



# **CensorNet Professional Migration Guide**

## **(version 1.0.x to version 1.1)**

Revision 1.0  
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## **Introduction**

Improvements in the CensorNet Pro filtering mechanisms from version 1.0.x to version 1.1 require fundamental changes to the database and supporting software packages. *Please read this document in full before performing the migration.*

Because of the required changes, the new CensorNet 1.1.0 software has been distributed as a new and separate Debian package. This means that extra steps need to be taken in order to facilitate the upgrade process.

Previous upgrades have been possible by simply instructing the Debian package manager “apt” to “upgrade” all packages, which included any available upgrades to the “cnv4” (CensorNet Pro version 1.0.x) Debian package.

The new software (version 1.1) is a completely separate Debian package named “censornet”, which conflicts with the old “cnv4” package. This means that the old package (“cnv4”) must be removed before the new (“censornet”) package can be installed.

Removing the “cnv4” package will result in all data being lost. This includes any CensorNet specific system settings for example user authentication settings, and also any database held settings for example users/workstations/filter profiles and log entries (used for reporting).

To help with migrating the settings and data between the old “cnv4” package and the new “censornet” package, we have created a set of migration tools that need to be executed prior to the “cnv4” package being removed. These migration tools create two files, one used to migrate the CensorNet specific system settings (where applicable), and the other to migrate the database (retaining as much data as possible).

## **Creating the migration data**

During this first phase the CensorNet proxy server will remain fully operational, however it may take a few hours to migrate the database log data depending if you decide to migrate the log archives or not (see later).

Locate a workstation that has access to the web user interface for CensorNet. This is where the migration data will be kept during the upgrade procedure. From this workstation make sure you have access to the internet and remote SSH (console) access to the CensorNet server being upgraded. We suggest using the SSH client “PuTTY”, available for download from the internet (Google: “putty download”).

Using a web browser download the following file to your workstation:

<http://www.censornet.com/migrate.tgz>

Next, go to the CensorNet web user interface, login as “admin”, then navigate using the drop down menu to the: System > Maintenance > Upgrade page. Click the “Browse” button and select the previously downloaded “migrate.tgz” file. Then click the “Apply Upgrade” button. This will install the two migration tools required to create the migration data.

Using your SSH client (e.g. PuTTY) connect to your CensorNet server. Note: You must have the “ssh” Debian package installed on your CensorNet server otherwise remote SSH will not be available. Once connected, login as the “root” user and when prompted enter the “root” user password.

Once logged in as “root”, execute the following command:

```
migratesettings
```

This will create a file that you will use later to reinstate all CensorNet specific system settings once the new package is installed. When the script has finished, it will prompt you to point your web browser at a specific URL located on the CensorNet server, for example:

```
http://10.0.0.20/censornet/new_censornet_settings.tgz
```

Save this “new\_censornet\_settings.tgz” file in a safe place on your workstation for use later.

Now, go back to your remote SSH session and execute the following command:

```
migratedb
```

This script will prompt (ask) you if you want to migrate the log archives or not. Log archives are the older log data used to generate reports from the CensorNet web user interface and may be many hundreds of megabytes. As there may be a large amount of data in these archives you may want to skip migrating them.

So, either enter “Y” meaning, “Yes I want to migrate the archives”, or “N” meaning, “No I do not want to migrate the archives”.

The script will then proceed to migrate all of the users, workstations, filter profiles, filter settings and log entries from your existing CensorNet database to a file that you will use later to reinstate all the settings in the new CensorNet package.

Once finished the script will prompt you to point you web browser at another specific URL located on the CensorNet server, for example:

```
http://10.0.0.20/censornet/new_censornet_db.pgdump
```

Save this “new\_censornet\_db.pgdump” file in a safe place on your workstation for use later.

### **Installing the new CensorNet Debian package**

After the next step the CensorNet proxy server will be offline, so it is suggested you proceed at a time convenient for the users of the proxy server.

In order to complete this installation you will need a copy of your CensorNet license file, if you can not locate it email [support@censornet.com](mailto:support@censornet.com) and ask for a copy.

Using your SSH client connect to your CensorNet server if not already connected, and login as the “root” user then execute the following command:

```
apt-get remove cnv4
```

You will be asked to confirm the action. After this is complete, execute the following commands:

```
apt-get update
```

```
apt-get install libapache-mod-php5
```

If asked to confirm any actions, answer “Y” (meaning “Yes”). Then execute the following command:

```
apt-get install censornet
```

When asked, confirm actions by entering “Y”, or accepting any default values if prompted by any blue and white dialog boxes.

Once the new package is installed, visit the CensorNet web user interface and login as “admin”. Navigate using the drop down menu to: System > Install License. Click the “Browse” button and locate the CensorNet license file on your workstation, then click the “Import License File” button. Make sure the license has been accepted by looking for any errors that may be printed on screen.

### **Re-instating the migrated settings and database files**

Navigate to the web user interfaces System > Maintenance > Upgrade page, click the “Browse” button and locate the “new\_censornet\_settings.tgz” file you saved earlier. Then click the “Apply Upgrade” button. This should re-instate any CensorNet specific system settings, for example the user authentication settings.

If you have installed the new “censornet” Debian package on to the same server, the migrated database should be already installed. You can check this by viewing the users/workstations/policies sections of the web user interface. If the database seems empty then proceed with the following steps, otherwise your upgrade is complete and you should proceed to the last section of this document “Reviewing the new filter policy settings”.

To re-instate the database, navigate to the web user interfaces System > Maintenance > Database Backup/Restore page. Click the “Add” button in the lower section of this page, then select the “new\_censornet\_db.pgdump” file you saved earlier. Next, click the “Upload” button, the file will begin uploading and a progress bar will show you the progress of the upload.

Once the upload is complete, the file “new\_censornet\_db.pgdump” will appear in the “Backup Files” dialog towards the top of the page. Select this file by clicking the radio button to the right of the filename, then click the “Restore Selected” button. This restoration process may take a while depending on the size of the database backup

file. After the restoration process is complete the system will automatically reboot and the migrated database will be re-instated.

### **Reviewing the new filter policy settings**

One of the major upgrades to the CensorNet Pro software is the Content Classifier (“cfi”) module’s category database. The new database consists of over 58 million web sites, categorized into over 100 categories. Any filter policies you had previously will have been conserved, however it is strongly recommended that you review the profile settings for the Content Classifier module and make sure the settings are applicable to all of your filter policies.

For example, by default the new Content Classifier allows access to most web sites that are deemed safe for children to view, and blocks content deemed obscene. These are highly generic settings and it is likely you will want to tweak them depending on which users are attached to which policies you are operating.

To review the filter settings, navigate to the web user interface’s Policies > Manage Policies page and go through all defined policies and make sure the Content Classifier module settings are applicable.

### **Configuring the new URL Database Update settings**

The new Content Classifier requires the operation of a massive URL database updated daily. To begin with your CensorNet server will be operating in “Online Lookup Mode”, meaning that all requests are classified against a database on CensorNet Ltd’s remote web server. **This degrades the performance of the proxy, and if your ISP limits your internet access via a firewall or upstream proxy server you may not be able to operate CensorNet until a local copy of the URL database is available.**

Please contact [support@censornet.com](mailto:support@censornet.com) to obtain your URL Database Update username and password. Note also that the URL Database updates will only work if you have a full CensorNet license installed, “demo” licenses may only operate in “Online Lookup Mode”.

Once you have your URL Database Update username and password, navigate to the web user interface’s Filters > URL Database Updates page, and enter the “Update Source Username” and “Update Source Password” as given to you by CensorNet Ltd support. Make sure the “Update Time” is at a time of day where proxy usage is at a minimum; we suggest a time in the early hours of the morning for this. Also, make sure the “Update Source URL” is showing as:

<http://www.censornet.com/rdupdate/web.pl>

You will see a banner towards the top of the web user interface’s front page indicating whether your CensorNet proxy server has successfully downloaded a local copy of the URL Database or not. Once operating the URL Database Subscription section of the web user interfaces front page will show the number of URLs in the database and the time of the last successful update.