly approaching 1.0 release
• Great flexibility (too much?)
• Many plug-ins (too many?)
How does it work for...

- Developers
  :-))

- Site builders
  :-) 

- Site admins
  :-o

- Site end users
  :-?
The future

- More plug-ins (smaller engine)
- Improve message digesting
- Drupal 6
  - Triggers and Actions
  - Multilingual templates
- Other modules implementing “hooks” instead of many plug-ins
The future?
Recipes That Raise Money For Kids.
What could be sweeter than that?
Great gift idea. Order today...

Breaking Through the Baby Blues

Chances are, when you hear "baby blues," you think of the kind that hit after the baby is born, thanks to all of the attention postpartum depression gets in the media and from celebrities such as Brooke Shields and Marie Osmond. But it turns out that depression during pregnancy — prenatal depression — is even more common than postpartum depression. About 20 percent of women will suffer some depression symptoms during pregnancy.
You have one new private message.

Edit my account

Invite friends  Find users

View My profile  Edit My profile  My Email accounts  My Notification settings
I would like to receive notifications of new group content, replies to my posts, and other community content by email:

- Daily

I would like to be notified when someone invites me to a new group:

- Yes

I would like to be notified when someone wants to join my group:

- Yes

I would like to be notified when someone wants to be friends with me:

- Yes

I would like to be notified when a user shares a post with me:

- Yes

Configure advanced notifications »

Save
My notifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Groups</td>
<td>0</td>
</tr>
<tr>
<td>Content type in group</td>
<td>0</td>
</tr>
<tr>
<td>Request</td>
<td>4</td>
</tr>
<tr>
<td>Thread</td>
<td>0</td>
</tr>
<tr>
<td>Content type</td>
<td>0</td>
</tr>
<tr>
<td>Author</td>
<td>0</td>
</tr>
</tbody>
</table>
You have one new private message.

Home › User account › My notifications

My notifications

Invite friends  Find users

My Homepage  My Profile  My Groups  My Activities  My Photos  My Content  My Friends

View My profile  Edit My profile  My Email accounts  My Notification settings

Request types  Send interval  Send method

<table>
<thead>
<tr>
<th>Request types</th>
<th>Send interval</th>
<th>Send method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group Invitation</td>
<td>Immediately</td>
<td>HTML Mail</td>
</tr>
<tr>
<td>Pending Group Membership</td>
<td>Immediately</td>
<td>HTML Mail</td>
</tr>
<tr>
<td>Pending Friend</td>
<td>Immediately</td>
<td>HTML Mail</td>
</tr>
<tr>
<td>Shared Post</td>
<td>Immediately</td>
<td>HTML Mail</td>
</tr>
</tbody>
</table>

Save