Canon
Professional Services

DCMUp

Fast Single Settings Deployment for Canon Devices

V1.5.0

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Introduction

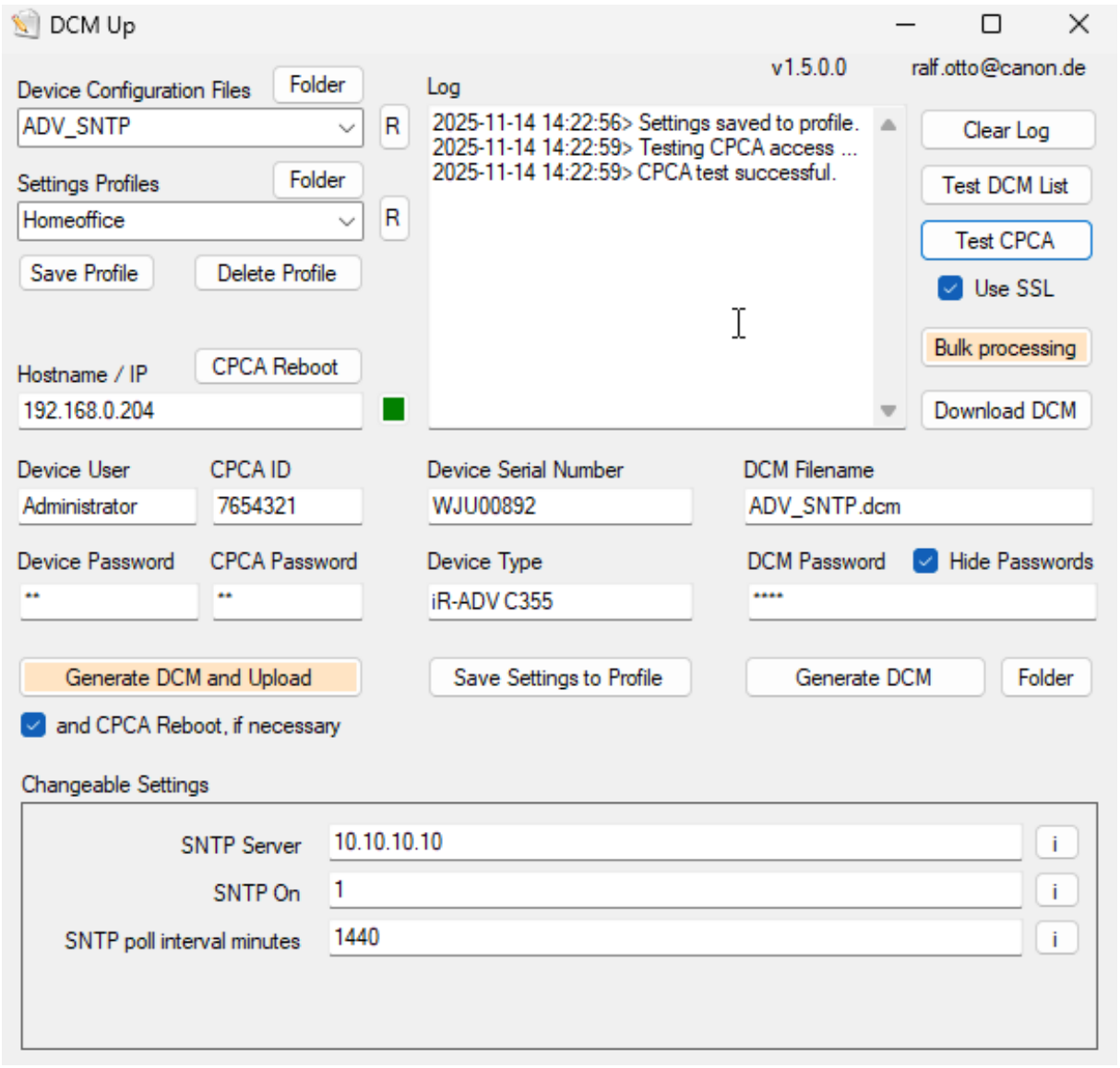
With DCMUp you can send single device settings to one or multiple Canon devices. This function allows you to easily change single device settings in seconds without overwriting existing device settings.
DCMUp support all Canon devices who support the up- and download of DCM settings files.

DCM files are password encrypted settings files of Canon devices. DCMUp can download, generate and upload these files to all supported devices.

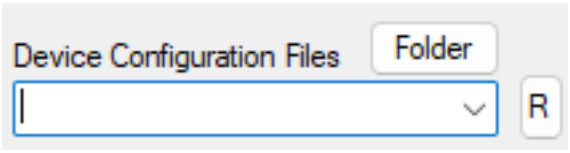
Installation

Just unzip the DCMUp_portable.zip into a folder as needed and start the DCMUp.exe file.

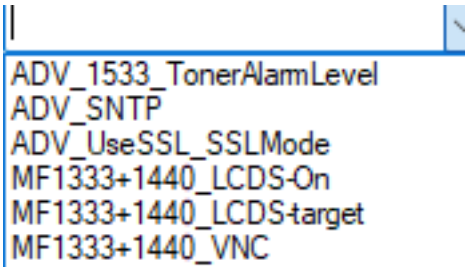
The GUI



Device Configuration Files



In this section you can select (drop-down menu) any existing device configuration file that is in the “XML” folder inside of the program directory. These configuration files include all necessary settings per device type that you want to change. Some of these settings include fixed settings, other offer one or more user changeable settings in the section “Changeable Settings” in the bottom of the program window.

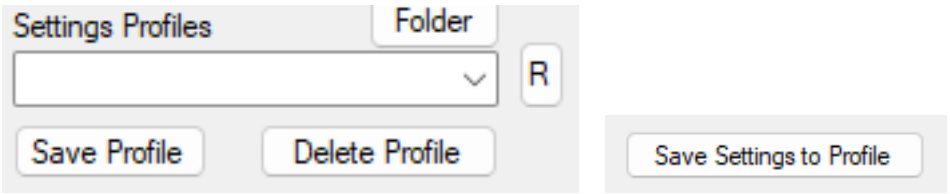


The name of the device configuration files always starts with the device types supported by this setting.

By pressing the “Folder” button, the “XML” folder inside of the program directory will be opened in the file explorer.

By pressing the “R” button, the list of XML files shown in the drop-down menu will be refreshed. This is needed, if new XML files are added manually to the XML folder during runtime.

Settings Profiles



In this section you can select, create and delete a settings profile.
With settings profiles you can save and recall the settings “IP/Hostname”, “Device User”, “Device Password”, “CPCA ID”, “CPCA Password” and the reboot option (please refer to “Generate DCM and Upload”). In addition, all “Changeable Settings” (Please refer to “Changeable Settings”) will be stored.

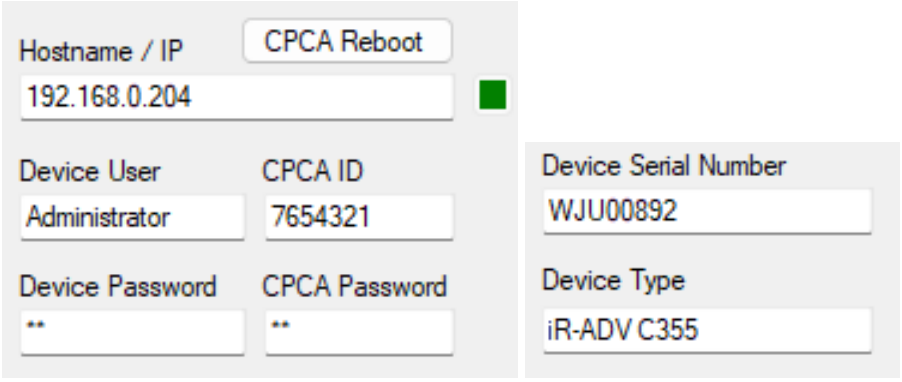
To create a profile, just type in a profile name and click “Save Profile”. To load a profile, just select in from the drop-down menu. To delete a profile, press the “Delete Profile” button after selection.

By pressing the “Folder” button, the “Profiles” folder inside of the program directory will be opened in the file explorer.

By pressing the “R” button, the list of profiles shown in the drop-down menu will be refreshed. This is needed, if a new profile is added manually to the profile folder during runtime.

When you change something in the profile data you can save these changes to a chosen profile by pressing the “Save Settings to Profile” button.

Device Data



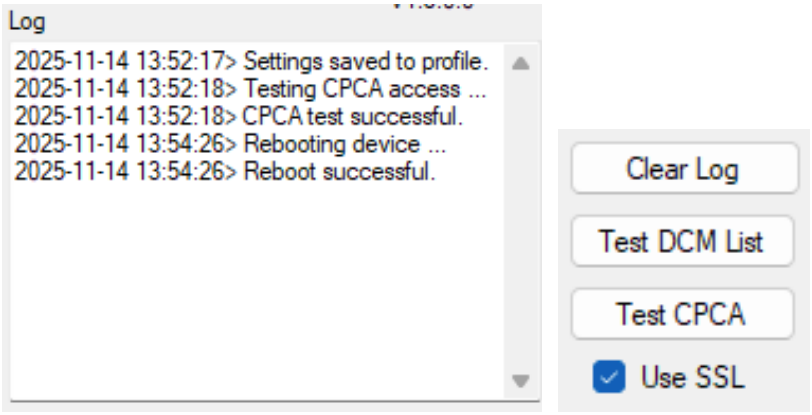
In this section you can enter or check the device data.
The LED new the “Hostname / IP” field shows the device status. Ich the entered hostname or IP are wrong, then the LED will be grey. If hostname or IP are correct, the connection will be checked immediately. When the device is pingable, then the LED will turn green. If the device is not reachable, the LED will turn red.
If the device is reachable the “Device Serial Number” and the “Device Type” will be read immediately (only if SNMPv1 is enabled on the device).

You have to enter the “Device User” and the “Device Password” to allow DCMUp to read or write settings.

For the reboot function you have to enter the “CPCA ID” and “CPCA Password” to allow DCMUp to access the devices CPCA interface.

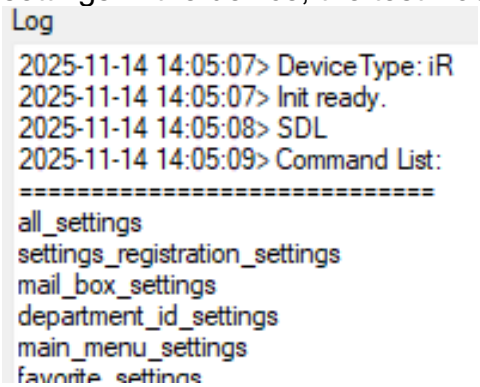
For an immediate reboot of the device click the “CPCA Reboot” button.

The Log and test functions

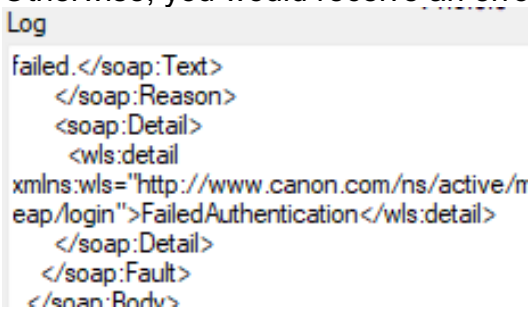


All actions are logged in this section. The log can be cleared manually by pressing the “Clear Log” button. The log will be cleared automatically before each upload of settings.

To check, that you can connect to the device DCM interface to up- and download settings, you can press the “Test DCM List” button. If you receive a list of all available settings in the device, the test was successful:



Otherwise, you would receive an error:



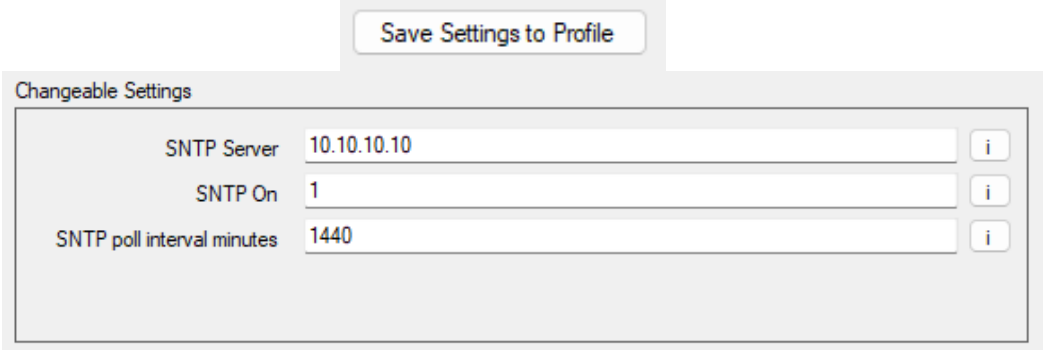
In this sample the Device Password was not set correctly.

If your device does not support communication over SSL, you can try to disable the “Use SSL” checkbox and try again.

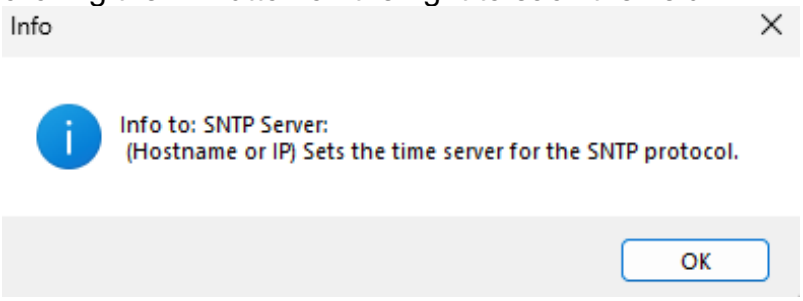
Changeable Settings

Some device configuration files allow the direct entry of values before DCM generation. With this function you can easily change single device settings in seconds without overwriting existing device settings.

If your device configuration file supports changeable settings, these settings will be displayed in the section “Changeable Settings” as soon as you have selected the configuration under the “Device Configuration Files” drop-down menu:

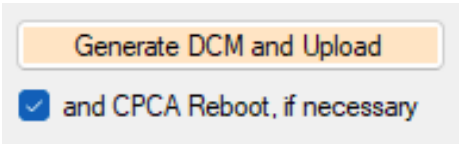


In this sample (“ADV_SNTP”) you can change the SNTP server entries for the device. If you are unsure what to put in the fields, you can get a short explanation by clicking the “i” Button on the right to each the field:



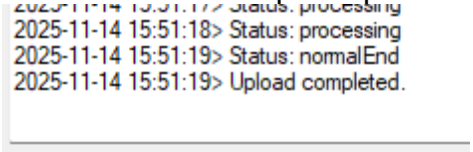
If you want to save the entered values as default values to your current settings profile, you can click the “Save Settings to Profile” button.

Generate DCM and Upload

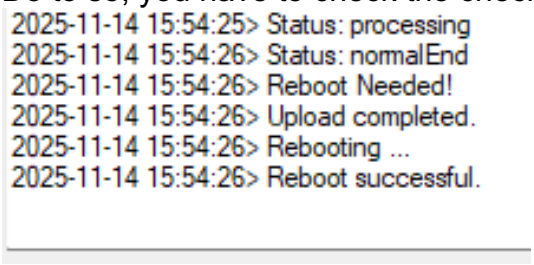


If you have finished all settings, you can click the “Generate DCM and Upload” button. DCMUp will then generate a new DCM with your chosen or entered settings and upload it to the selected device.

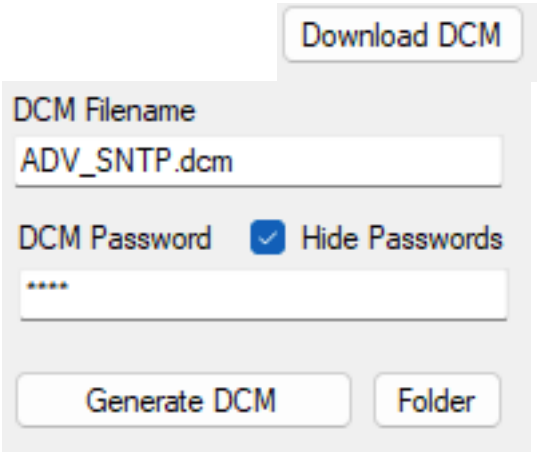
The results of the upload process will be shown in the log window:



When uploading a DCM file to MF device (e.g. i-SENSYS-X) the device will reboot automatically after about 2 minutes. If you are uploading to larger devices like (e.g. iR-ADV) then it depends on the written settings, if a device reboot is necessary or not. DCMUP detects a needed reboot automatically and can immediately reboot the device.
Do to so, you have to check the checkbox “and CPCA Reboot, if necessary”:



DCM Settings, DCM generation and DCM Download



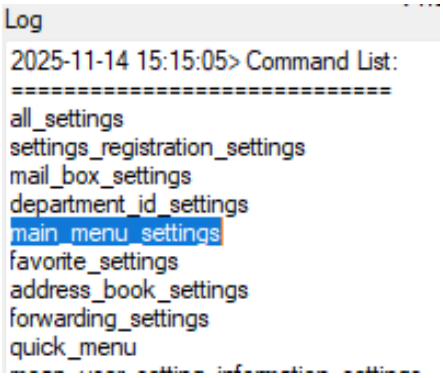
In this section you can set the used password when generation or downloading a DCM file.
To set the password enter it in the “DCM Password” field. With the checkbox “Hide Passwords” you can hide (checked) or unhide (unchecked) all passwords in the GUI of DCMUp.

The “DCM Filename” is generated automatically when selecting a profile. If you want to generate a DCM file (see next paragraph) with a different name or download a DCM file from a device you can change the filename as you like. Please always append the suffix “.dcm” to the filename.

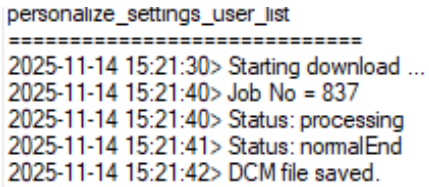
With the button “Generate DCM” you can generate a DCM file e.g. for manual upload with all settings defined by the “Device Configuration File” and the values entered in the section “Changeable Settings”.
The file will be stored in the “DCM” folder inside of the program directory. To open this folder in the windows explorer you can click the “Folder” button.

You can also use DCMUp to download a DCM file for manual edition or as a backup of settings. To do so, you have to select a “Device Configuration File” first, to tell DCMUp the type of device you are talking to. Then click the “Test DCM List” button on the right of the Log (please refer to the section “Log and test functions”) to get a

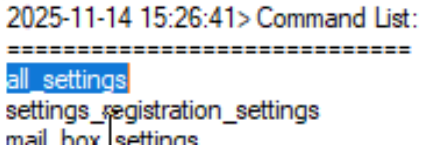
list of all available device settings. Choose ONE of these settings by double clicking the text line:



Then click the “Download DCM” button. The download process and the result of the download will be shown in the log. The file will be saved in the “DCM” folder inside of the program directory with the name given in the field “DCM Filename” and protected with the password given in the field “DCM Password”.



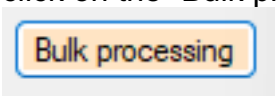
To download all settings from the device please choose the entry “all_settings” from the log window.



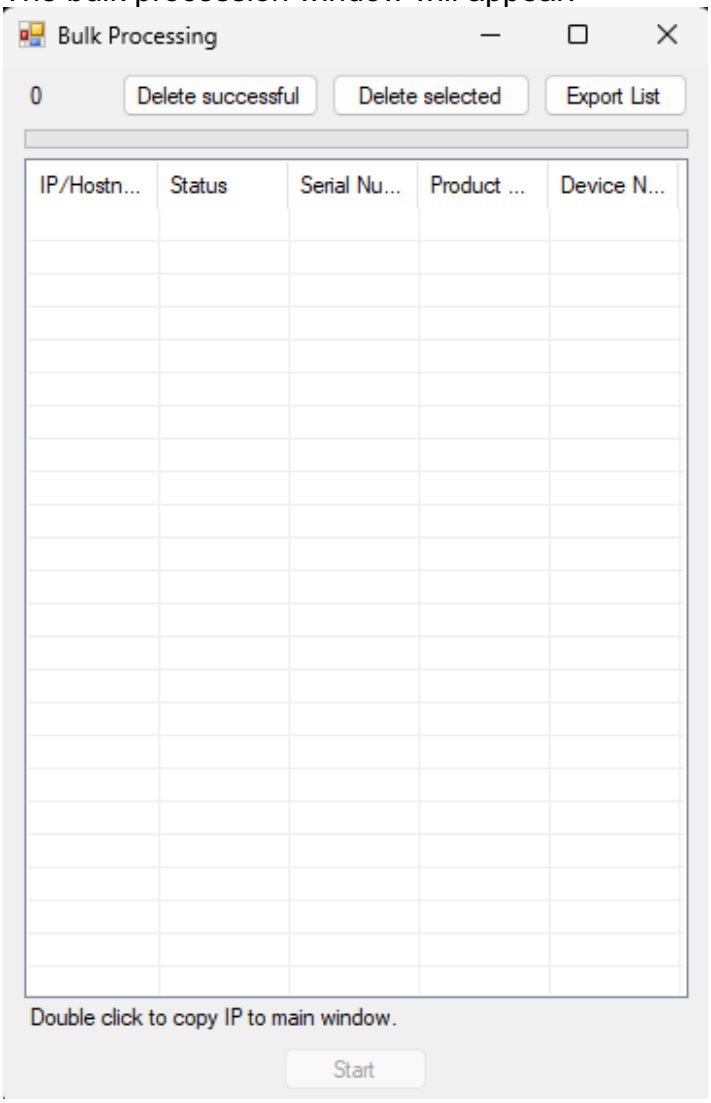
Bulk processing

With bulk processing you can write settings the same way as before but on multiple devices. Bulk processing is doing one device after another.

To use bulk processing just configure DCMUp as before for a single device and then click on the “Bulk processing” button.



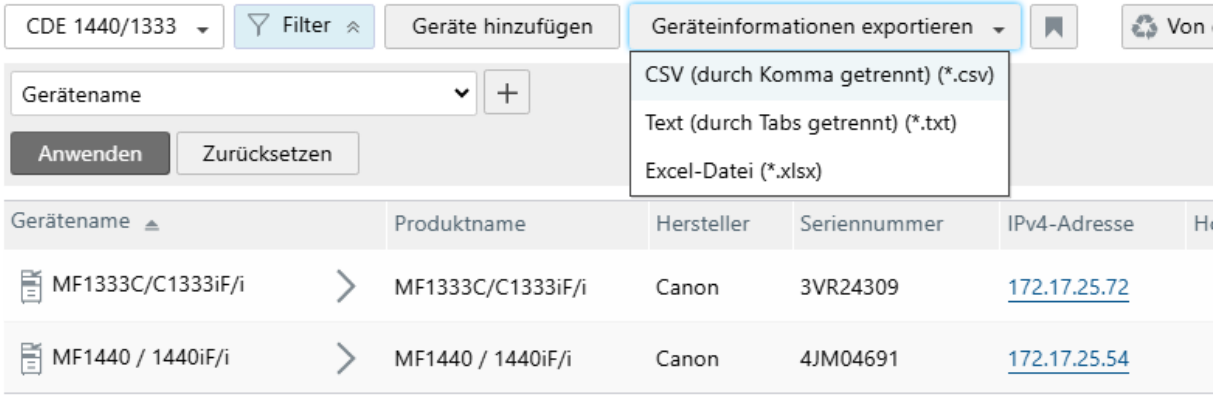
The bulk procession window will appear:



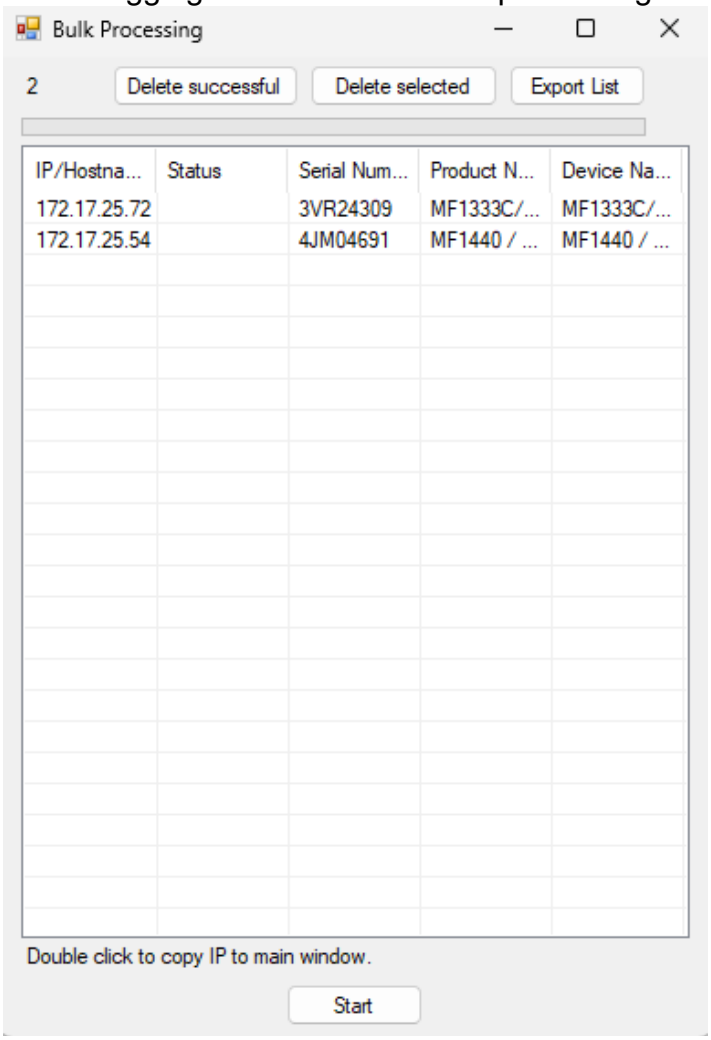
You can import a list of devices by dragging a csv file into the bulk procession window. The csv file can have to following headers:
IPv4,Host name,Device Name,Product Name,Serial Number
or:
IPv4,Hostname,Gerätename,Produktname,Seriennummer

Additional headers will be ignored at import.

The columns “IPv4” or “Host name” (“Hostname”) are mandatory headers. The file extension can be “*.csv” or “*.txt”. You can get such a device list e.g. by exporting the device list from an existing iWEMC installation:



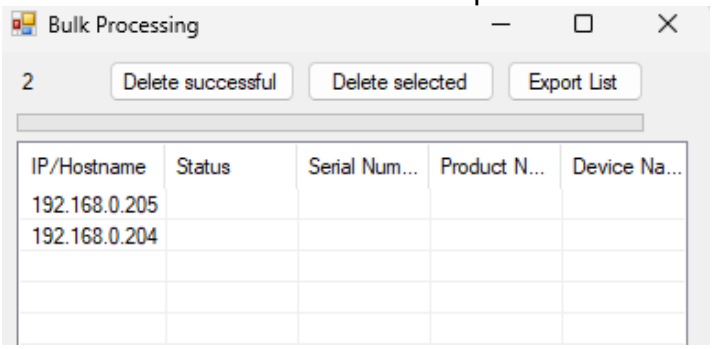
After dragging the file into the bulk processing window, the devices will appear:



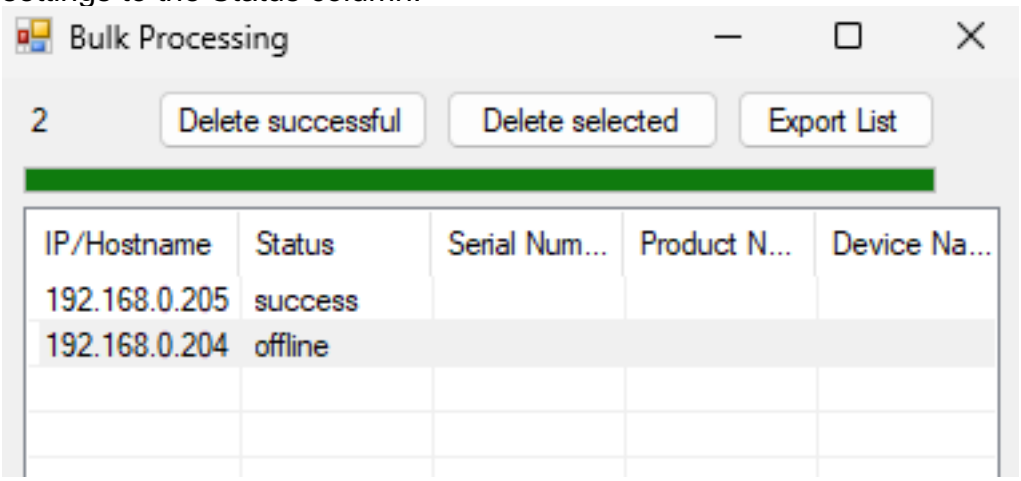
The simplest list is just a text file with the header “IPv4” and the IP addresses, each in a separate line:

IPv4
192.168.0.205
192.168.0.204

And here is the result from the import:



To start the bulk processing click the “Start” button. DCMUp will then process one device after the other from the top of the list on and write the result of writing the settings to the Status column:



After processing all devices, you can decide to keep only the devices with an error by pressing the „Delete successful“ button. DCMUp will then remove all device with the status „sucess“ from the list for a second run.

You can also select some devices (e.g. offline devices) and click „Detele selected“ to remove these devices from the list.

If you want to export the actual list for a later import and run, you can click the „Export List“ button. The exported file can be imported again with drag & drop.

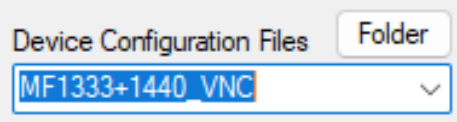
During the bulk processing the “Start” button will turn into a “Stop” button. By clicking it, DCMUp will stop the bulk processing if the actual device upload is finished.

Use cases

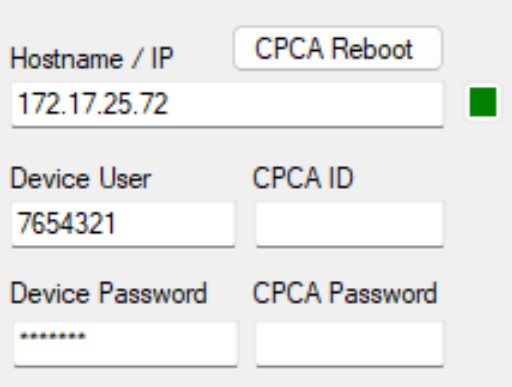
VNC viewer control on an i-SENSYS C1333 device

To control the VNC viewer function on a 1333 device follow these steps:

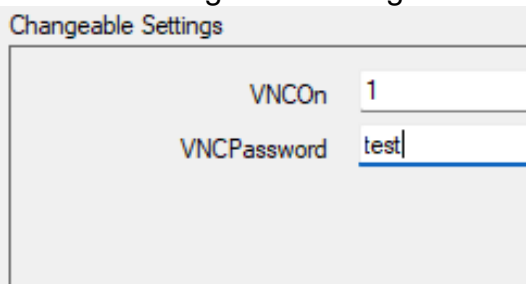
- Choose the configuration:



- Choose a “Settings profile” or just enter the Hostname/IP of the device you want to write the settings to and enter the device credentials

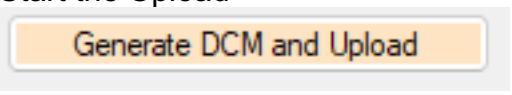


- Fill in the changeable settings



Set “1” for VNC function on or “0” for VNC function off and type in a VNC password of leave the field empty to clear the password.

- Start the Upload



- Check the results in the log