

DESKO DeviceUpdater

ReadMe

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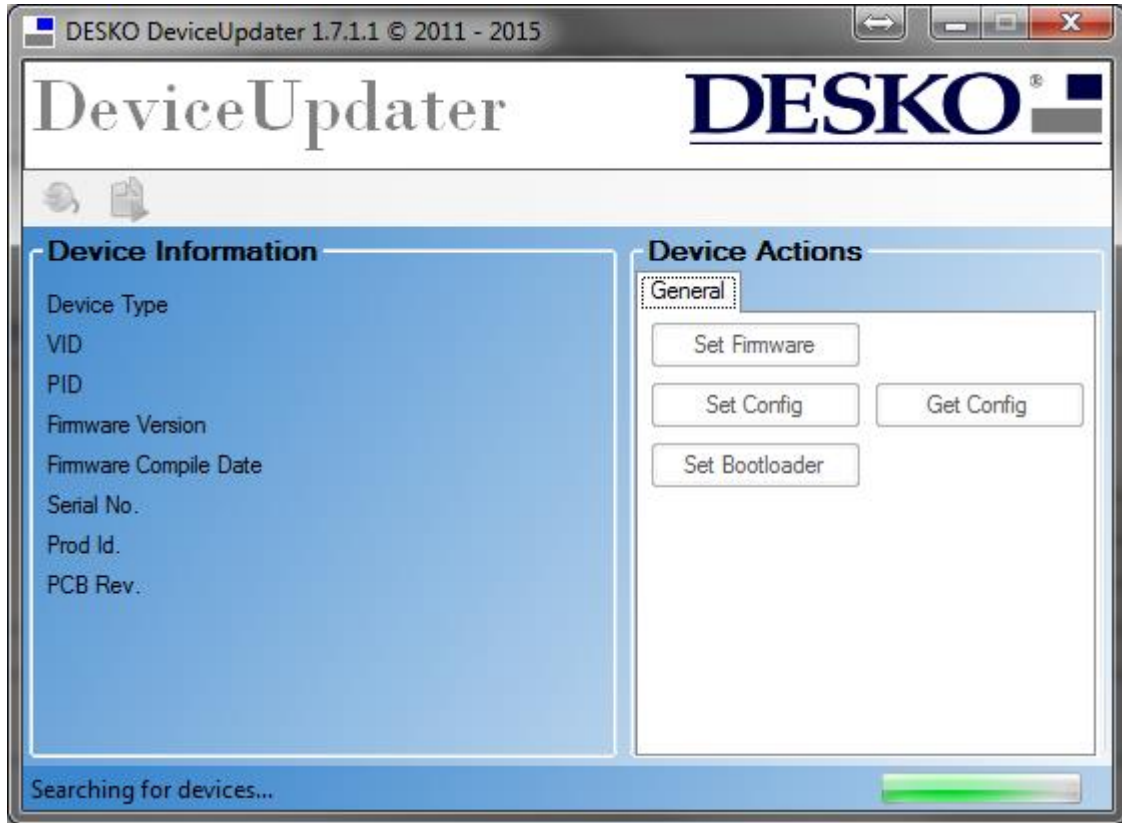
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1 Features

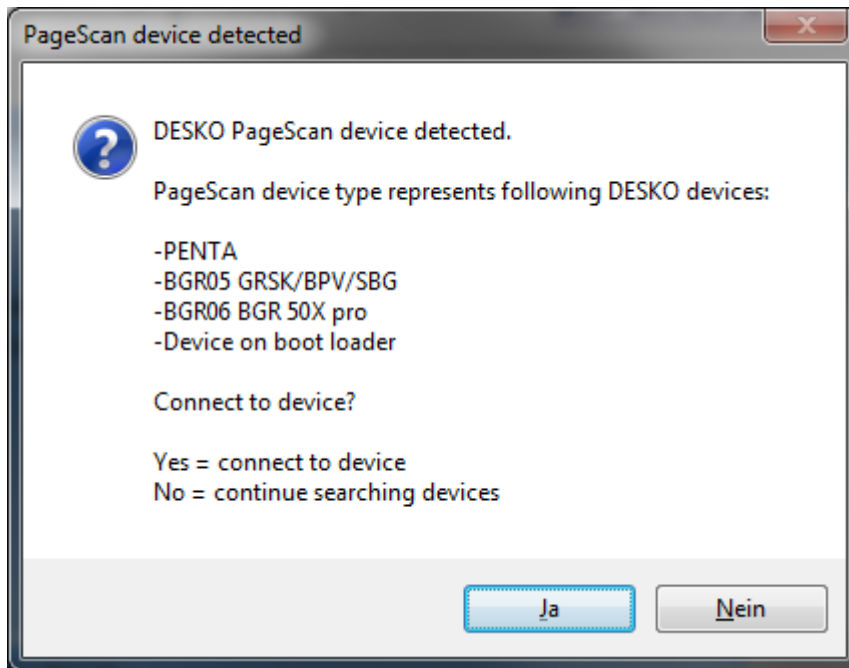
The DESKO DeviceUpdater can be used to update the firmware of DESKO devices, as well as modify the devices' configuration and other characteristics.



1.1 Connecting a DESKO Device

The DeviceUpdater will start searching for DESKO devices automatically from the start of the application. Alternatively you can click (connect device) to start the search.

When a device is detected, the DeviceUpdater will prompt a message to the user, asking whether or not a connection to this type of device should be established.



If multiple DESKO devices are connected to the PC, the message above will appear several times sequentially. This approach allows to browse through all the DESKO devices currently available on the computer.


As soon as the desired DESKO device is detected, the connection can be established by clicking "yes".

Please note


A connection can only be established successfully, if there is no other software already accessing the device!

When a connection has been established successfully, the device's information is displayed accordingly. Additionally, several options of device actions appear.



Clicking  (disconnect device) will close the device connection.

1.2 Firmware Update


A firmware update can be performed by clicking  and selecting the desired .ldr file. The DeviceUpdater will automatically check the compatibility of the firmware file and the connected device.

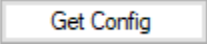
Please note

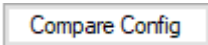
This compatibility check cannot be performed in case of devices running in boot loader mode. Therefore a warning message will appear accordingly, advising the user to make sure to select a compatible firmware file.

1.3 Configuration Update

The device configuration contains application relevant information for the device and is stored as .xml files.

To load a configuration file to the device, please click  and select the desired .xml file.

A device configuration can also be read from the device and stored into a new .xml file. Therefore, please click .

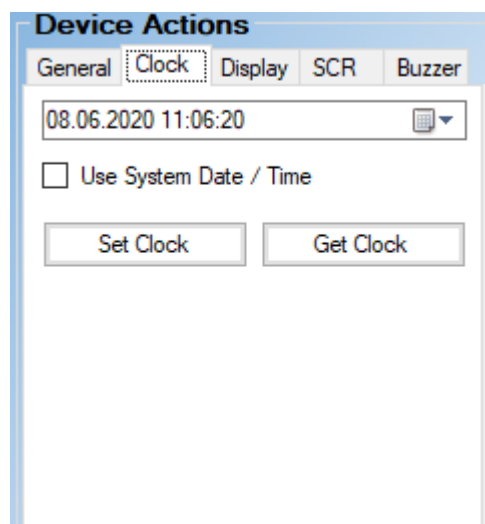
To find out which configuration is currently installed in the device, please click  and select **one or more** configuration files that could potentially match the device's configuration. The device updater will then compare each of the selected files with the device's current configuration and point the matching file.



As configurations cannot be identified by version numbers (like firmware), they can only be identified by comparison as described.

 reboots the connected device, thereby disconnecting from the device.

1.4 Device Clock Setup

If the connected device is equipped with an on-board device clock, a new device actions tab page "Clock" will appear.

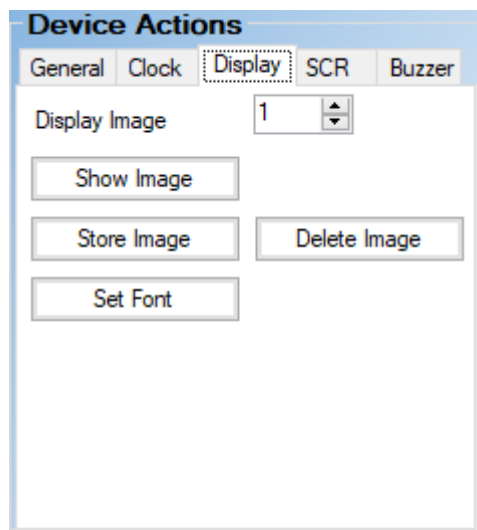


 and  allow you to configure the selected time to the device or to read the currently configured time from the device.

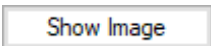
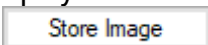
The selected time can be set to the current PC's system time by clicking on the corresponding option.

1.5 Display Management


If the connected device is equipped with a display, a new device actions tab page "Display" will appear.



The images shown on the device's display are usually stored on-board on the device. The device can store 128 images.

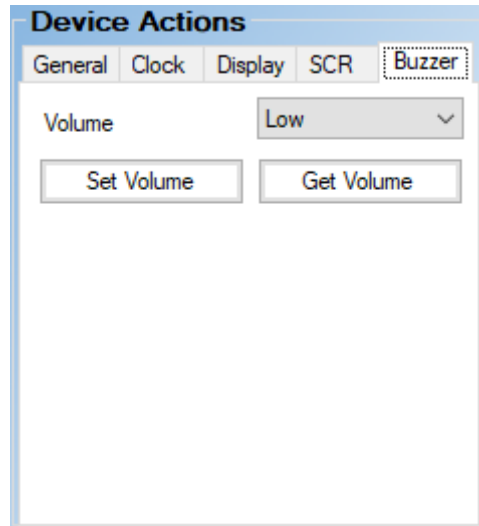
 displays the selected stored image on the devices display. You can load new images to the device by selecting the desired index, clicking  and selecting the desired .bmp file.


 will delete the selected image from the device's storage.


The device also supports the use of fonts. A font can be installed by clicking  and selecting the desired .pgm file.

1.6 Buzzer Configuration

If your device is equipped with a configurable buzzer, you can set the volume of that buzzer.

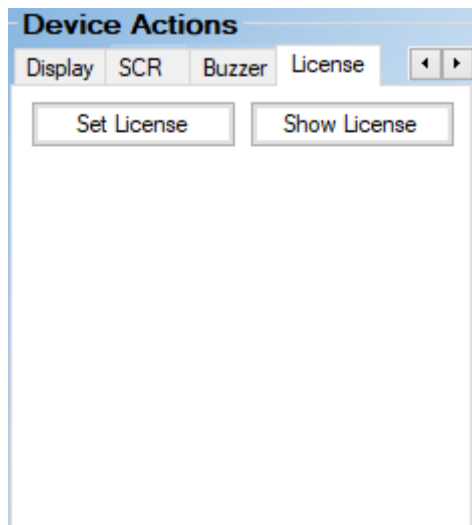


 reads the current volume from the device.


 writes the selected volume to the device. The device may then reboot and disconnect depending on the individual model.

1.7 License Management

If the connected device supports Licenses, you can manage them in the “Licenses” tab.



 lets you select a DESKO license file and write it into the device.

 opens another window and shows the content of any license currently present in the device.

1.8 Device Update Package Execution

DESKO Device Update Packages are special files (.dup file extension) which are used to automate the DeviceUpdater for certain jobs.

They contain a set of pre-defined steps for pre-determined DESKO device types. Whereat a step represents any of the features described above, such as firmware update, configuration update, installation of display images etc.

Therefore, using DESKO Device Update Packages relieves the user from performing those steps manually, eliminating the risk of manual errors.

A .dup file can be executed by clicking  (execute Device Update Package), or by double-clicking the .dup file.

When executing a .dup file, the DeviceUpdater will automatically establish a connection to the DESKO device types, defined in the Device Update Package. Therefore, the Device Update Package execution option is only available in disconnected mode.

DESKO Device Update Packages can also be configured to run in unattended or silent mode, to allow automated distributed execution.

DESKO Device Update Packages are always created by DESKO.

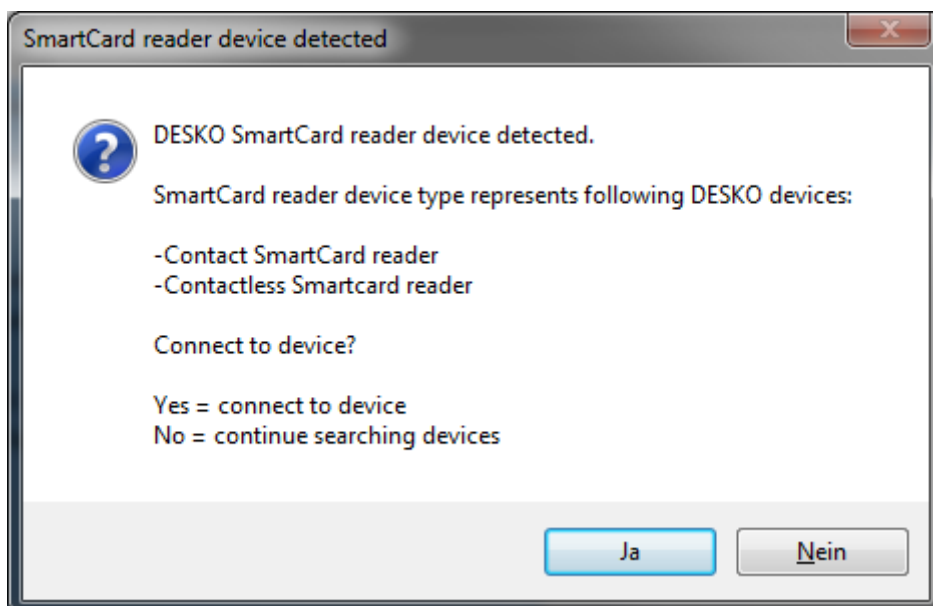
2 Important Notes

2.1 Using DESKO SmartCard Readers

Some DESKO Devices are equipped with a SmartCard Reader (= RFID Reader). Older versions of these SmartCard Readers are represented as a mere feature of a (parent) DESKO device (described in item **Fehler! Verweisquelle konnte nicht gefunden werden.**).

Later versions of SmartCard Readers are represented as a separate device type of its own. They are capable of firmware and configuration updates, just like other DESKO device types.

When such a newer version of a SmartCard Reader is detected, the following popup will appear during the search for devices:



3 Command Line Parameters

3.1 DUP Execution

The device updater can be called via command line / batch to execute a DUP by just providing the file name of a .dup file.

`DeviceUpdater.exe DupFileName.dup`

There are no parameters to run the dup silently or unattended. These are settings that are configured within the respective .dup file.

Return Codes:

Return Code	Value (dec)	Description
NO_DUP	-1	Default value when running DESKO DeviceUpdater manually without .dup-file. Cannot be returned when processing a .dup-file.
DUP_SUCCESS	0	One DESKO device has been updated successfully.
DUP_ERROR	1	Default error.
DUP_ERROR_NO_FILE	2	The .dup file was not found at the provided location.
DUP_ERROR_NO_DEVICE	3	No DESKO device, intended to be updated by the DUP, has been found on this computer.
DUP_ERROR_TIMEOUT	4	Timeout occurred. E.g. during reconnecting.
DUP_ERROR_FIRMWARE	5	Error during firmware update occurred.
DUP_ERROR_CONFIG	6	Error during configuration update occurred.
DUP_ERROR_BOOTLOADER	7	Error during bootloader update occurred.
DUP_ERROR_DISPLAY_IMAGE	8	Error during display image update occurred.
DUP_ERROR_DISPLAY_FONT	9	Error during display font update occurred.
DUP_ERROR_RFID_CONFIG	10	Error during rfid configuration update occurred.
DUP_ERROR_NO_RFID	11	No RFID reader, intended to be updated by the DUP, has been found on this computer.
DUP_ERROR_LICENSE	12	Error during license update occurred.

3.2 Dump Mode

The device updater can be used to dump all available devices and write their details into a .csv file.

```
DeviceUpdater.exe /dump TargetFileName.csv
```

Note: The file ending of the target file can be chosen arbitrarily. But the file content will always be a comma separated values file, that can be viewed with common table calculation applications such as MS Excel.

Note: When in dump mode, the device update will run silently. This means no window will appear.

The file will contain the following columns (in the given order):

- **Timestamp**
Date and time when the device was detected.
- **DeviceType**
The type of the detected device.
- **UsbVid**
USB vender ID of the device.
- **UsbPid**
USB product ID of the device.
- **SerialNo**
Serial number of the device (if available).
- **FirmwareVersion**
Firmware version installed on the device.
- **FirmwareCompileDateTime**
Compile date and time of the firmware installed on the device.
- **ProductionId**
Identifies the article and configuration variant of the device (if available).

Return Codes:

Return Code	Value (dec)	Description
DUMP_SUCCESS	0	No error. Dump file was successfully created.
DUMP_ERROR	1	Generic error.
DUMP_ERROR FILE	2	The .csv file could not be created.