

Quick Installation Guide

CereusReporting - Corporate Edition



Version 1.03

- Unicode Support
- DSSStats Support
- Weathermap Support
- Reporting Engine Enhancements
- Support Options



1 Introduction

1.1 About CereusReporting

CereusReporting is a plugin designed to enhance the reporting functionality of the Cacti Network Monitoring solution. CereusReporting adds PDF and HTML report generation as well as email and report scheduling functionality of Cacti.

CereusReporting comes in 2 different editions: The Express Edition with limited functionality but can be enhanced with unlocking additional modules and the Corporate Edition with support for DSStats, Scheduling, Availability reports and other features.

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2 Installation

2.1 System Requirements

- PIA 2.x
- minimum [cacti 0.8.7b](#)
- lib/html_tree.php replacement for 0.8.7b, 0.8.7c, 0.8.7d, 0.8.7e, 0.8.7g (< PIA 2.9)
- tree.php replacement for 0.8.7b, 0.8.7c, 0.8.7d, 0.8.7e, 0.8.7g (< PIA 2.9)
- graph.php replacement for 0.8.7b, 0.8.7c, 0.8.7d, 0.8.7e, 0.8.7g (< PIA 2.9) (mrtg style reports)
- [nmidWebService](#) *only needed for nmidSmokeping addon*
- latest ioncube loaders from www.ioncube.com
- GD support for PHP (php-gd)
- ZIP support for PHP (php-zip) *only needed for HTML report capability*
- Settings plugin *Version 0.6*
- ChartDirector *only needed for DSStats and Availability Charts addon*
- DSStats Plugin *only needed for DSStats addon*
- mbstring functions (php-mbstring) enabled *only needed for mPDF Report Engine*
- memory_limit = 32M *php.ini - 64M is recommended*
- max_execution_time = 60 *php.ini - 120 is recommended*
- error_log = syslog *php.ini - for troubleshooting purposes*
- allow_url_fopen = on *php.ini - required for nmidSmokeping support*
- safe_mode = Off *php.ini*

2.2 Additional Plugins

There are several addons available which provide enhanced functionality to CereusReporting.

2.2.1 mPDF Report Engine

The mPDF Report Engine can be installed additionally to the already included FPDF engine. mPDF provides more features than the FPDF engine, but provided less performance.

2.2.2 DSStats Reports

The DSStats Reports provide some basic Top 10 like reports in addition to the existing RRD Graphics. There are some reports included and others can be added by request.

2.2.3 nmidSmokeping Support

When using the nmidSmokeping plugin, smokeping reports can be added to the PDF Reports using the nmidSmokeping support files.



2.3 Download

The following files are required for the CereusReporting Corporate and Express Edition:

Main Plugin File:

- http://redmine.nmid-plugins.de/attachments/download/308/CereusReporting_v1.71.20_ionCube_full.tgz
- http://redmine.nmid-plugins.de/attachments/download/309/CereusReporting_v1.71.20_ionCube_full.zip

Depending on the operating system:

- http://redmine.nmid-plugins.de/attachments/download/305/parallelGraphRetriever_1.70_linux32bit.zip
- http://redmine.nmid-plugins.de/attachments/download/306/parallelGraphRetriever_1.70_linux64bit.zip
- http://redmine.nmid-plugins.de/attachments/download/304/parallelGraphRetriever_1.70_win32bit.zip
- http://redmine.nmid-plugins.de/attachments/download/307/parallelGraphRetriever_1.70_win64bit.zip

Latest IONCUBE loader:

- <http://www.ioncube.com/loaders.php>

Modified Cacti Files (for Cacti 0.8.7g):

- http://redmine.nmid-plugins.de/attachments/download/225/v03_tree_087g.tgz
- PIA 2.9 for Cacti 0.8.7g

Reporting Engines (optional):

- http://redmine.nmid-plugins.de/attachments/download/235/mpdf_ReportEngine_unicode_45.tgz

Additional Plugins (optional):

- http://redmine.nmid-plugins.de/attachments/download/23/getSmokePingPath_linux.tgz
- http://redmine.nmid-plugins.de/attachments/download/22/getSmokePingPath_windows.zip



2.4 Setup for CentOS 5.5 + cacti 0.8.7g + PIA 2.9

Please note: The CereusReporting plugin will have all functionality enabled on the Express Edition.

Request a trial license for the Corporate Edition:



[Request a trial for the Corporate Single Server Edition](#)

2.4.1 Installation

Installing additional php modules for CentOS:

```
yum install php-gd php-mbstring
```

IonCube loader installation:

```
cd /tmp
wget http://downloads2.ioncube.com/loader_downloads/ioncube_loaders_lin_x86.tar.gz
tar -xzf ioncube_loaders_lin_x86.tar.gz
cp ioncube/ioncube_loader_lin_5.1.so /usr/lib/php/modules/
```



The PHP version is displayed by using the "php -v" command.

Edit/Create the file /etc/php.d/aaa_ioncube.ini

```
; Enable IonCube extension module
zend_extension=/usr/lib/php/modules/ioncube_loader_lin_5.1.so
```

Restart the HTTP server:

```
/etc/init.d/httpd restart
```

Main plugin installation:

```
cd /var/www/html/cacti/plugins/
wget http://redmine.nmid-plugins.de/attachments/download/308/CereusReporting_v1.71.20_ionCube_full.tgz
tar -xzf CereusReporting_v1.71.20_ionCube_full.tgz
chown apache.cacti nmid*
wget http://redmine.nmid-plugins.de/attachments/download/305/parallelGraphRetriever_1.70_linux32bit.zip
unzip parallelGraphRetriever_1.70_linux32bit.zip
chmod +x parallelGraphRetriever
chown apache.cacti parallelGraphRetriever
```

Additional Cacti files:

```
cd /var/www/html/cacti/
cp tree.php tree.php.bak
wget http://redmine.nmid-plugins.de/attachments/download/225/v03_tree_087g.tgz
tar -xzf v03_tree_087g.tgz
```

Installation of additional Reporting Engine with Unicode support:

```
cd /var/www/html/cacti/plugins/nmidCreatePDF/ReportEngines/
wget http://redmine.nmid-plugins.de/attachments/download/235/mpdf_ReportEngine_unicode_45.tgz
tar -xzf mpdf_ReportEngine_unicode_45.tgz
chmod 775 /var/www/html/cacti/plugins/nmidCreatePDF/ReportEngines/mpdf/tmp
```

Place the license file into the main directory:

```
/var/www/html/cacti/plugins/nmidCreatePDF/
```



The license file should be protected from being downloaded by a remote user. This can be done using a .htaccess file, or directly in the httpd.conf file. The following entries need to be placed in there:

```
# File: /etc/httpd/conf.d/ioncube.conf
#
# The following lines prevent IonCube license files from being
# downloaded by Web clients.
#
<Files ~ "\.lic$">
    Order allow,deny
    Deny from all
</Files>
```

2.5 Setup / Configuration

The following steps will guide you through the setup and configuration procedures for the CereusReporting Corporate and Express Edition.

Step 1: Logon to your cacti web-interface as an administrator

Step 2: Go to the “Plugin Management” page:

Step 3: Click on the “Install” link for the nmidCreatePDF plugin

Step 4: Click on the “Enable” link for the nmidCreatePDF plugin

Step 5 (optional): Click on the “Install” link for the nmidWebService plugin

Step 6 (optional): Click on the “Enable” link for the nmidWebService plugin

This will install and enable the CereusReporting Corporate and/or Express Edition for your cacti installation.

Now go to the “User Management” page and select your admin user. You can now set the following options for the CereusReporting plugin. Not all functionality will be available for the Express Edition:

- NMID - Define PDF Reports
- NMID - Generate PDF Reports
- NMID - Manage Availability Data
- NMID - Manage Zenoss Reports

Select both options in order to test the installation. After saving these settings, there should be a new menu showing up in the admin console named “NMID” with the following items:

- Manage Reports
- Manage Backups
- Manage Archive
- Manage Report Schedule
- Manage Availability



You should go to the “Support Info” and check if all modules are installed and all tables and hooks have been registered correctly

The Installation of the CereusReporting Corporate and Express Edition plugin is now complete.



3 Support

3.1 Email Support



Please use the following email addresses

Support:	support@nmid-plugins.de
Sales Inquiries:	requests@nmid-plugins.de

3.2 Community / Forum support

Please use the topic in the Cacti community forum for community support.



<http://forums.cacti.net/viewtopic.php?t=30192>

3.3 FAQ



n/a

3.4 Phone Support

Phone support is available only for valid support contracts.

3.5 Mailing List

Please join the nmid-plugins mailing list for latest news and community support:



n/a