Update Instructions for ASC Gen 4

Contents

[General Information 2](#_Toc82692694)

[Controller Update with Update Package 3](#_Toc82692695)

[Update InScript Firmware 6](#_Toc82692696)

[Update Controller FPGA 8](#_Toc82692697)

[Update Scanhead FPGA 10](#_Toc82692698)

# General Information

We recommend to update with complete Controller Update Package, which is described in the chapter “Controller Update with Update Package”.

It is also possible to update the parts of the system – like InScript Firmware, Controller FPGA and Scanhead FPGA.

# Controller Update with Update Package

1. Download the correct file from the download area.
Note: Which kind of ASC you have please find in the ASC Gen4 manual in chapter 3.

- **ASC1 Update Package.zip**
 This is the update package for ASC1
- **ASC2\_No\_WFI\_Update\_Package.zip**
 This is the update package for ASC2 without WFI
- **ASC2\_WFI\_Update\_Package.zip**
 This is the update package for ASC2 with WFI
- **ASC6\_WFI\_Update\_Package.zip**
 This is the update package for ASC6 with WFI
2. Unpack the controller specific ZIP-File. It contains
- InScript 3.1.0
- Firmware 3.1.0
- Buildroot
- FPGA-Update (In this example it is the ASC1 Update Package)

3. Install InScript\_3\_1\_0.exe on your PC
4. Start InScript 3.1.0
5. In InScript add the Controller you want to update by clicking the  symbol and enter the IP address of the controller

6. Right click on the controller in the Navigator in InScript and choose **Controllerservices…**
7. After the dialog has opened choose the tab **Update**

8. Click the **…**-button and choose the directory, where all your update files are located (the directory, the ZIP-File was extracted to)
9. After choosing the directory, click the **Update**-button.
10. The procedure needs about **20 to 30 minutes** to finish. After the procedure finishes you can save the protocol.
11. **Please notice**, that it is normal, that messages appear in the “Errors”-section
12. Please **power-cycle** the ASC to apply the changes

# Update InScript Firmware

1. Download the correct firmware-file from the Download area “Firmwarepackages” (fw-3.1.0.1518.swu, as of today 22.09.2021)
2. Start InScript 3.1.0
3. In InScript add the Controller you want to update by clicking the  symbol and enter the IP address of the controller

4. Right click on the controller in the Navigator in InScript and choose **Controllerservices…**
5. Switch to the tab **Software** and click the **…**-button and choose the directory, where your firmwarefile is located

6. After choosing the directory, click the **Install Firmware**-button.

7. The procedure needs about a few minutes to finish.

8. **Please notice**, that it is normal, that messages, that look like errors appear in the output field. As long as ‘**SWUPDATE successful’** message will appear everything is fine.

# Update Controller FPGA

1. Download the correct file from the download area.
Note: Which kind of ASC you have please find in the ASC Gen4 manual in chapter 3.

- **ASC1\_DI\_LSH\_48V\_Scanhead\_FPGA\_Update**
 This is the update package for ASC1
- **ASC2\_DI\_LSH\_48V\_Scanhead\_FPGA\_Update**
 This is the update package for ASC2 without WFI
- **ASC2\_DI\_LSH\_OCT\_48V\_Scanhead\_FPGA\_Update**
 This is the update package for ASC2 with WFI
- **ASC6\_Microlution\_48V\_Scanhead\_FPGA\_Update**
 This is the update package for ASC6 with WFI
2. Start InScript 3.1.0
3. In InScript add the Controller you want to update by clicking the  symbol and enter the IP address of the controller

4. Right click on the controller in the Navigator in InScript and choose **Controllerservices…**
5. Switch to the tab **Software** and click the **…**-button and choose the directory, where your Scanhead FPGA file is located

6. After choosing the directory, click the **Install Firmware**-button.

7. The procedure needs a few minutes to finish.
8. **Please notice**, that it is normal, that messages, that look like errors appear in the output field. As long as ‘**SWUPDATE successful’** message will appear everything is fine.
9. Please **power-cycle** the ASC to apply the changes

# Update Scanhead FPGA

1. Download the update package for your scanhead from the download area “Scanhead FPGA” (ARG\_DG\_BB\_Update21012705.swu)
2. Start InScript 3.1.0
3. In InScript add the Controller you want to update by clicking the  symbol and enter the IP address of the controller

4. Right click on the controller in the Navigator in InScript and choose **Controllerservices…**
5. Switch to the tab **Software** and click the **…**-button and choose the directory, where your Scanhead FPGA file is located

6. After choosing the directory, click the **Install Firmware**-button.

7. The procedure needs a few minutes to finish.
8. **Please notice**, that it is normal, that messages, that look like errors appear in the output field. As long as ‘**SWUPDATE successful’** message will appear everything is fine.
9. Please **power-cycle** the ASC to apply the changes