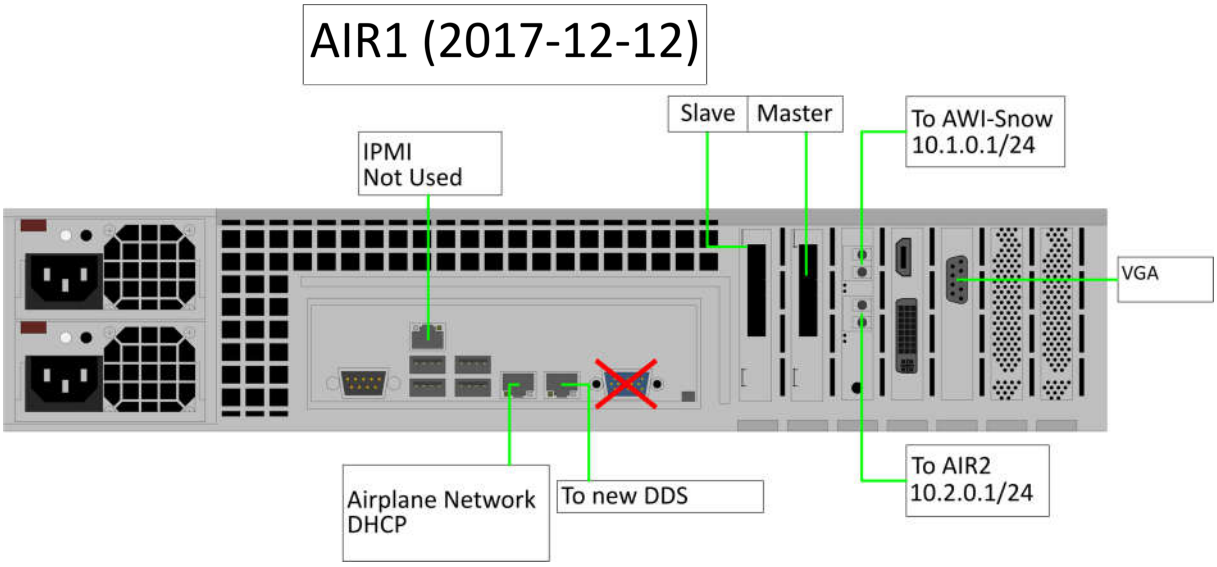
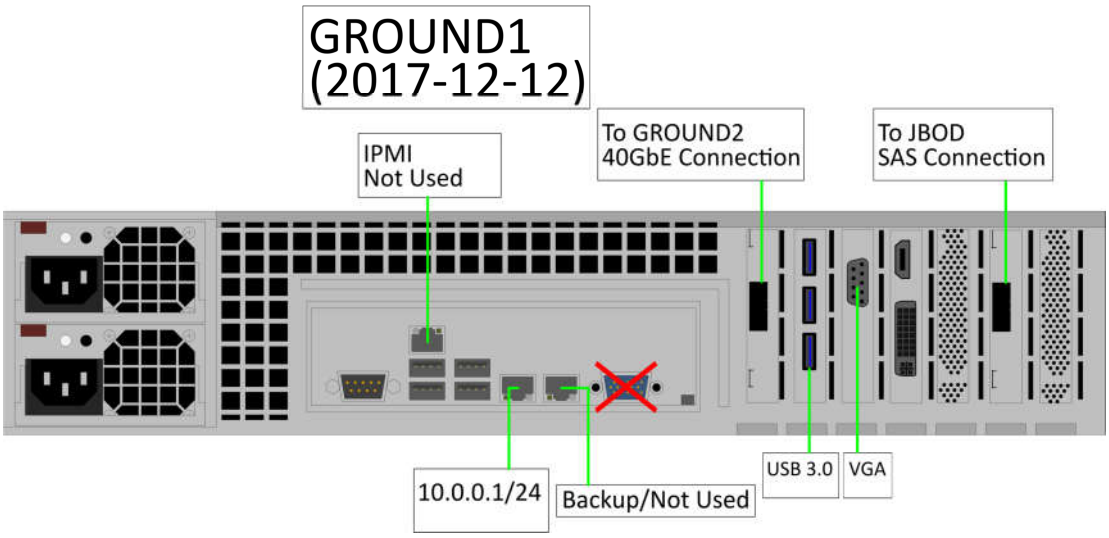
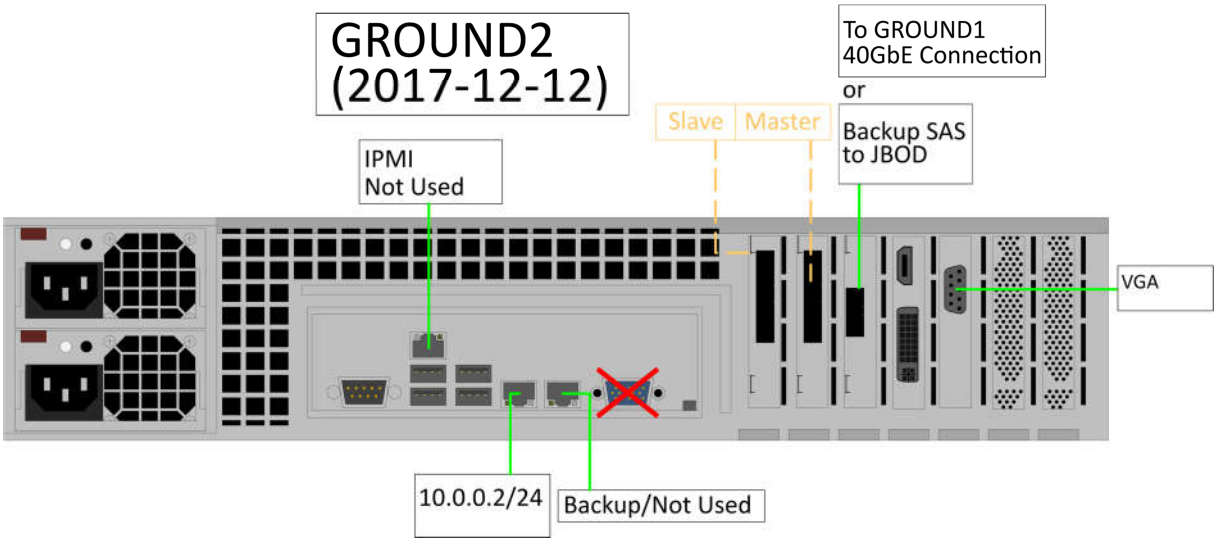
Overview of PCIe cards plugged into the servers







Overview of server spare parts

Recommendation for campaigns:

USB 3.0 PCIe card (FLT7369)
HIS ATI Radeon HD5450 Silence graphics card (FLT7370)
PCIe SAS adapter for JBOD (FLT7354)

SFP+ module adapter (FLT6282)

24Pin 1200W 1U Server Power Supply (FLT5865)
24Pin 1400W 1U Server Power Supply (FLT5866)

2x Mellanox Passive Copper Cable (FLT6301, FLT6491) – 1x used, 1x spare
2x 6Gb SAS Cable (FLT6302, FLT6492) – 1x used, 1x spare

In Bremen/Bremerhaven:

PCIe SAS adapter for JBOD (FLT7368)

LSI MegaRAID SAS 9271-8i Controller Card (FLT5858)
10Gbps PCIe Ethernet Server Adapter X520-SR2 (FLT7355)
ConnectX - 3 FDR InfiniBand + 40GigE (FLT5857)

24Pin 1200W 1U Server Power Supply (FLT5864)

6Gb SAS Cable (FLT6303)

2x Supermicro 0126L4 2U Hot Swap Fan (FLT7501, FLT7502)

Overview of licenses

Matlab:

1095981 -> ground1 (Torque-Server unter CentOS)
Matlab Compiler, Mapping Toolbox, Optimization Toolbox, Parallel Computing Toolbox, Signal Processing Toolbox

#1095982 -> glazsrv1.dmawi.de (Windows-Server auf Ebene 2A)
Mapping Toolbox, Optimization Toolbox, Parallel Computing Toolbox, Signal Processing Toolbox

#1095983 -> ground2 (Windows) + ground2 (Backup für air1)
Mapping Toolbox, Optimization Toolbox, Parallel Computing Toolbox, Signal Processing Toolbox

#1095984 -> air2 (Server im UWBM-Rack)
Mapping Toolbox, Signal Processing Toolbox

#1095985 -> air1 (Server im UWB-Rack)
Mapping Toolbox, Signal Processing Toolbox

LabView:

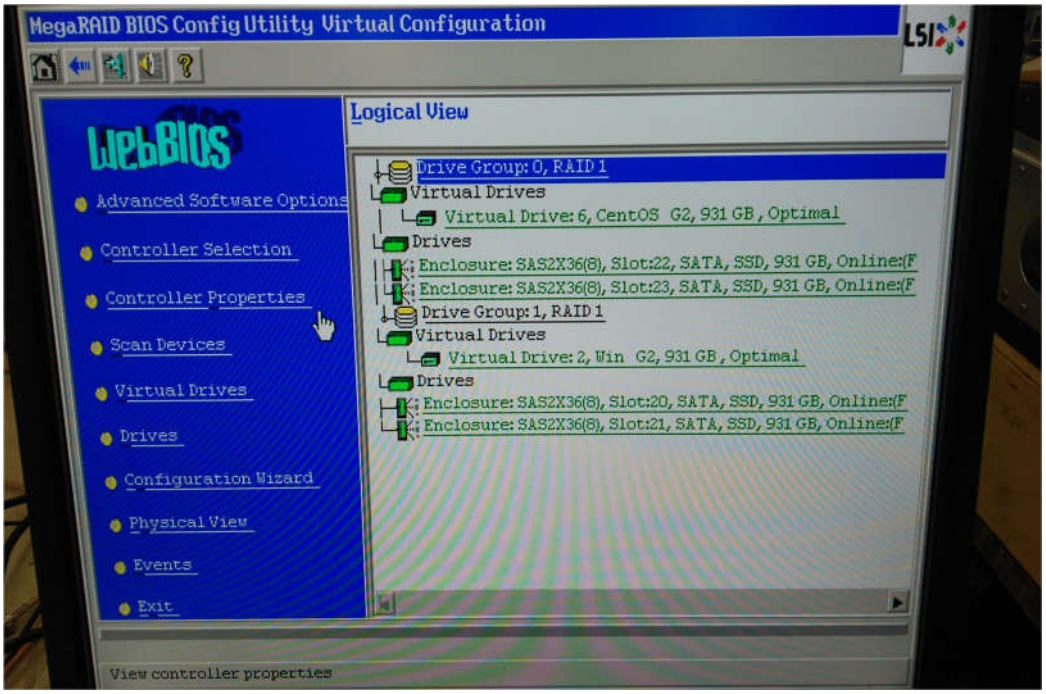
Lizenz “AIR1” -> air2 (Server im UWBM-Rack)

Lizenz “AIR2” -> air1 (Server im UWB-Rack)

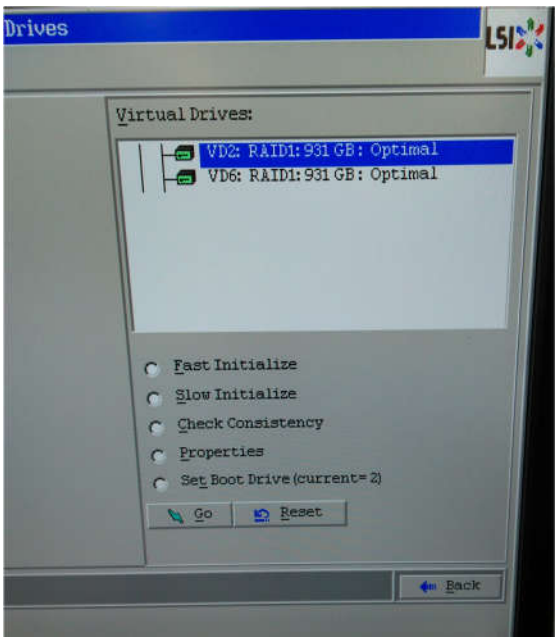
MegaRAID BIOS Configuration Utility

If several bootable drives are present, it might be necessary to set the “Boot Drive” using the MegaRAID WebBIOS interface. During the booting process (when a list of virtual drives is shown), press Ctrl + H.

Inside the WebBIOS, select “Virtual Drives”.



Select the virtual drive you want to boot from and mark the last point (“Set Boot Drive”).

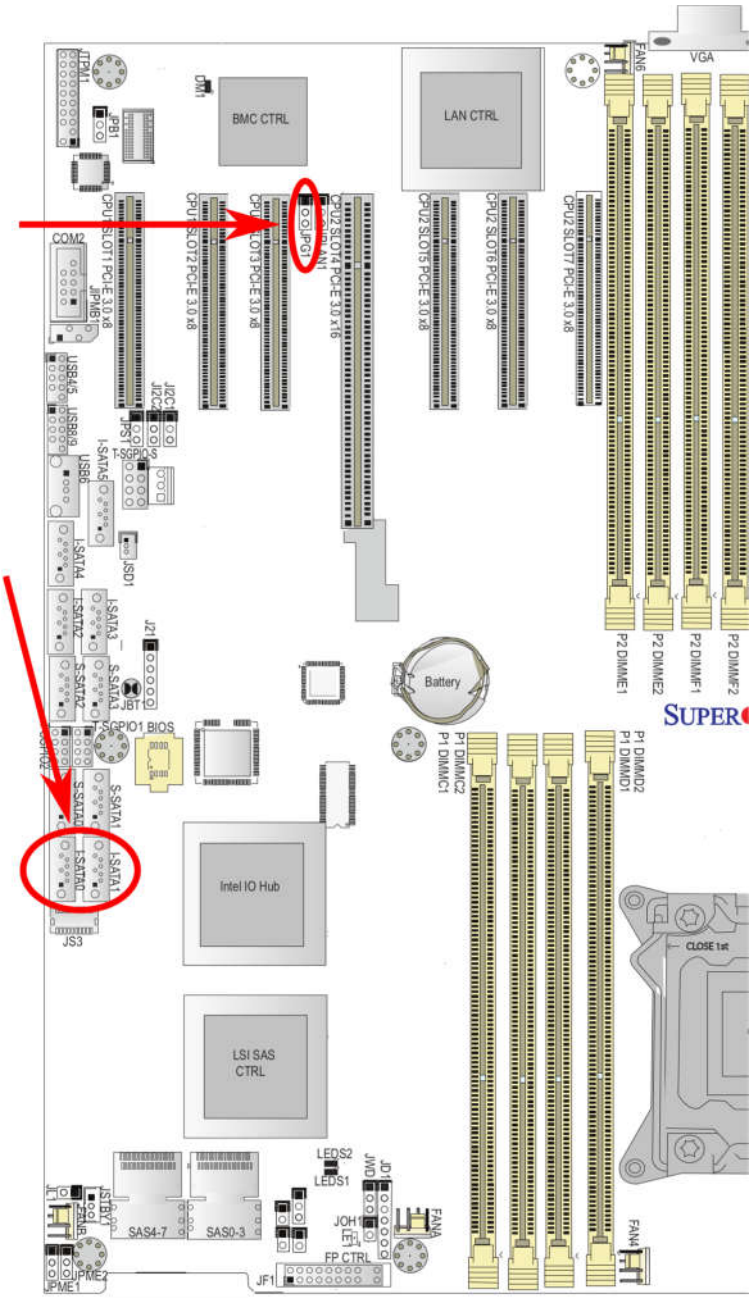


Known problems

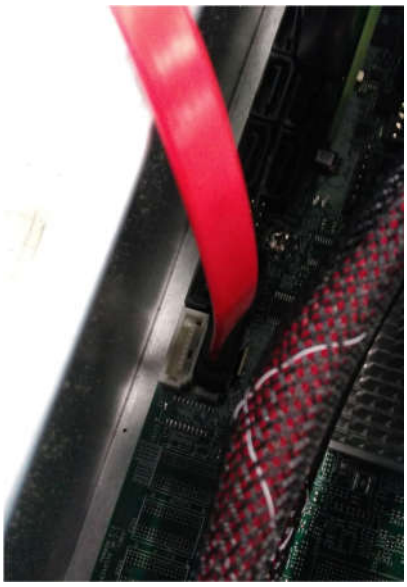
If the onboard VGA connector doesn't work, use PCIe graphics. If necessary, disable onboard VGA manually using the Jumper JPG1 on the mainboard.

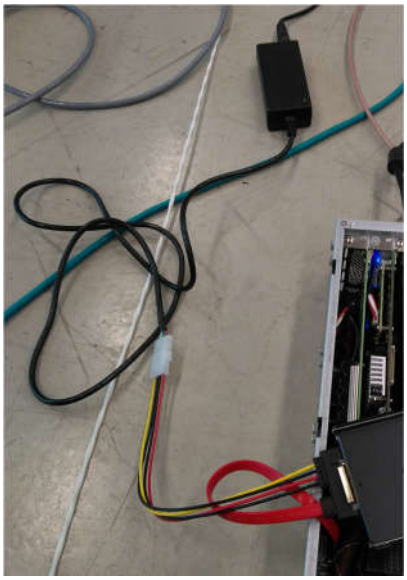
The RAID controller doesn't pass the TRIM command from the operating system to the SSDs. Therefore, problems occur if a new virtual drive/partition is created without manual deletion. For manual deletion, connect the SSDs individually to the SATA3 ports on the mainboard and launch Samsung Magician Software (version 4.9.7). A new volume has to be created.

Jumper JPG1 allows the user to en-/disable the onboard VGA connector.
Jumper Setting 1-2 -> Enabled
Jumper Setting 2-3 -> Disabled



SATA3 ports (I-SATA0~1)





Further information

For more details about the motherboard, see manual X9DRH.pdf.
For more details about the chassis, see manual SC216.pdf.