

## How to use the external ESATA hard drive crate with the RAID function:

### I: remove hard drives and break the RAID

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- 1) Turn the ESATA-Controller-Box **off**
- 2) Remove the full hard drives from slots A and B (or C and D)
- 3) Insert the new pair of hard drives in slots C and D (or A and B)
- 4) Turn the ESATA-Controller-Box back **on**
- 5) Double-click on the icon "Launch SI4726UI" to launch external hard drive manager (the new hard drives should appear – if not, give it a minute)
- 6) Press CTRL+C (or go to "Edit, configure")
- 7) Password: "admin"
- 8) Go to "advanced mode"
- 9) Press CTRL+L (or go to "Edit, advanced config., delete all volumes")
- 10) Choose "Yes" on the next window that pops up

### II: Create a new RAID

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- 1) Press CTRL+V (or go to "Edit Advanced Config, Create Volume")
- 2) Select "Safe (Raid 1)" in the left window
- 3) Select "Use" for the new hard drives C and D = Disk 2 and 3 (or A and B)
- 4) Press "update volume" on the bottom of the window
- 5) Answer "No" on the window popping up ("would you like to specify a hot spare?")
- 6) Press "apply" on the bottom of the window (it takes a moment to process the information)

### In case the new hard drives do not appear in the windows explorer window follow step III

### III: Format hard drives

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- 1) Double-click on the icon "computer management" (it can be found on the desktop)
- 2) Select "disk management" on the left side of the window
- 3) Press "cancel" on the window popping up
- 4) Search the new disk by scrolling down on the right side of the window (it should be marked with a black bar on top to signal that it is unallocated)
- 5) ??? Perhaps the disk needs to be initialized (click right mouse button on "disk" and choose "initialize") ???
- 6) Use the right mouse button on the field with the black bar on top of it and select "new partition"
- 7) A new window pops up: Click "Next"
- 8) A new window pops up: Select the option "primary partition"
- 9) click on next
- 10) A new window (about size) pops up: No action is needed, so please click on "next"
- 11) A new window pops up (about the drive letter): No action is needed, so please click on "next"
- 12) A new window pops up: select "format this partition with the following settings"
- 13) Choose:
  - "File system" = "NTFS"
  - "Allocation unit size" = "default"
  - "Volume label" = chose an appropriate name (like "ALS\_Month\_Year\_Number")
  - "Perform a quick format"
- 14) Select next
- 15) A new window pops up: Select "finish" (it takes a moment and you are hopefully done and you can see the hard drives in the windows explorer and start taking data)

## **PLAN B (using 2 already partitioned and formatted hard drive sets prepared as RAID pairs)**

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- 1) Turn the ESATA-Controller-Box (Crate) **off**
- 2) Remove all 4 hard drives
- 3) Insert the new 4 hard drives
- 4) Turn the ESATA-Controller-Box (Crate) **on**
- 5) Double-click on the Icon "Launch SI4726UI" to launch the external hard drive manager (the new hard drives should appear – if not, give it a minute)
- 6) For each of the 4 hard drives a window may pop up: "New hard disks detected. Do you want to mount the new hard drives?" Answer "No" for all hard disks (each window)
- 7) Press CTRL+C (or go to "Edit, configure")
- 8) Password: admin
- 9) Go to "advanced mode"
- 10) Press CTRL+L (or go to "Edit, advanced config, delete all volumes")
- 11) Confirm with "Yes" on the next window that pops up
- 12) Press CTRL+V (or go to "Edit Advanced Config, Create Volume")
- 13) Select "Safe (Raid 1)" in the left window
- 14) Select "Use" for the new hard drives on the bottom (A and B = Disk 0 and 1)
- 15) Press "update volume" on the very bottom of the window
- 16) A new window pops up (asking "would you like to specify a hot spare?"): Press "No"
- 17) Repeat the steps 12-16 for the other pair of drives and select hard disks C and D in step 14 (Disk 2 and 3)
- 18) In the end press "apply" on the very bottom of the window (it will take a moment to process the information)