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Upgrade Guide

PPU - Pilatus Processing Unit – FURKA / GRIMSEL Upgrade Guide

This Upgrade Guide is valid for the following FURKA and GRIMSEL versions:

FURKA Version: *V.3.7.1*

GRIMSEL Version: *V.3.7.1*

Document Version: V4

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1. Document History

1.1. Current Document

Version	Date	Status	prepared	checked	released
4	24.08.2021	Released	DieG	LisG	DieG

1.2. Changes

Version	Date	Changes
1	17.12.2015	First version of the document
2	10.02.2016	Layout and minor text adaptions
3	21.08.2019	Update of Corporate Design
4	06.08.2021	Added python-dectris installation

2. How to Use this Upgrade Guide

This Upgrade Guide takes you through the process of upgrading FURKA and GRIMSEL on PPU / Detector Server systems with older versions of FURKA and GRIMSEL.

Before you start to upgrade the PPU or the detector server please read this Upgrade Guide carefully.

2.1. Address and Support

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Website:

- www.dectris.com → support → Technical Notes → PPU
- www.dectris.com → support → FAQ
- www.dectris.com → support → Problem Report

Email:

- support@dectris.com

Should you have questions concerning the system or its use, please contact us via phone, email or fax.



Do not ship the system back before you receive the necessary transport and shipping information!

2.2. Explanation of Symbols

Symbol	Description
	Important or helpful notice.
	Caution. Please follow the instructions carefully to prevent equipment damage or personal injury.

2.3. Disclaimer

DECTRIS Ltd. has carefully compiled the contents of this manual according to the current state of knowledge. Damage and warranty claims arising from missing or incorrect data are excluded.

DECTRIS Ltd. bears no responsibility or liability for damage of any kind, also for indirect or consequential damage resulting from the use of this system.

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3. PPU FURKA / GRIMSEL Upgrade

3.1. Preparation

3.1.1. Currently Installed FURKA and GRIMSEL Versions

To identify which version of FURKA and GRIMSEL is currently installed use the following commands on the PPU.

For GRIMSEL

```
/usr/local/dectris/bin/grimsel_dectris --version
```

Example of the shell output:

```
GRIMSEL version 3.1
Copyright 2012 Dectris Ltd.
```

For FURKA

```
/usr/local/dectris/bin/furka_dectris --version
```

Example of the shell output:

```
FURKA version 3.1
Copyright 2012 Dectris Ltd.
```

3.1.2. Downloading the Latest Version of FURKA and GRIMSEL

You can download the latest versions of FURKA and GRIMSEL from the Download section of our homepage: https://www.dectris.com/support/downloads/software/furka-grimsel/. You will have to login first to access this page.

When using a fresh installation, make sure to install the package `python-dectris` before anything else! It simply contains scripts to make sure the python site-packages is updated and contains all necessary links.

3.2. Preparing when using a fresh installation

Change the directory to your Downloads folder e.g.:

```
cd /home/det/Downloads/
```

or to wherever you saved the software.

Unpack the python-dectris tgz-file using the following command:

```
tar -xvzf python-dectris.tgz
```

3.2.1. python-dectris installation

Become root (su) and enter the following command:

```
yum install python-dectris-<version>.rpm
```

Confirm installation.

Continue with FURKA and GRIMSEL installation

3.3. Upgrading FURKA

3.3.1. Unpacking the Software

Change the directory to your Downloads folder e.g.:

```
cd /home/det/Downloads/
```

or to wherever you saved the software.

Unpack the FURKA tgz-file using the following command:

```
tar –xvzf FURKA-x86_64-<version>.tgz
```



Important: Parts of FURKA have to be installed on the detector server as well. You can either repeat the download and unpacking procedure of FURKA on the detector server or copy the rpms directly to the detector server using an USB drive or secure copy (scp).

3.3.2. FURKA Installation on the PPU

For the PPU you'll need to install the FURKA PPU Client and the FURKA PPU rsync package.

Become root (su) and enter the following command:

```
yum install furka-ppu-client-<version>.rpm furka-ppu-rsync-
<version>.rpm
```

Accept all default values (square brackets next to the prompt) by pressing Enter.

3.3.3. FURKA Installation on the Detector Server

For the PPU you'll need to install the FURKA PPU Server and the FURKA PPU rsync rpm-package.

Become root (su) and enter the following command:

```
yum install furka-ppu-server-<version>.rpm furka-ppu-rsync-
<version>.rpm
```

Accept all default values (square brackets next to the prompt) by pressing Enter.

3.3.4. Reusing the License Key

If you were using FURKA version 3.6 or before you can reuse the old license key by performing the following command (PPU only):

```
sudo cp /etc/furka_dectris.key /var/lib/furka/license.key
```



This step is critical. Ignoring this step will cause performance issues.

3.3.5. Restarting FURKA

To restart FURKA enter the following command on the PPU:

```
service furka restart
```

To check the status of FURKA enter the following command on the PPU:

```
service furka status
```

3.3.6. Log, Config and License Files

You may want to check or modify the log, config or license files (PPU only). For FURKA version 3.7.x these files can be found as follows.

The log file can be found on the PPU at:

```
/var/log/furka_dectris.log
```

The config file can be found on the PPU at:

```
/etc/furka_dectris.conf
```



If you upgraded form version 3.6 or older a backup of the old config file was created and can be found on the PPU at:
/etc/furka_dectris.conf.rpmsave
If you updated from version 3.7.x the config file was not touched by the installer and remains the same.

The license file can be found on the PPU at:

```
/var/lib/furka/license.key
```

3.4. Upgrading GRIMSEL

3.4.1. Unpacking the Software

Change the directory to your Downloads folder e.g.:

```
cd /home/det/Downloads/
```

or to wherever you save the software.

Unpack the GRIMSEL tgz-file using the following command:

```
tar -xvzf GRIMSEL-x86_64-<version>.tgz
```



GRIMSEL is only installed on the PPU.

3.4.2. GRIMSEL Installation

Become root (su) and enter the following command:

```
yum install grimsel-<version>.rpm
```

Accept all default values (square brackets next to the prompt) by pressing Enter.

3.4.3. Reusing the License Key

If you were using GRIMSEL version 3.6 or before you can reuse the old license key by performing the following command:

```
sudo cp /etc/grimsel_dectris.key /var/lib/grimsel/license.key
```



This step is critical. Ignoring this step will cause performance issues.

3.4.4. Restarting GRIMSEL

To restart GRIMSEL enter the following command:

```
service grimsel restart
```

To check the status of GRIMSEL enter the following command:

```
service grimsel status
```

3.4.5. Log, Config and License Files

You may want to check or modify the log, config or license files on the PPU. For GRIMSEL version 3.7.x these files can be found as follows.

The log file can be found at:

```
/var/log/grimsel_dectris.log
```

The config file can be found at:

```
/etc/grimsel_dectris.conf
```



If you upgraded form version 3.6 or older a backup of the old config file was created and can be found at:
`/etc/grimsel_dectris.conf.rpmsave`
If you updated from version 3.7.x the config file was not touched by the installer and remains the same.

The license file can be found at:

```
/var/lib/grimsel/license.key
```

3.5. Verify FURKA and GRIMSEL Installation

To check the installed version of FURKA and GRIMSEL enter the following command on the PPU.

For FURKA

```
/usr/local/dectris/bin/furka_dectris --version
```

Example of the shell output:

```
FURKA version 3.7.1
Copyright 2012 Dectris Ltd.
```

For GRIMSEL

```
/usr/local/dectris/bin/grimsel_dectris --version
```

Example of the shell output:

```
GRIMSEL version 3.7.1
Copyright 2012 Dectris Ltd.
```