# Instructions for Installing the SAFARI Montage<sup>®</sup> SuperSet XXXVI Content Drive

## **CONTENTS:**

SAFARI Montage SuperSet XXXVI Content Drive(s) •

#### PLEASE READ THESE INSTRUCTIONS IN THEIR ENTIRETY BEFORE YOU BEGIN:

- SuperSet XXXVI requires SAFARI Montage version 6.5.28 or later. If you are currently running a version prior to 6.5.28, you will need to upgrade your server before installing your new content drives.
- Please contact Technical Support if you have any questions regarding the current status of your SAFARI Montage server, to schedule an upgrade, or to review any questions you may have before installing your new content drives.
- SAFARI Montage Technical Support is available Monday Friday from 8 a.m. to 6 p.m. Eastern Time, and they may be contacted by telephone at 800-782-7230 or online via http://www.safarimontage.com/support.

### **UPGRADE INSTRUCTIONS:**

- 1. Shut down the SAFARI Montage server:
  - a. If performing the server shut down from the **web interface**:
    - i. Navigate to ADMIN > Tools > Reboot and Shut Down.
    - ii. Click on the Shut Down button
    - iii. Click **Shut Down** again to verify that you wish to shut down the server.
  - b. If performing the server shut down from the **console**:
    - i. Select option **#3 Advanced**, followed by option **#7 Shut Down**.
- Remove all prior SuperSet content drives from the server. Do NOT remove CreationStation drives. 2.
- 3. Drive configuration requirement vary depending on your server model. Identify your server model and follow the appropriate instructions below.
  - a. Dell-manufactured servers: If installing content drive(s) in one of the following models, please proceed to page 5 to complete additional drive configuration steps, before returning here to continue at step 4.

٠

•

T-420 • •

٠

•

•

- RM-440X T-440X • RM-640
- T-86X
  - RM-640X
- WAN-1210X
  - RM-126X
    - RM-128X •
- WAN-1216X WAN-1212X WAN-1220X • \*WAN-1220

WAN-880X

WAN-1240

\* The WAN-1220 is not a Dell manufactured server, but the Mega-RAID BIOS interface has been updated to resemble and function similarly to Dell's Virtual Disk Management.



- b. **WAN-1212:** If installing content drive(s) in a WAN-1212, please proceed to **page 6** to complete additional drive configuration steps, before returning here to continue at step 4.
- c. If installing in any other model server:
  - i. Insert the received SuperSet XXXVI Content Drive(s) into the next available open bay(s) of the server. Make certain that each drive sled latch clicks into place, ensuring proper drive seating.

**Note:** If installing this drive into a **RM-820** or **WAN-840**, the drive must be installed in bay 1, 2, 3 or 4 as shown below:

| Bay 4          | Bay 5 | Bay 6 | Bay 7 |
|----------------|-------|-------|-------|
| Bay 0/OS Drive | Bay 1 | Bay 2 | Bay 3 |

- ii. Power on the server.
- 4. Login to SAFARI Montage and activate new packages by navigating to **ADMIN > Content & Modules > Activate All**.

Note:

- New package licensing has been pre-entered and is ready to activate when the new content drive has been installed.
- For customers upgrading from SuperSet 34 and 35 proceed to step 7.
- 5. For customers using the SAFARI Montage WAN Manager Module, proceed as follows; otherwise, skip to Step 6.
  - Assign new packages, mirroring assignments for retiring packages by navigating to ADMIN > WAN Manager > Schools. A package map of new and retiring packages is included for reference on the following page.
  - b. Un-assign retiring packages from all schools by navigating to **ADMIN > WAN Manager > Schools** and adjusting assignments.
- 6. Deactivate retiring packages by navigating to **ADMIN > Content & Modules > Content Packages** and clicking Deactivate for each retired package.
- 7. Finally, remap Playlists and Lessons to the new package content by navigating to **ADMIN > Tools > System Volumes** and clicking the **Map Playlist and Lesson Items** link.

~ THIS COMPLETES THE DRIVE INSTALLATION PROCESS~



#### PACKAGE MAP

#### Notes:

- Older 300k, 800k, and **Spanish** packages may be deactivated for all new packages below as Spanish titles are included in new packages.
- Each package listed below refers to all formats and bitrates for the noted package.

| New Packages, Which Will Activate Upon<br>"Activate All"      |   | Replaces These Package(s), Which Are to Be<br>Unassigned & Deactivated   |
|---|---|--|
| G112908x – Core K-8 Content Package                           | > | All prior versions of Core K-8 Content Packages, Reading<br>Rainbow Content Packages, Eyes on the Prize Content<br>Packages  |
| G198006x - K-8 Super Core                                     | > | All prior versions of Core K-8, K-8 Super Core, Reading<br>Rainbow, Eyes on the Prize and K-6 Supplemental, whose<br>new name is K-8 Expansion.  |
| G198105x – K-8 Expansion                                      | > | All prior versions of <b>K-6 Supplemental</b><br>All prior versions of <b>K-8 Expansion</b>  |
| G113307x - Core 9-12 Content Package                          | > | All prior versions of 9-12 Core Content Packages and Eyes on the Prize Content Packages  |
| G129808x - 9-12 Super Core Content Package                    | > | All prior versions of <b>9-12 Super Core Content Packages, Eyes</b><br>on the Prize Content Packages<br>All versions of G1121 - Additional SM 9-12<br>G1298S02MN - 9-12 Super Core Content Package (Spanish)   |
| G129408x – 9-12 Expansion Content Package                     | > | All prior versions of <b>9-12 Expansion</b><br>All versions of G1121 - <b>Additional SM 9-12</b>   |
| G112508x - Core K-12 Content Package                          | > | All prior versions of Core K-12 Content Packages, Rainbow<br>Content Packages and Eyes on the Prize Content Packages   |
| G131808x - K-12 Super Core Content Package                    | > | All prior versions of Core K-12 Content Packages, K-12 Super<br>Core Content, Reading Rainbow Content Packages and Eyes<br>on the Prize Content Packages<br>All versions of G1121 - Additional SM 9-12<br>G1311S02MN K-12 Super Core Content Package (Spanish) |
| G126405xx - Cyber-Science Interactive 3D Model Package (2014) | > | All prior versions of <b>Cyber-Science Interactive 3D</b><br><b>Model Package</b><br><b>Note:</b> Remap prior package titles using Admin > Tools ><br>System Volumes > Map Playlist and Lesson Items to Cyber-<br>Science 2014 Package                         |
| G974310x - American Schools Overseas K-8                      | > | All prior versions of American Schools Overseas K-8  |
| G974710x - American Schools Overseas 9-12                     | > | All prior versions of American Schools Overseas 9-12   |
| G975610x - American Schools Overseas K-12                     | > | All prior versions of American Schools Overseas K-12   |
| G122502 – Visual Dictionary Interactive Image Package (2014)  | > | Prior version of <b>Visual Dictionary Interactive</b><br><b>Note:</b> All prior version references will be mapped to Visual<br>Dictionary 2014 references  |



# Package Map Continued:

| G1302MN – Career Clips Content Package (300k)<br>G1302P01HT – Careor Clips Content Package (HTTP 200k)         | > | All prior versions Career Clips Content Packages                                    |
|--|---|---|
| G1302B01HT – Career Clips Content Package (HTTP-300k)<br>G999202N – National Archives Digital Resources (2015) | > | All prior versions of <b>Digital Resources from the</b><br>National Archives        |
| G200903N – TED-Ed Web Links Content Package (2016)   | > | All prior versions of TED-Ed Web Links  |
| G198702N – Teaching Channel Web Links Content Package (2016)   | > | All prior versions of Teaching Channel Web Links                                    |
| G999402N – Khan Academy Web Links Content Package (2016)   | > | All prior versions of Khan Academy Web Links  |
| G200602N – Scholastic Channel Web Links Content Package (2016)   | > | All prior versions of Scholastic Channel Web Links                                  |
| G999502N – FEMA Digital Resources Content Package (2016)   | > | All prior versions of FEMA Digital Resources  |
| G118303N – The World Factbook Content Package (2017)   | > | All prior versions of The World Factbook  |
| G964002xx – NOAA Digital Resources Content Package (2016)  | > | All prior versions of NOAA Digital Resources  |
| G198801N – The Gilder Lehrman Institute of American History Web<br>Links (2017)                                | > | All prior versions of The Gilder Lehrman Institute of<br>American History Web Links |



For the following servers, Virtual Disk Management will need to be configured:

| • | T-420   | • | RM-440X   | • | WAN-880X  |
|---|---------|---|-----------|---|-----------|
| • | T-440X  | • | RM-640    | • | WAN-1240  |
| • | T-86X   | • | RM-640X   | • | WAN-1210X |
| • | RM-126X | • | WAN-1216X | • | WAN-1212X |
| • | RM-128X | • | WAN-1220X | • | *WAN-1220 |

To do so, perform the following on system boot:

- 1. Insert all new content drive(s) into the next available open bay(s) of the server. Make certain that each drive sled latch clicks into place, ensuring proper drive seating.
- 2. Power on the server.
- 3. When prompted, press **<CTRL>+<R>** to access Virtual Disk Management. If prompted, press **<C>** and/or **<Y>** when accessing Virtual Disk Management.
- 4. Use the arrow keys and navigate the Virtual Disk Management screen and select the **PERC controller** (top node).
- 5. Press **<F2>** to open the properties sub-menu and choose **"Foreign Config**" and press **<Enter>**.
  - a. If **"Foreign Config"** is un-selectable and **"Unconfigured Physical Disks"** appear in Virtual Disk Management, continue to step 8
- 6. Select **Clear** from the Foreign Config sub-menu.
- 7. Use the arrow keys to select "Yes" and press <Enter>.
- a. "Unconfigured Physical Disks" will appear in Virtual Disk Management
- 8. Use the arrow keys and navigate the Virtual Disk Management screen and select the **PERC controller** (top node).
- 9. Press the **<F2>** to open the properties sub-menu and choose **"Create New VD"**.
- 10. Using the **<Tab>** key, navigate to the **"Physical Disk"** list and select the first disk in the list (use the spacebar to select).
- 11. Using the **<Tab>** key, navigate to **"OK"** and press **<Enter>**.
- 12. Use the arrow keys to select "Yes" and press <Enter> when prompted about skipping initialization.a. New VD will appear in Virtual Disk Management.
- 13. Repeat steps 6 through 10 for all remaining **"Unconfigured Physical Disks"**. When all unconfigured disks have been added as Virtual Disks, continue to step 12.
- 14. Press **<ESC>** key and select **"OK"** to exit Virtual Disk Management.
- 15. Press **<CTRL +ALT+DEL>** to reboot the server.
- 16. Return to step 4 on page 2.

\* The WAN-1220 is not a Dell manufactured server, but the Mega-RAID BIOS interface has been updated to resemble and function similarly to Dell's Virtual Disk Management.



For the WAN-1212 server, the MegaRAID BIOS will need to be configured. To do so, perform the following on system boot prior to installing any new drives:

- 1. Access the LSI MegaRAID SAS controller BIOS by pressing **<Ctrl>+<H>** when prompted during boot up.
- 2. Click the **Start** button to access MegaRAID BIOS Config Utility.

| A dama dama Nia | Bus No. | Destand    |                          | Firmware Version |
|-----------------|---------|------------|--------------------------|------------------|
| Adapter No.     | Bus no. | Device No. | Туре                     |                  |
| D. 🔘            | 9       | 0          | LSI MegaRAID SAS 9260-41 | 2.70.03-0862     |

3. Insert a single new content drive into the next available open bay of the server. Make certain that each drive sled latch clicks into place, ensuring proper drive seating.

Wait approximately 30 seconds and then click the **Scan Devices** link from Navigation to access to the Foreign Configuration page.

**Note:** If you have more than one new drive you will repeat steps 3 through 15 for each drive.





4. When prompted, click on the **Clear** button to clear the foreign configuration of the drive. Then click **Yes** to confirm and return to the Logical View.

| MegaRAID BIOS Config Utility Foreign Configur | ation              | LSIS         | NegaRAID BIOS Config Utility Confirm Page                            | L512 |
|---|--------------------|--------------|--|------|
| 1 Foreign Config(s) Found. Want to Import?    |                    |              |  |      |
| Select Configuration                          | All Configurations | V            |  |      |
|   | <u>Preview</u>     | Clear Cancel | Previous foreign configuration will be lost. Do you want to proceed? |      |

5. Click **Configuration Wizard** link from Navigation to access the Configuration Wizard.

| MegaRAID BIOS Config Utility | Virtual Configuration   | LSI |
|------------------------------|---|-----|
|                              |   |     |
| LIEPBIOS                     | Logical View  |     |
| Controller Selection         | Image: Comparison of the second state of th | X   |
| Controller Properties        | L Drives<br>L Enclosure: 80H10323501A0(4), Slot:0, SATA, SSD, 185-781   |     |
| 💩 S <u>can Devices</u>       | Drive Group: 1, RAID O<br>Les Virtual Drives  |     |
| • Virtual Drives             | Leg Virtual Drive: 2, 931 GB, Optimal   |     |
| 👲 D <u>rives</u>             | Enclosure: 80H10323501A0(4), Slot:5, SATA, HDD, 931 GB,   |     |
| Configuration Wizard         | Le Virtual Drives   |     |
| 👌 Physical View              | L Drives  |     |
| <u>Events</u>                | L Drive Group: 3, RAID 0<br>Virtual Drives  | 2   |
| 🔮 <u>Exit</u>                | Virtua Drive: 4, 2.728 TB, Optimal  | •   |
|                              |   |     |
|                              |   |     |
|                              |   |     |
|                              |   |     |



6. Select Add Configuration and click Next to continue.

| MegaRAID BIOS Config Utilit  | y Configuration Wizard  | LSI  |
|------------------------------|---|------|
|                              | es you through the steps for configuring the MegaRAID<br>htly. The steps are as follows:  |      |
| 1. Drive Group definitions   | Group drives into Drive Groups.   |      |
| 2. Virtual Drive definitions | s Define virtual drives using those drive groups.   |      |
| 3. Configuration Preview     | Preview configuration before it is saved.   |      |
| Please choose appropriate o  | configuration type:   |      |
| Clear Configuration          | Allows you to clear existing configuration only.  |      |
| O New Configuration          | Clears the existing configuration. If you have any existing<br>in the earlier defined drives, the data will be lost.                                  | data |
| ₢ <u>A</u> dd Configuration  | Retains the old configuration and then adds new drives to a<br>configuration. This is the safest operation<br>as it does not result in any data loss. | :he  |
|                              | ß   |      |
|                              | 🗙 Cancel 🛶  | Next |
|                              |   |      |
|                              |   |      |
|                              |   |      |

7. Select Manual Configuration under the Configuration Method and click Next to continue.

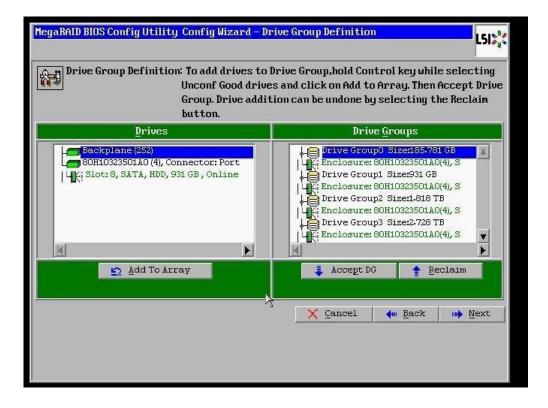
| Mega | RAID BIOS Config Utility | Configuration Wizard    |                   |                         | L512%      |
|------|--------------------------|-------------------------|-------------------|-------------------------|------------|
| Sele | ect Configuration Method | :                       |                   |                         |            |
| •    | Manual Configuration     |                         |                   |                         |            |
|      | Manually create drive o  | groups and virtual driv | res and set their | parameters a            | s desired. |
| C    | Automatic Configuratio   | n                       |                   |                         |            |
| 3355 | Automatically create t   | he most efficient confi | guration.         |                         |            |
|      | <u>R</u> edundancy:      | Redundancy when pos     | ssible            | V                       |            |
|      |                          |                         | 🗙 Cancel          | <b>∢</b> ⊪ <u>B</u> ack | Mext       |
|      |                          |                         |                   |                         |            |
|      |                          |                         |                   |                         |            |
|      |                          |                         |                   |                         |            |
|      |                          | 6                       |                   |                         |            |
|      |                          |                         |                   |                         |            |
|      |                          |                         |                   |                         |            |
|      |                          |                         |                   |                         |            |
| 3    |                          |                         |                   |                         |            |



8. Select the newly installed hard drive from the **Drives** list and click the **Add To Array** button.



9. Click on the Accept DG button, to accept the Drive Group from under the Drive Groups and click Next to continue.





10. Select the hard drive from the **Array With Free Space** drop down and click the **Add to SPAN** button. The hard drive should move to the **Span** window. Click **Next** to continue.

| MegaRAID BIOS Config Utilit | ty Config Wizard – S | pan Definition   |                  | ty Config Wizard – Sj | pan Definition   |
|-----------------------------|----------------------|--|------------------|-----------------------|--|
| Span Definition:            | drop-down.Click a    | to a Span, select an array hole from the<br>m Add To Span. Array hole will be added to the<br>ddition can be undone by selecting the | Span Definition: | drop-down.Click o     | to a Span, select an array hole from the<br>m Add To Span. Array hole will be added to the<br>ddition can be undone by selecting the |
| Array With Free             | e Space              | Span   | Array ₩ith Fre   | e Space               | <u>S</u> pan   |
| Drive Groups4,Holes0,R5,    |                      |  |                  | ×                     | Drive Groups4,RS,1-819 TB  |
| Add to S                    | 5PAN                 | reclaim  | 🖸 Add to         | SPAN                  | And  |
|                             | ¢                    | ζ X Cancel 4m Back m→ Mext   |                  | ۶                     | K Cancel (n Back n Next  |

11. Click on the **Update Size** button.

| MegaRAID BIOS Co     | nfigUtility ConfigWizard | -Virtual Drive Definition                             | LSIX |
|----------------------|--------------------------|---|------|
| RAID Level           | RAIDO V                  | <u>V</u> irtual Drives                                |      |
| <u>S</u> trip Size   | 256 KB                   | ↓ Drive Group 0<br>↓ Drive Group 0<br>↓ Drive Group 0 |      |
| Access Policy        | RW                       |   |      |
| Read <u>P</u> olicy  | Ahead y                  |   |      |
| <u>⊎</u> rite Policy | Write Through            |   |      |
| I <u>O</u> Policy    | Direct 💌                 |   |      |
| Drive Cache          | NoChange 🔻               | Next LD, Possible RAID Levels<br>R0:931 GB            |      |
| Disable B <u>G</u> I | No                       |   |      |
| Select Size          | GB 🔻                     | Update Size   |      |
|                      | 🖡 Accept                 | Reclaim   |      |
|                      |                          | 🗙 Cancel 🚺 Back 👐 N                                   | [ext |
|                      |                          |   |      |
|                      |                          |   |      |



12. Click on the **Accept** button to save the drive configuration. Click on the **Yes** button when prompted regarding use of **Write Through mode**. Click on **Next** to continue.

| MegaRAID BIOS Co    | onfig Utility Config Wizard – I | Virtual Drive Definition                     | MegaRAID BIDS Config Utility Confirm Page   | LSIX |
|---------------------|---------------------------------|--|---|------|
| RAID Level          | RAID 5                          | <u>V</u> irtual Drives                       | Write Through mode eliminates risk of losing cached data in case of power failure |      |
| <u>S</u> trip Size  | 64 KB                           | VD 0<br>Drive Group 1                        | But it may result in slower performance.  |      |
| Access Policy       | RW                              | Drive Group 2                                | Are you sure you want to select Write Through mode?                               |      |
| Read Policy         | Adaptive                        | Drive Group 3                                |   |      |
| <u>Write Policy</u> | Write Through                   | Drive Group 4                                |   |      |
| IQ Policy           | Direct 🔻                        |  |   |      |
| Drive Cache         | NoChange 💌                      | Next LD, Possible RAID Levels<br>R5:1-819 TB |   |      |
| Disable BGI         | No                              |  |   |      |
| Select Size         | 1.819 TB ¥                      |  | X.  |      |
|                     | 🚺 Accept                        | A 🖸 Reclaim                                  | À   |      |
|                     |                                 | Cancel 🗰 Back 🖬 Mext                         |   |      |
|                     |                                 |  |   |      |
|                     |                                 |  |   |      |

13. Click **Accept** to save the virtual drive configuration and then click **Yes** to confirm.

| MegaRAID BIOS Config Utility Config Wizard - Pr   | evieu   | MegaRAID BIOS Config Utility Confirm Page | LSI\$ <mark>%</mark> |
|---|---|---|----------------------|
| this configur   | <u>V</u> irtual Drives  | Save this Configuration ?                 |                      |
| Backpiene (65)       S0H10323501A0 (4), Connector: P       S10ct10, SATA, S5D, 185.781 GB,       S10ct10, SATA, HDD, 1818 TB, On       S10ct2, SATA, HDD, 1818 TB, On       S10ct2, SATA, HDD, 1818 TB, On       S10ct3, SATA, HDD, 1818 TB, On | Prive Group 0 For VD 0 For VD 0 Prive Group 1 For VD 2 Drive Group 2 For VD 3 | No Yes                                    |                      |
| K Slot: 4, SATA, HDD, J&HB TB, On   | Drive Group 3   |   |                      |
| 3   | X Cancel de Back  | ß   |                      |
|   |   |   |                      |



14. Click **Cancel** when asked to enable SSD caching.

| AID BIOS Config Utility  | Manage SSD Caching                            | LSI  |
|--------------------------|---|------|
| It is possible to enable | SSD caching on the following new virtual driv | 7es. |
| ⊻irtual Drive:           |   |      |
| Virtual Drive            | SSD Caching                                   |      |
|                          |   |      |
|                          |   |      |
|                          |   |      |
|                          |   |      |
|                          |   |      |
|                          |   |      |
|                          |   |      |
|                          |   |      |
|                          |   |      |
| □ Å <sup>11</sup>        |   |      |
|                          | Enable Cancel                                 |      |
|                          |   |      |
|                          |   |      |
|                          |   |      |
|                          |   |      |
|                          |   |      |
| 21                       |   |      |
|                          |   |      |

15. Click **No** when asked to initialize the virtual drive.

| MegaRAID BIOS Config Utility Confirm Page                            | LSIX |
|--|------|
| All data on the new Virtual Drives will be lost. Want to Initialize? |      |

Note: If installing multiple drives return to step 3 now and repeat for each new drive.



16. When all new content drives have been configured, click the **Exit** link in the left-hand navigation and then **Yes** to confirm.

|                  |                  | LSI |
|------------------|------------------|-----|
| Exit Application | No Yes           |     |
|                  | Exit Application |     |

17. Press **<CTRL>+<ALT>+<DELETE>** to restart the server.

| Reset Page |                           | L51% |
|------------|---------------------------|------|
|            | Please Reboot your System |      |

18. Return to step 4 on page 2.

