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# Quick Installation Guide

CereusReporting - Express Edition

**Version 2.10.66**



# 1 Introduction

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## 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 DSSStats, Scheduling, Availability reports and other features.

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## 2 Installation

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### 2.1 System Requirements

- Cacti has been installed using the cacti autoinstall script ( <http://forums.cacti.net/viewtopic.php?t=38633> )
- DSStats Plugin *only needed for DSStats addon*
- 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*

### 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

Additional Plugins ( optional ):

- [http://blog.network-outsourcing.de/wp-content/uploads/CereusReportingFiles/getSmokePingPath\\_linux.tgz](http://blog.network-outsourcing.de/wp-content/uploads/CereusReportingFiles/getSmokePingPath_linux.tgz)
- [http://blog.network-outsourcing.de/wp-content/uploads/CereusReportingFiles/getSmokePingPath\\_windows.zip](http://blog.network-outsourcing.de/wp-content/uploads/CereusReportingFiles/getSmokePingPath_windows.zip)





## 2.4 Setup for Centos 6 + cacti 0.8.8a

- 1 Please note: The CereusReporting plugin will not have all functionality enabled on the Express Edition. Scheduling, Archiving and other features will not work
- 2 For Cacti installations with less than 200 active data sources, the full functionality is enabled until the number increases above 200.

Request a trial license for the Corporate Edition:



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

### 2.4.1 Installation - Centos 6 - 32bit

Main plugin installation:

```
1 cd /var/www/cacti/plugins/  
2 wget http://blog.network-outsourcing.de/wp-  
content/uploads/CereusReportingFiles/CereusReporting_Express_v2.10.66.tar.gz  
3 tar -xzf CereusReporting_Express_v2.10.66.tar.gz  
4 rm CereusReporting_Express_v2.10.66.tar.gz  
5 chown -R cacti.www-data CereusReporting/  
6 cd /var/www/cacti/plugins/CereusReporting  
7 wget http://blog.network-outsourcing.de/wp-content/uploads/parallelGraphRetriever-linux-32bit.zip  
8 unzip parallelGraphRetriever-linux-32bit.zip  
9 chmod +x parallelGraphRetriever  
10 rm parallelGraphRetriever-linux-32bit.zip
```

Installation of additional Reporting Engine with Unicode support:

```
1 cd /var/www/cacti/plugins/CereusReporting/ReportEngines  
2 wget http://blog.network-outsourcing.de/wp-content/uploads/CereusReportingFiles/mpdf_ReportEngine_54.tgz  
3 tar -xzf mpdf_ReportEngine_54.tgz  
4 chown -R usercacti.www-data mpdf  
5 chmod 775 mpdf/tmp  
6 rm mpdf_ReportEngine_54.tgz
```

Installation of the IonCube loader:

```
1 cd /tmp  
2 wget http://downloads2.ioncube.com/loader_downloads/ioncube_loaders_lin_x86.tar.gz  
3 tar -xzf ioncube_loaders_lin_x86.tar.gz  
4 cp ioncube/ioncube_loader_lin_5.3.so /usr/lib/php/modules/  
5 echo "zend_extension=/usr/lib/php/modules/ioncube_loader_lin_5.3.so" > /etc/php.d/ioncube.ini  
6 rm -rf /tmp/ioncube  
7 rm /tmp/ioncube_loaders_lin_x86.tar.gz
```

Installation of the ChartDirector PHP module

```
1 cd /tmp  
2 wget http://download2.advssofteng.com/chartdir_php_linux.tar.gz  
3 tar -xzf chartdir_php_linux.tar.gz  
4 cd ChartDirector/lib/  
5 cp -R fonts/ /usr/lib/php/modules/  
6 cp phpchartdir530.dll /usr/lib/php/modules/  
7 cp libchartdir.so /usr/lib/php/modules/  
8 echo "extension=phpchartdir530.dll" > /etc/php.d/chartdirector.ini  
9 cd /tmp  
10 rm -rf /tmp/ChartDirector/  
11 rm /tmp/chartdir_php_linux.tar.gz
```



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## 2.4.2 Installation - Centos 6 - 64bit

Main plugin installation:

```
1 cd /var/www/cacti/plugins/
2 wget http://blog.network-outsourcing.de/wp-
  content/uploads/CereusReportingFiles/CereusReporting_Express_v2.10.66.tar.gz
3 tar -xzvf CereusReporting_Express_v2.10.66.tar.gz
4 rm CereusReporting_Express_v2.10.66.tar.gz
5 chown -R usercacti.www-data CereusReporting/
6 cd /var/www/cacti/plugins/CereusReporting
7 wget http://blog.network-outsourcing.de/wp-content/uploads/parallelGraphRetriever-linux-64bit.zip
8 unzip parallelGraphRetriever-linux-64bit.zip
9 chmod +x parallelGraphRetriever
10 rm parallelGraphRetriever-linux-64bit.zip
```

Installation of additional Reporting Engine with Unicode support:

```
1 cd /var/www/cacti/plugins/CereusReporting/ReportEngines
2 wget http://blog.network-outsourcing.de/wp-content/uploads/CereusReportingFiles/mpdf_ReportEngine_54.tgz
3 tar -xzvf mpdf_ReportEngine_54.tgz
4 chown -R usercacti.www-data mpdf
5 chmod 775 mpdf/tmp
6 rm mpdf_ReportEngine_54.tgz
```

Installation of the IonCube loader:

```
1 cd /tmp
2 wget http://downloads2.ioncube.com/loader_downloads/ioncube_loaders_lin_x86-64.tar.gz
3 tar -xzvf ioncube_loaders_lin_x86-64.tar.gz
4 cp ioncube/ioncube_loader_lin_5.3.so /usr/lib64/php/modules
5 echo "zend_extension=/usr/lib64/php/modules/ioncube_loader_lin_5.3.so" > /etc/php.d/ioncube.ini
6 rm -rf /tmp/ioncube
7 rm /tmp/ioncube_loaders_lin_x86-64.tar.gz
```

Installation of the ChartDirector PHP module

```
1 cd /tmp
2 wget http://download2.advssofteng.com/chartdir_php_linux_64.tar.gz
3 tar -xzvf chartdir_php_linux_64.tar.gz
4 cd ChartDirector/lib/
5 cp -R fonts/ /usr/lib64/php/modules
6 cp phpchartdir530.dll /usr/lib64/php/modules
7 cp libchartdir.so /usr/lib64/php/modules
8 echo "extension=phpchartdir530.dll" > /etc/php.d/chartdirector.ini
9 cd /tmp
10 rm -rf /tmp/ChartDirector/
11 rm /tmp/chartdir_php_linux_64.tar.gz
```

## 2.4.3 Protecting the license file:

InThe license file should be protected for 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:

```
1 # File: /etc/httpd/conf.d/ioncube.conf
2 #
3 # The following lines prevent IonCube license files from being
4 # downloaded by Web clients.
5 #
6 <Files ~ "\.lic$">
7     Order allow,deny
8     Deny from all
9 </Files>
```



Reload Apache:

```
1 /etc/init.d/httpd reload
```

## 2.4.4 Setup the CronJob

It is recommended to use a cronjob instead of the poller based report generation. The following is going to setup a cronjob running once every minute.

As root, run the following command all in one line:

```
1 echo '**/1 * * * * cacti /usr/bin/php /var/www/cacti/plugins/CereusReporting/cron_pdf_scheduler.php > /dev/null 2>&1' >> /etc/cron.d/reportScheduler
```

## 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 CereusReporting plugin

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

Step 5: Click on the “Install” link for the settings plugin

Step 6: Click on the “Enable” link for the settings 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:



- Plugin -> CereusReporting - Define PDF Reports
- Plugin -> CereusReporting - Generate PDF Reports
- Plugin -> CereusReporting - Manage Availability Data
- Plugin -> CereusReporting - Manage Zenoss Reports
- Plugin -> CereusReporting - View Archived Reports

- Plugin -> CereusReporting - View Availability Charts

Select all options as shown in the screenshot 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

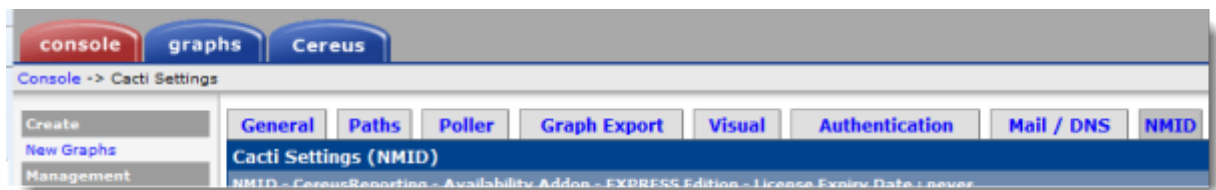


You should go to the “Debug Info” and check if all modules are installed and all tables and hooks have been registered correctly

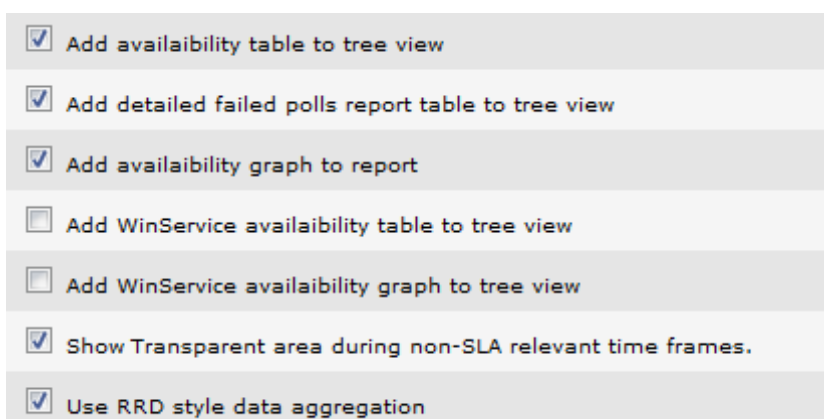
## 2.5.1 Basic Configuration

Now go to:

Console -> Settings -> NMID



In the Availability section, enable the following check boxes:



At the end of that page use the following settings:





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**NMID - CereusReporting - General - CORPORATE Edition - License Expiry Date : never**

|   |   |
|---|---|
| <b>Report Title</b><br>The title of the report. This will only be displayed if the selected tree item is not a header.                                  | <input type="text" value="Generic Report"/>                                 |
| <b>Report Subtitle</b><br>The default sub-title of the report. Eg. 'Provided by your Support Team'  | <input type="text" value="Provided by IT Support"/>                         |
| <b>Report Footer</b><br>The default footer of the report.   | <input type="text"/>  |
| <b>Print Header/Footer to PDF</b><br>Enables/Disabled the printing of the Header and Footer. Should be disabled when using a CoverPage/Template.        | <input checked="" type="checkbox"/> Print Header/Footer to PDF              |
| <b>Report Logo</b><br>The company logo you want to be displayed on the PDF report. The default logo is images/default_logo.png. Needs to be a PNG file. | <input type="text" value="images/transparent_logo.png"/>                    |
| <b>Use 'HOSTNAME(IP)' in host only reports</b><br>Displays 'Report for host hostname(a.b.c.d)' instead of the default report title                      | <input checked="" type="checkbox"/> Use 'HOSTNAME(IP)' in host only reports |
| <b>Graphs link back to cacti</b><br>A click on a graph in the PDF Report links back to the cacti page for that graph                                    | <input checked="" type="checkbox"/> Graphs link back to cacti               |
| <b>Cacti Host/Server URL</b><br>The Cacti Host/Server URL to be used in the graph links   | <input type="text"/>  |
| <b>Archive Directory</b><br>Archive directory for storing the PDF Reports.  | <input type="text" value="archive"/>  |
| <b>GZip binary path</b><br>Path to the GZip binary. Archived reports will be gzipped if this is set.  | <input type="text"/>  |
| <b>Load JQuery CSS</b><br>Load the CSS file for JQuery.   | <input type="text" value="True"/>   |
| <b>Scheduler being used</b><br>The poller is fine for small reports, but it is still recommended to use cron or windows scheduling.                     | <input type="text" value="Cron"/>   |
| <b>Parallel Threads for Graph Retrieval</b><br>The number of parallel processes for retrieving/generating the graphs for the PDF report.                | <input type="text" value="2 Threads"/>                                      |
| <b>Debugging mode</b><br>Enable/Disable the debug mode for defined/on-demand reports ( Enable: Do not delete tmp files ).                               | <input type="text" value="Disabled"/>                                       |
| <b>Date Format</b><br>Date format for reports   | <input type="text" value="2012-01-30 20:19"/>                               |
| <b>PDF Module to use</b><br>Choose which PDF Engine you want to use.  | <input type="text" value="mPDF"/>   |

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

## 2.6 Initial Test

Go to the Graphs tab. You should see a new section for your graphs ( in Tree View / Dual Pane mode only ):

**Graph Filters**

Presets:  From:  To:   Refresh Clear

Search:  Graphs per Page:  Thumbnails:  Go Clear

<< Previous Showing Graphs 1 to 10 of 67 [1,2,3,4,5,6,7] Next >>

Go to any host and click on the little Icon to the right. You should now be presented with a PDF file containing some graphs.



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## 3 Support

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### 3.1 Email Support



Please use the following email addresses

1

Support: <https://urbansoftware.zendesk.com>

Sales Inquiries: [requests@urban-software.de](mailto:requests@urban-software.de)

6

### 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

