



# Installation and configuration manual

Version 1.0.9

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# CONTENT

## GETTING STARTED

## CONFIGURATION

- MODULE PARAMETERS

- AUTHENTICATION

- BASIC SETTINGS

- FORUM SETTINGS

- MEMBER GROUPS

- MODERATORS

## USER SETTINGS

## MODERATION

- POST APPROVAL

- HANDLE REPORTS

- HANDLE TOPICS

- POSTING TOPICS

- HANDLE POSTS

- HANDLE BLOCKED IP ADDRESSES

## THEMING

- BBII THEMING

- CKEDITOR THEMING

- JQUERY UI THEMING

## TOPIC SUBSCRIPTION

- MEMBER TOPIC SUBSCRIPTION AND UNSUBSCRIPTION

## GETTING STARTED

BBii is an extension to the Yii Framework (<http://www.yiiframework.com/license/>) in the form of a module. BBii adds and integrates a fully functional webforum (a.k.a. bulletin board) to an existing Yii application.

## REQUIREMENTS

- Yii 1.1.8 or above.
- PHP 5.3 or above.
- The application to which BBii is added needs to have a user table.

## INSTALLATION

- Extract the zip file to the application's protected/modules directory.
- Create database tables according to bbii/data/schema.mysql.sql.
- Import sample data from bbii/data/sampleddata.mysql.sql.
- Create the subdirectory 'avatar' in your application webroot directory to which the application must be given read/write access rights.
- Edit your configuration to register the module (the default option values may need to be adjusted):

```
'modules'=>array(  
    'forum'=>array(  
        'class'=>'application.modules.bbii.BbiiModule',  
        'adminId'=>1,  
        'userClass'=>'User',  
        'userIdColumn'=>'id',  
        'userNameColumn'=>'username',  
    ),  
)
```

- BBii requires a user database table to be present that at least contains an integer User ID field and a varchar User name field. BBii also expects `Yii::app()->user->id` to return the User ID, not the User name. The model for the user table and the column names for the User ID column and the User name column are part of the module options.
- Log in to your application with the user that has the User ID equal to the value for the option 'adminId' to acquire administration rights in BBii.
- Navigate to `http://<your base url>/forum`. Click the link 'Forum settings' and set up the forum.

NOTE: BBii uses the layout '`//layouts/column1`' that comes with the default Yii application. When you need to use a different layout this needs to be changed in the script `components/BbiiController.php`.

## OPTIONS

The following configuration options can be used:

Option	Description
<b>adminId</b>	the User ID (integer) for the user to receive the admin authorization (default value: false). When the application uses rbac and the role 'admin' exists the users that get the role 'admin' assigned will also be admin for BBii.
<b>avatarStorage</b>	The directory in which uploaded avatar images are stored relative to the application webroot directory (leading '/' required) (default value: '/avatar').
<b>forumTitle</b>	The name for the forum (default value: 'BBii Forum').
<b>userClass</b>	The model name of the database table that contains the user authentication information for User ID and User name (default value: 'User').
<b>userIdColumn</b>	The column name of the User class field that contains the User ID (default value: 'id').
<b>userNameColumn</b>	The column name of the User class field that contains the User name (default value: 'username').
<b>userMailColumn</b>	The column name of the User class field that contains the User e-mail address (default value: false).
<b>dbName</b>	The name of the db component to use to connect to the forum database tables (default value: false)
<b>allowTopicSub</b>	Allow topic subscription by members of forum (default value: false)
<b>topicsPerPage</b>	The number of topics to display on a single page (default value: 20).
<b>postsPerPage</b>	The number of posts to display on a single page (default value: 20).
<b>purifierOptions</b>	The CHtmlPurifier options.
<b>editorToolbar</b>	The toolbar options for the CKEditor.
<b>editorSkin</b>	The CKEditor configuration value for skin (default value: 'moono').
<b>editorUIColor</b>	The CKEditor configuration value for uiColor (default value: "").
<b>editorContentsCss</b>	The CKEditor configuration value for contentsCss (default value: array()).
<b>juiTheme</b>	The theme for the jQuery UI widgets (default: 'base').
<b>bbiiTheme</b>	The theme for the BBii module itself (default: 'base').

## EMBEDDED EXTENSIONS

- editMe (<http://www.yiiframework.com/extension/editme>) is no longer supported. BBii is accompanied by its own version of editMe for CKEditor 4.4.0.

# CONFIGURATION

## MODULE PARAMETERS

In the file protected/config/main.php add the module with its settings in 'modules' array, e.g.:

```
'modules'=>array(  
    'forum'=>array(  
        'class'=>'application.modules.bbii.BbiiModule',  
        'userMailColumn' => 'email',  
    ),  
    // other modules  
) ,
```

### *CLASS - MANDATORY*

Tells the configuration to use the bbii module for the forum. The mandatory value for this parameter is 'application.module.bbii.BbiiModule'. The BBii module does not require that the module id 'forum' is used, but since the module id will show up in the URL a SEO friendly value is recommended.

### *ADMINID*

The User ID (integer) for the user to receive admin authorization (see [Authorization](#)). When the application uses rbac and the role 'admin' exists the users that get the role 'admin' assigned will also be admin for BBii.

Not setting this value or setting this value to false will not assign admin authorization to an User ID.

### *AVATARSTORAGE*

The directory in which uploaded avatar images are stored relative to the application webroot directory (leading '/' required).

Not setting this value will cause images to be stored in '/avatar'.

The application must be given read/write access rights to this directory.

### *FORUMTITLE*

The name for the forum.

Not setting this value will display the default value 'BBii Forum'.

### *USERCLASS*

The model name of the database table that contains the user authentication information for User ID and User name.

Not setting this value will cause the application to access the model by the name 'User'. The database table and the model used for access must be present in the existing application to which BBii is added.

### *USERIDCOLUMN*

The column name of the User class field that contains the User ID.

Not setting this value will cause the default value 'id' to be used by BBii.

#### *USERNAMECOLUMN*

The column name of the User class field that contains the User name.

Not setting this value will cause the default value 'username' to be used by BBii.

#### *USERMAILCOLUMN*

The column name of the User class field that contains the User e-mail address.

Not setting this value or setting this value to false will cause the e-mail functionality of BBii to be disabled.

#### *DBNAME*

The name of the db component to use to connect to the forum database tables (default value: false).

Not setting this value will cause the default db to be used. When multiple db components are used by the application it is advised to tell the BBii module which db component to use.

#### *ALLOWTOPICSUB*

Allows for the topic subscription by the members of the forum (a.k.a. watch threads) when set to true and when also the parameter userMailColumn is set.

You need to schedule a daily job that sends e-mail digests to members of the forum that are subscribed to topics to support this functionality.

#### *TOPICSPERPAGE*

The maximum number of topics of a forum to display on a single page.

Not setting this value will cause the default of 20 topics to be displayed per page.

#### *POSTSPERPAGE*

The maximum number of posts of a topic to display on a single page.

Not setting this value will cause the default of 20 posts to be displayed per page.

#### *PURIFIEROPTIONS*

The content of posts is filtered with the help of the CHtmlPurifier class that removes all malicious code from the post content before saving it. The default setting for this parameter is the array:

```
array(  
    'HTML.SafeIframe' => true,  
    'URI.SafeIframeRegexp' => '%^http://(www.youtube.com/embed/|player.vimeo.com/video/)%',  
)
```

By default the purifier will let pass almost all non-malicious html code. Iframes are considered a potential security risk, because code from anywhere can be included in it. To allow iframes to

pass the purifier two options need to be set. The first option 'HTML.SafeIframe' tells the purifier to allow iframes. The second option tells the purifier to allow source code from certain domains to be allowed in the iframe.

CHtmlPurifier is a wrapper of [HTML Purifier](#). Further information about the options can be found in the [HTML Purifier Configuration Settings](#).

The content of private messages also passes the CHtmlPurifier, but this purifier is the default purifier for which no options are set.

#### *EDITORTOOLBAR*

The toolbar for the editor used to create posts can be configured. The default setting for this parameter is the array:

```
array(  
    array('Cut','Copy','Paste','PasteText','PasteFromWord','-','Undo','Redo'),  
    array('Find','Replace','-','SelectAll'),  
    array('Bold','Italic','Underline','Strike','Subscript','Superscript','-','RemoveFormat'),  
    '-',  
    array('NumberedList','BulletedList','-','Outdent','Indent','-','Blockquote','CreateDiv',  
        '-','JustifyLeft','JustifyCenter','JustifyRight','JustifyBlock'),  
    '/',  
    array('Styles','Format','Font','FontSize'),  
    array('TextColor','BGColor'),  
    array('HorizontalRule','Smiley','SpecialChar','-','ShowBlocks'),  
    array('Link','Unlink','Image','Iframe')  
)
```

The editor distributed with BBii version 1.05 is [CKEditor 4.4](#) and the explanation on how to edit the toolbar can be found in the [CKEditor 4 Developer's Guide](#).

#### *EDITORSKIN*

CKEditor 4 supports skins. BBii's version of CKEditor is released with the skins [moono](#), [kama](#) and [moonocolor](#). The CKEditor skins are located in the directory '/protected/modules/bbii/extensions/editMe/vendors/CKEditor/skins/'.

Not setting this value will cause the default value 'moono' to be used by BBii.

#### *EDITORUICOLOR*

CKEditor 4 skins may support this setting for a base user interface color to be used by the editor. This setting expects a HEX color code (e.g. '#ffff00').

#### *EDITORCONTENTSCSS*

CKEditor 4 uses the skin independ contents.css to set the style of the editor text pane (for default font style, color, background, etc.). The config.contentCss setting allows you to pick a different css file. editMe will still include the original content.css file first. Your css file will only need to contain the styles you want to override.

#### *JUITHEME*

The theme for the jQuery UI widgets (default: 'base').



Not setting this value will cause the default value 'base' to be used by the widgets used in BBii.

*BBiiTHEME*

The theme used by the module.

Not setting this value will cause the default value 'base' to be used by BBii.

## AUTHENTICATION

BBii comes **without** its own authentication. It is assumed that, since BBii will be integrated with an existing application, an authentication mechanism will already be present. BBii does make a couple assumptions about the authentication, however:

- authentication uses a database User table that contain at least two fields:
  - an integer field for the User ID
  - a string field (varchar) for the User name
- `Yii::app()->user->id` will return the User ID, not the User name.

BBii ties in to the existing authentication by defining the user table name (option: **userClass**) and the field names (options: **userIdColumn** and **userNameColumn**) in the module options.

When an authenticated user visits the forum for the first time the User ID and the User name are copied to the BBii Member database table.

When the user table contains an e-mail address BBii can use the user e-mail address for its functionality. BBii assumes that when the user table contains an e-mail address that field is mandatory, unique and preferably validated.

## AUTHORIZATION

BBii recognizes 4 levels of authorization:

Authorization	Description
<b>Guest</b>	No authentication. A visitor that can read the public forums.
<b>Member</b>	An authenticated user. A member that can read all forums, can post in forums, can edit own posts, and can configure personal settings.
<b>Moderator</b>	A member that can edit all posts, move and close topics, approved posts, etc.
<b>Administrator</b>	A member that has moderator rights and can configure the forums.

An administrator can be assigned in two ways. The first way is by setting the module option **adminId** equal to the User ID of this user. The second method involves the use of Yii's CAuthManager. When CAuthManager has been configured the role **admin** has to be defined and that role has to be assigned to the User ID(s) of the administrator(s).

An administrator has all moderator rights. Moderators themselves can be created when CAuthManager has been configured, and the role **moderator** is created, by assigning the **moderator** role to the User ID(s) of the moderator(s). Moderators can also be assigned on the moderator page of the forum settings (see [Moderators](#)).

## BASIC SETTINGS

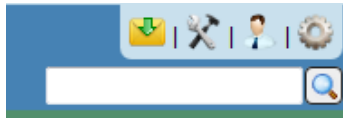
The forum name displayed is set by the module option **forumTitle**.

The forum language is set by the application parameter **language**. This means that you cannot set the language of the forum separate from the application to which the module is added. The forum language will be the language set in the config/main.php "language" parameter, for example (dutch):

```
return array (  
    'language'=>'nl',  
    // ...
```

The forum time zone is set by the PHP.INI parameter **date.timezone**, which is part of the PHP installation. You can override the setting of "date.timezone" parameter either in the source code or by adding this override in a ".user.ini" file, which is supported since PHP 5.3.0.

The forum contact e-mail address can be set in the forum settings. The forum settings can be accessed by logging in as administrator and clicking the **Forum settings** icon ⚙ in the top right corner.



## FORUM SETTINGS

The tab **Forum layout** in the **Forum settings** allows for the creation of forum categories and forums. First a forum category needs to be created, since new forums can only be created within forum categories.

When adding a category or forum the name and subtitle of the forum are entered. The forum has more settings that can be set by editing the forum after its creation.

The screenshot shows the 'Forum settings' interface with the 'Forum layout' tab selected. The breadcrumb trail is 'Forum » Settings » Forum layout'. The main section is titled 'Add category or forum' and includes a note 'Fields with \* are required.' Below this are input fields for 'Name \*' and 'Subtitle', a 'Type' dropdown menu set to 'Category', and another 'Category' dropdown menu. An 'Add' button is at the bottom of this section. The 'Forum layout' section below contains a list of forum types, each with an 'Edit' button: 'General' (green bar), 'Normal forum' (blue bar), 'Private forum' (blue bar with note 'Private forums are only seen by authenticated users'), 'Moderated forum' (blue bar with note 'Posting in a moderated forum requires post approval by a moderator'), 'Trashcan' (green bar), and 'Locked forum' (blue bar with note 'Only administrators and moderators can post in locked forums').

The order of forum categories and the order of forums within a category can be changed by drag-and-drop. Forums can be moved to another forum category by using the **Edit** button. The Edit button opens the editing form in a pop-up window.

Edit forum

Fields with \* are required.

Name \*

Subtitle

Category

General

Public

Yes

Locked

No

Moderated

No

For member group

Poll

User polls

Delete

Save

Cancel

Edit forum is a pop-up box in which you can change the name of the forum, the subtitle and the forum category. It is also the place where you can define special forum settings. These settings are:

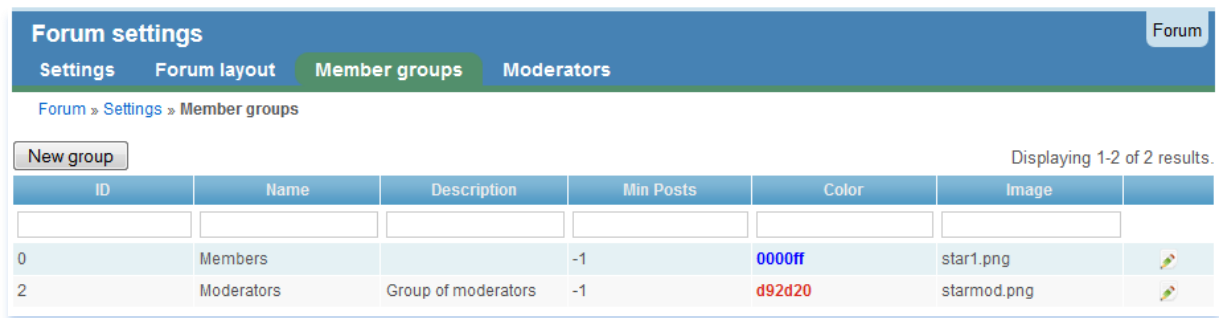
Forum setting	Description
<b>Public</b>	Guests can only see forums displayed when they are public.
<b>Locked</b>	Members cannot post in locked forums.
<b>Moderated</b>	Moderation requires post approval by a moderator.
<b>For member group</b>	When a forum is assigned to a member group only members of that group can access that forum.
<b>Poll</b>	Polls can be started by a moderator, or by any user, or not at all.

Edit category allows for the change of the category name and subtitle.

Deletion of forum categories and forums is protected against deletion when they have content.

## MEMBER GROUPS

Member groups can be used as reward system for posting activity or be used to mark special members. The member group to which a member belongs can be set by a moderator, but it can also be set automatically when a member has posted a minimum number of posts. For this reason member groups that need to be set manually are given a negative number for **Min Posts**. The negative number for Min Posts is used as a signal not to change the member group for a user, which otherwise might happen when also automatic member group assignment is defined for other member groups.



Forum settings					
Settings   Forum layout <b>Member groups</b> Moderators					
Forum » Settings » Member groups					
New group					
Displaying 1-2 of 2 results.					
ID	Name	Description	Min Posts	Color	Image
0	Members		-1	0000ff	star1.png
2	Moderators	Group of moderators	-1	d92d20	starmod.png

The member group with the ID=0 cannot be deleted. This member group is automatically assigned to all new members. Min Posts needs to be set to “0” when members of this member group needs to change their assigned member group upon reaching a certain number of posts.

Images for the member groups should be small; preferably not wider than 90 pixels and not higher than 30 pixels. Images for member groups should be placed in the protected/modules/bbii/assets/images directory. The available images staradmin.png, starmod.png and star1.png through star5.png can be used for the member groups.

## MODERATORS

Members of the forum can be assigned moderator authorization by setting the moderator checkbox. Members that have moderation authorization by assigning the rbac role **moderator** to them are highlighted on the list of the Moderators page, but their checkboxes are not necessarily set and they cannot be found by filtering the moderators of the list.

Name to display	Group	Moderator
Admin	Member	<input checked="" type="checkbox"/>
Demo	Member	<input type="checkbox"/>



## USER SETTINGS

### *NAME TO DISPLAY*

The name to display on the forum can be changed. The default name will be the user login name. The name must be unique compared to login names and the display names of other members of the forum. Once the default name is changed it can no longer be changed back to the login name of the user.

### *GROUP*

The member group of the user is displayed. Only a moderator can change the member group of a user.

### *GENDER*

The gender of the user.

### *BIRTHDATE*

The birthdate of the user can be set and changed but not deleted.

### *LOCATION*

The user location can be entered as a free text.

### *PROFILE TEXT*

The profile text can be used to enter a short profile of the user that will be displayed only in the user profile.

### *SHOW WHEN ONLINE*

This is a privacy setting that will allow other users to see when the user is online or has been online since the last 15 minutes.

### *ALLOW MEMBERS TO CONTACT YOU BY E-MAIL*

This is a privacy setting that allows other users to use the BBii mail form to send you an e-mail. The e-mail address of users will not be shown on the forum, but when you send an e-mail with the BBii mail form your e-mail address will be used for the sender value of the e-mail. (See [userMailColumn](#)).

### *ALLOW MEMBERS TO CONTACT YOU BY PRIVATE MESSAGING*

This is a privacy setting that will allow other members to send private messages in BBii to the user, while the user can still send private messages when this setting is 'No'.

### *TIME ZONE*

The time zone selection will show the post time of all postings and private messages relative to the chosen time zone.

### *AVATAR*

Upload or remove avatar image to be displayed on the member profile and to accompany member posts.

#### *SIGNATURE*

User signature to displayed below every post on the forum.

#### *MY PRESENCE ON THE INTERNET*

A selection of different user “owned” locations on the Internet. A link that must be clicked to toggle the input fields.

# MODERATION

## POST APPROVAL

When the setting for a forum is moderated (see [Forum settings](#)) all posts in that forum are placed in a queue for approval by a moderator (see [Authorization](#)). The users that post in a moderated forum are informed that their posts are waiting in a queue to be approved before they are shown on the forum.

The moderators can see the 'Approval' tab on the forum front page that shows the number of posts waiting for approval.



User	Subject	IP address	Posted
Demo	hi		May 10, 2014 2:59 PM

The approval page shows a list of posts waiting for approval. Clicking the magnifying glass will show the content of that post below the list. Clicking the green approval icon ✓ will immediately approve the post. Clicking the deletion icon ✗ will delete the post after confirming the post deletion. The poster will not be informed about either decision by the moderator.

## HANDLE REPORTS

Members are able to report posts when they feel they need to be reported. Reports are delivered in the moderator mailbox, which is not owned by any forum member and can only be accessed by moderators.

The moderator can see the 'Reports' tab on the forum front page that shows the number of reports in the mailbox. The reports mailbox shows a list of reports with the content of the report. The first green arrow ➡ jumps to the post on the forum. The second green reply ↩ arrow is for answering the reporter of the post. The deletion icon ✗ allows for the deletion of the report.

## HANDLE TOPICS

Visible for forum moderators next to each topic of a forum is the topic editor pencil icon ✎ that brings up the topic editor. In the topic editor the moderator can change the title of the topic; something the poster of a topic cannot do. The moderator can also lock the topic, make the topic sticky or global, or reverse any of these topic settings. The moderator can also move the topic to another forum by selecting another forum. Also the topic can be merged with another topic, either in the same forum or a topic in another forum, by selecting a topic.

Update topic

Forum \*

Normal Forum

Merge with topic

Title \*

Test

Locked

No

Sticky

No

Global

No

Change

Cancel

When the forum selection is changed the topics in that forum are retrieved for selection and the selected topic for merging becomes unselected.

## POSTING TOPICS

When a moderator posts a new topic he can indicate whether the topic needs to be locked, sticky and/or global when creating the post.

## HANDLE POSTS

Visible for the forum moderator below every post in the forum topic are three icons for issuing warnings to posters ⚠, banning IP addresses used by posters 🚫 and deleting posts ✖.

## HANDLE BLOCKED IP ADDRESSES

The 'Blocked IP' tab is visible for the forum moderators on the front page of the forum. The Blocked IP page shows a list of blocked IP addresses, their resolved host name, the number of posts that were blocked and when the last post was blocked for that IP address. The IP address can be removed from the list by clicking the delete icon ✖.

IP address	Host name	Count	Last blocked	
		0		✖
		0		✖

## THEMING

BBii can be themed, however, since BBii includes the extension editMe and makes use of jQuery UI, theming can be done on the level of the forum, the editor and jQuery UI.

### BBII THEMING

The theme used by the BBii is defined by the module option [bbiiTheme](#). The default theme 'base' is located in the file directory `/bbii/assets/css/base/` and contains the cascading style sheet 'forum.css' and images used by this stylesheet in the subdirectory `/bbii/assets/css/base/images/`.

Creating a new theme by the name 'myTheme' would start by creating the directory `/bbii/assets/css/myTheme/`, copying the files under directory `/bbii/assets/css/base/` to this new directory and changing the file 'forum.css' and replacing the images in `/bbii/assets/css/myTheme/images/`.

### CKEDITOR THEMING

The theme used by the editor of BBii is defined by the module option [editorSkin](#). The default theme 'moon0' is located in the file directory `/bbii/extensions/editMe/vendors/CKEditor/skins/moon0/`. New skins (themes) can be added to the directory `/bbii/extensions/editMe/vendors/CKEditor/skins/`.

The CKEditor skin determines the look and feel of the editor (mainly buttons and borders) but not the text editor field in which the user fills in the text. This is determined by the cascading style sheet file 'contents.css' located at `/bbii/extensions/editMe/vendors/ckeditor/`. Instead of editing this file one can also create a cascading style sheet file that overrides some of the settings and use the module option [editorContentsCss](#) to tell BBii where to find this style sheet.

### JQUERY UI THEMING

The theme used by the jQuery UI functionality is defined by the module option [juiTheme](#). The default theme 'base' is not located within the BBii module but in the Yii framework at `/framework/web/js/source/jui/css/base/`. New themes can be added to `/framework/web/js/source/jui/css/`.

## TOPIC SUBSCRIPTION

The topic subscription functionality allows members to watch forum post activity on the level of topics. When new contributions to a thread are posted the members subscribed to that topic will receive an e-mail notification with the content of the new posts.

To support this functionality you will need to be able to schedule jobs with the help of a job scheduler, for instance crontab on linux or unix operating systems. BBii only offers the function to be called that will send the e-mail using PHP mail().

The MemberController action 'watch' allows for the call of this functionality via HTTP. The function takes no parameters. Call example: <http://your.site/forum/member/watch>

The actual work is done by the component class BbiiWatcherMail that can be called by a console command of your own making directly when you have the following import defined in your console.php config file:

```
'import'=>array(  
    // other imports  
    'application.modules.bbii.*',  
    'application.modules.bbii.components.*',  
    'application.modules.bbii.models.*',  
)
```

The console function you create will need to contain

```
$obj = new BbiiWatcherMail;  
$obj->processWatchers('http://your.site/');
```

But more likely your object construction will need to override all default constructor parameters.

NOTE: Be sure that the forum e-mail address is set in the forum settings.

## MEMBER TOPIC SUBSCRIPTION AND UNSUBSCRIPTION

Topic subscriptions by members is only possible when the configuration parameters for the module userMailColumn and allowTopicSub are set.

Topic subscription and unsubscription can be done by clicking a button at the top of a topic page. A member can see an overview of all topics to which he is subscribed in his forum profile, where he can also unsubscribe his subscription to one or more topics.

When a member visits a topic page to which he is subscribed this is registered and only posts are sent to him in the mail digest posted after his last visit to the topic.

Marking all forums read will not update the mail digest to include only posts after all forums were marked read.