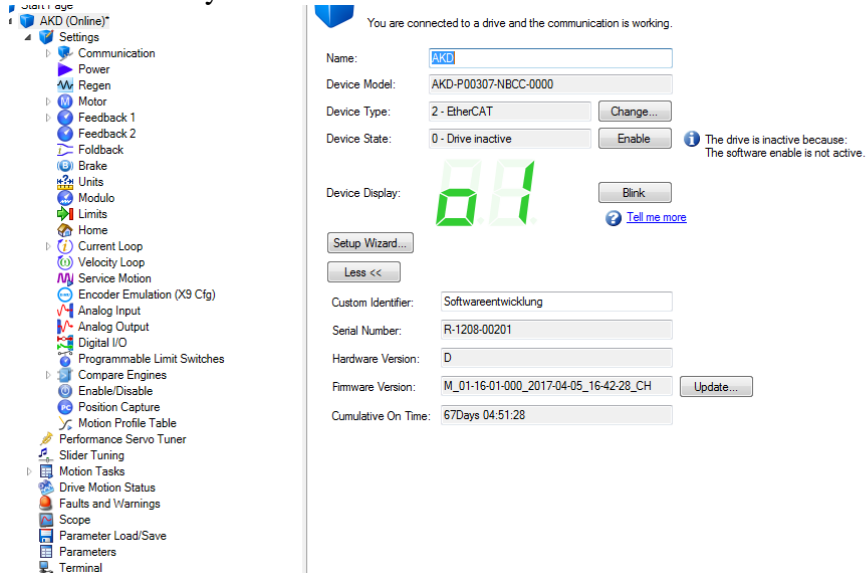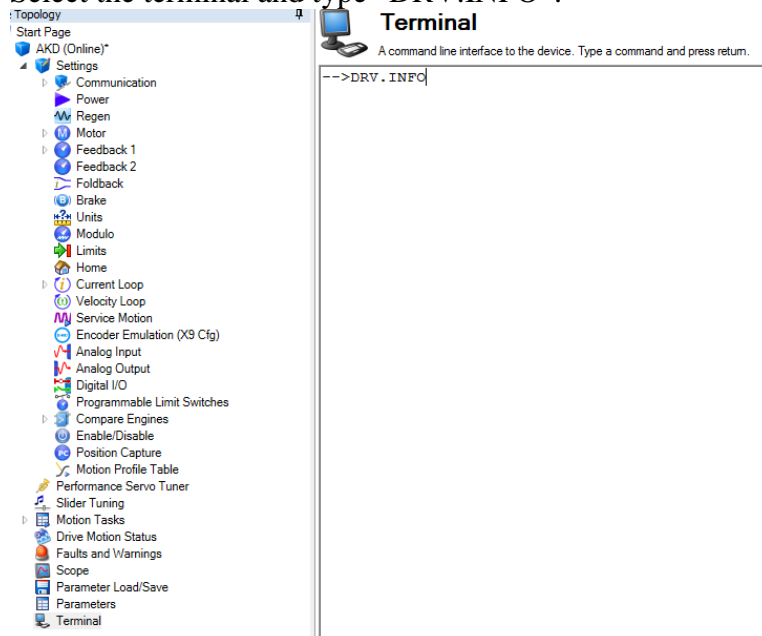4/11/2017

Instruction to update the backup FPGA on AKD

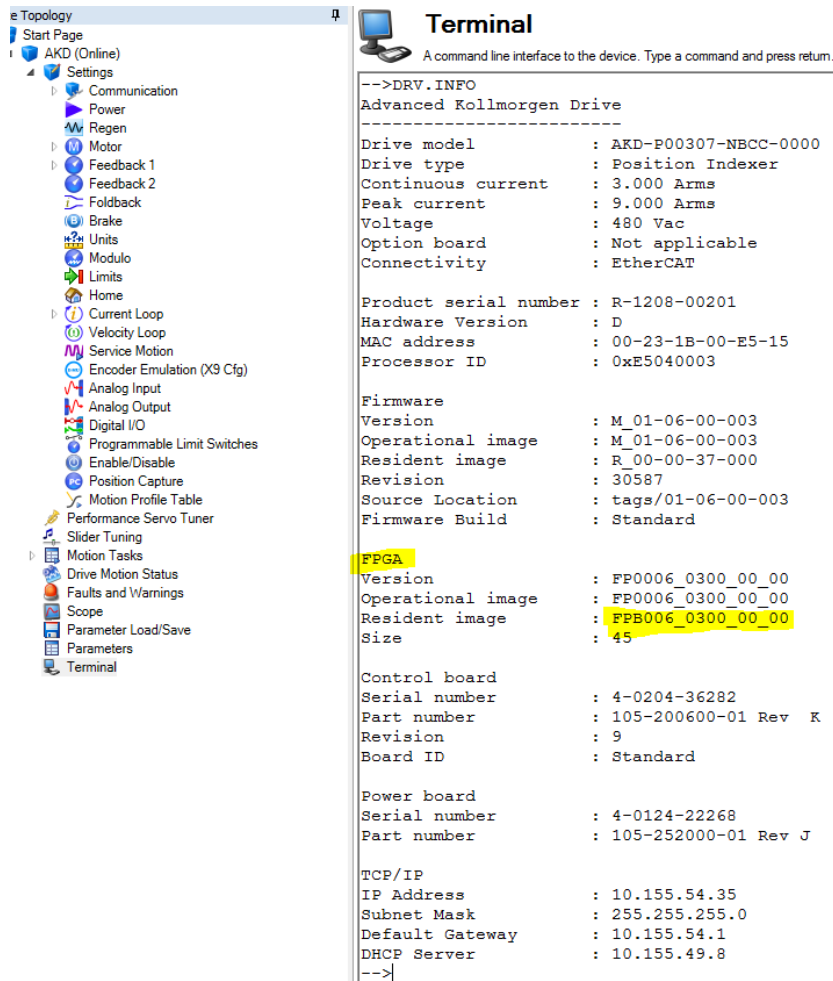Steps:

1. Connect to your drive with workbench

2. Select the terminal and type "DRV.INFO":

3. Execute command:

```
-->DRV.INFO
Advanced Kollmorgen Drive
-----------------------
Drive model            : AKD-P00307-NBCC-0000
Drive type             : Position Indexer
Continuous current     : 3.000 Arms
Peak current           : 9.000 Arms
Voltage                : 480 Vac
Option board           : Not applicable
Connectivity           : EtherCAT

Product serial number  : R-1208-00201
Hardware Version       : D
MAC address            : 00-23-1B-00-E5-15
Processor ID           : 0xE5040003

Firmware
Version                : M_01-06-00-003
Operational image      : M_01-06-00-003
Resident image         : R_00-00-37-000
Revision               : 30587
Source Location        : tags/01-06-00-003
Firmware Build         : Standard

FPGA
Version                : FP0006_0300_00_00
Operational image      : FP0006_0300_00_00
Resident image         : FPB006_0300_00_00
Size                   : 45

Control board
Serial number          : 4-0204-36282
Part number            : 105-200600-01 Rev  K
Revision               : 9
Board ID               : Standard

Power board
Serial number          : 4-0124-22268
Part number            : 105-252000-01 Rev J

TCP/IP
IP Address             : 10.155.54.35
Subnet Mask            : 255.255.255.0
Default Gateway        : 10.155.54.1
DHCP Server            : 10.155.49.8
-->
```

In this example the backup FPGA version can be identfied by looking for the "FPGA" section and "Resident image" alias backup FPGA.

The coding for the backup FPGA version is as follows: "FPB0**xx_yyyy_yy_yy**", where "**x**" represents a certain FPGA type and "**y**" represents the version number. The upper number represents the most significant version number.

All versions lower than "0602_00_01" are affected.

In this example the version is "0300_00_00" , which is a backup FPGA version with the brake issue.

4. Now go to the main window and click on update.

5. Choose the correct backup FPGA to download, which matches your drive type.

Workbench filters the correct type matching your drive type.

In this example the drive type is **AKD-P**-00307-**NBCC**-0000, where the bold characters need to match the file name. Workbench filters the correct file to be AKD-P-NBCC-V0602-00-01-R-FPGA.i00.

Click open.

6. Wait until workbench has finished the download procedure:

7. Verify that the upgrade of the backup FPGA was successful by repeating step 2 and 3. Check the version to be FPB0xx_0602_00_01:

```
FPGA
Version            : FP0006_0300_00_00
Operational image  : FP0006_0300_00_00
Resident image     : FPB006_0602_00_01
Size               : 45
```

If the version matches, the brake issue in the backup FPGA is resolved.