Instructions for Installing the SAFARI Montage[®] SuperSet XXXII Supplemental Drive

OVERVIEW

The SAFARI Montage SuperSet XXXII Supplemental drive you have just received works in conjunction with earlier release SuperSet content drive(s) to provide new content to your SAFARI Montage server.

CONTENTS

• SAFARI Montage SuperSet XXXII Supplemental Content Drive

PREREQUISITES:

- SAFARI Montage 6.2.20
- Any combination, high or low resolution, of the following previously released SuperSets:
 - SuperSet XX
 - SuperSet XXI
 - SuperSet XXII
 - SuperSet XXIII
 - SuperSet XXIV
 - SuperSet XXV
 - SuperSet XXVI
 - SuperSet XXVII
 - SuperSet XXX
 - SuperSet XXXI
- Available drive bay

PLEASE READ THESE INSTRUCTIONS IN THEIR ENTIRETY BEFORE YOU BEGIN:

- Review any questions with Technical Support in advance. Please note that 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.
- The SAFARI Montage SuperSet XXVII Supplemental drive is to be permanently installed in tandem with currently installed SuperSet content drives. Currently installed drives must remain in the server for the supplemental drive to function properly.
- Removal of the supplemental drive is required when replacing the primary content drive(s).

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**.
- 2. 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 4 to complete additional drive configuration steps, before returning here to continue at step 4.
 - T-420 •
 - T-440X
 - T-86X
- RM-440X • RM-640
- RM-640X

•

- RM-126X
- RM-128X •

- WAN-880X
- WAN-1240
- WAN-1212X
- WAN-1216X
- b. WAN-1212: If installing content drive(s) in a WAN-1212, please proceed to page 5 to complete additional drive configuration steps, before returning here to continue at step 4.
- c. If installing in any other model server:

Insert the received SuperSet XXXII Supplemental Content Drive(s) into the next available open i. 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	Ba y 6	Bay 7
Bay 0 / OS Drive	Bay 1	Bay 2	Bay 3

- Power on the server. ii.
- 4. Log in to the SAFARI Montage web interface with Administrator privileges.
- 5. Navigate to ADMIN -> Tools -> System Volumes.
- 6. Click on the Manage Supplemental Drives link at the top of the page.

SAFARI								SEARCH	
MONTAGE Default	Administrator log out	DASHBOARD	SEARCH	SUBJECTS	STANDARDS	PLAYLISTS	MODULES	PREFERENCES ADMIN	HEL
ontent & Modules	Map Volumes Clear Counts Clear Order	Managan Suppl	amantal Drive	Man Diavler	lame				
ata Recovery	map volumes (clear counts (clear cruer	tinanaye outpa	emernal prive		(NOTING				
eporting			Volu			Syster	n Volumes (la	cal)	
ettings	da1.bde		Volu	ime					
ools									
Allow Remote Access	da2.bde								
VPC UPS Monitor	da3.bde								
Bandwidth (live)	da4.bde								
Bandwidth Restrictor									
lookmark Thumbnail Check									
Configurable Options									
Connections SMB (live)									
Connections TCP (live)									
Content Packages Statistics									
Content Updates Queue									
08 Cache									
Disk Space Info (live)									
faintenance									
Ning									
Reboot and Shut Down									
ierver Boot Times									
ierver Load (live)									
erver Load Averages (live)									
ervice Logs (live)									
ioftware Update History									
ipace Available									
ystem DB Restore									
Avstern Volumes									
Fraceroute									

7. Link the supplemental drive to the installed content drive(s) by clicking on the Link action. When linking is complete, click Return to Supplemental Drive Management to verify the link status and link an additional drive.



Note: One supplemental drive can be linked to only one high resolution content drive and one low resolution content drive. If multiple content drives exist, multiple supplemental drives can be installed and linked.

	Manage Supplemental Content Drives				Manage Supplemental Content Drives		
One Supplemental Drive can be linked to	to a maximum of one High Resolution content drive and one Low/Medium	Resolution content drive.		Linking drives /mnt/da2.bde /mnt/da4.bde			
Supplemental Drive	Volume	Status	Actions	Return to Supplemental Drive Management			
CONT ATTO Developmental Control Dates (Institute Ender)	MontageSuperSeDXIV_2TB (/mntida2.bde)	Not Linked	Link				
SS25 1TB Supplemental Content Drive (Imnt/da4.bde)	MontageSuperSeDOOV_2TB_HIRES (/mntida3.bde)	Not Linked	Link				
Unlinke	d Supplemental Dr	rives		Supple	emental Drive Link	ing	
	d Supplemental Dr Manage Supplemental Context Drives	rives			Manage Supplemental Content Drives	5	
Complete		rives		One Supplemental Drive can be linked	Manage Supplemental Content Drives o a maximum of one High Resolution content drive and one Low/Medium	Resolution content drive.	
Complete		rives			Manage Supplemental Content Drives a a maximum of one High Resolution content drive and one Low/Medium Volume	Resolution content drive. Status	
		rives		One Supplemental Drive can be linked	Manage Supplemental Content Drives o a maximum of one High Resolution content drive and one Low/Medium	Resolution content drive.	Action Unlink

Supplemental Drive Link Complete

Supplemental Drives Linked

8. After supplemental drive linking is complete, activate all new packages – ADMIN > Content & Modules > Activate ALL.

Note: New package licensing has been pre-entered and is ready to activate.

For customers using the **SAFARI Montage WAN Manager** module, continue with **Steps 9 and 10**; else skip to **Step 11**.

- Assign new packages, mirroring assignments for retiring packages ADMIN > WAN Manager > Schools. A Package map of new and retiring packages is on page 3.
- 10. Un-assign retiring packages from all schools **ADMIN** > **WAN Manager** > **Schools**.
- 11. Deactivate retiring packages ADMIN > Content & Modules > Content Packages.
- 12. Remap Playlists and Lessons by navigating to ADMIN > Tools > System Volumes and clicking on the Map Playlist and Lesson Items link.

~ This completes the drive installation ~



Notes:

- 300K **Spanish** packages may be deactivated for all 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 "Activate All"		Replaces These Package(s), Which Are to Be Unassigned & Deactivated
G112907xx – Core K-8 Content Package (2015)	>	All prior versions of Core K-8 Content Packages, Reading Rainbow Content Packages, Eyes on the Prize Content Packages
G198005xx – K-8 Super Core (2015)	>	All prior versions of Core K-8 , K-8 Super Core , Reading Rainbow , Eyes on the Prize and K-6 Supplemental , whose new name is K-8 Expansion .
G198104xx – K-8 Expansion (2015)	>	All prior versions of K-6 Supplemental All prior versions of K-8 Expansion
G113306xx - Core 9-12 Content Package (2015)	>	All prior versions of 9-12 Core Content Packages and Eyes on the Prize Content Packages
G129807xx - 9-12 Super Core Content Package (2015)	>	All prior versions of 9-12 Super Core Content Packages, Eyes on the Prize Content Packages All versions of G1121 - Additional SM 9-12 G1298S02MN - 9-12 Super Core Content Package (Spanish)
G129407xx – 9-12 Expansion (2015)	>	All prior versions of 9-12 Expansion All versions of G1121 - Additional SM 9-12
G112507xx - Core K-12 Content Package (2015)	>	All prior versions of Core K-12 Content Packages, Rainbow Content Packages and Eyes on the Prize Content Packages
G131807xx - K-12 Super Core Content Package (2015)	>	All prior versions of Core K-12 Content Packages, K-12 Super Core Content, Reading Rainbow Content Packages and Eyes on the Prize Content Packages All versions of G1121 - Additional SM 9-12 G1311S02MN K-12 Super Core Content Package (Spanish)
G126405xx - Cyber-Science Interactive 3D Model Package (2014)	>	All prior versions of Cyber-Science Interactive 3D Model Package Note: Remap prior package titles using Admin > Tools > System Volumes > Map Playlist and Lesson Items to Cyber-Science 2014 Package
G974309xx - American Schools Overseas K-8 (2015)	>	All prior versions of American Schools Overseas K-8
G974709xx - American Schools Overseas 9-12 (2015)	>	All prior versions of American Schools Overseas 9-12
G975609xx - American Schools Overseas K-12 (2015)	>	All prior versions of American Schools Overseas K-12
G980409xx - Canadian K-9 Content Package (2015)	>	All prior versions of Canadian K-9 Content Package
G981209xx - Canadian 9-12 Content Package (2015)	>	All prior versions of Canadian 9-12 Content Package
G980809xx - Canadian K-12 Content Package (2015)	>	All prior versions of Canadian K-12 Content Package
G122502 – Visual Dictionary Interactive Image Package (2014)	>	Prior version of Visual Dictionary Interactive Note: All prior version references will be mapped to Visual Dictionary 2014 references
G1302MN – Career Clips Content Package (300k)	>	All prior versions Career Clips Content Packages
G999202N – National Archives Digital Resources (2015)	>	All prior versions of Digital Resources from the National Archives
G200902N – TED-Ed Web Links (2015)	>	All prior versions of TED-Ed Web Links



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

- T-420
 - T-440X
- T-86X
- RM-640 RM-640X

RM-440X

- RM-126X
- RM-128X

- WAN-880X
- WAN-1240
- WAN-1212X
- WAN-1216X

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**".
 - a. If "Foreign Config" is un-selectable and "Unconfigured Physical Disks" appear in Virtual Disk Management, continue to step 6
- 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.



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:

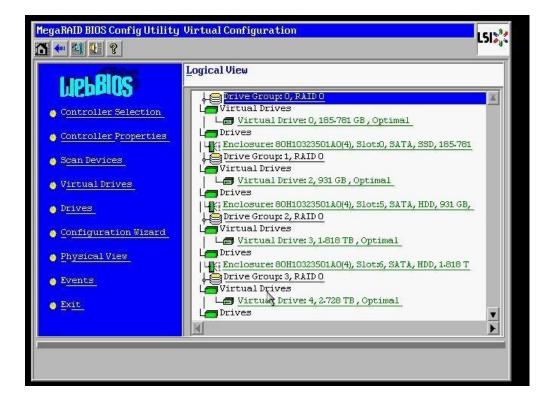
- 1. Access the LSI MegaRAID SAS controller BIOS by pressing **<Ctrl>+<H>** when prompted during boot up.
- 2. Click the Start button to access MegaRAID BIOS Config Utility.

Adapter No.	Bus No.	Device No.	Туре	Firmware Version
). 🕥	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 Configura	ation		L51\$,*	NegaRAID BIOS Config Utility Confire Page	L512
1 Foreign Config(s) Found. Want to Import ?					
Select Configuration	All Configurations	V			
	Preview	Clear	Cancel	Previous foreign configuration will be lost. Do you want to proceed?	
	2				

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





6. Select Add Configuration and click Next to continue.

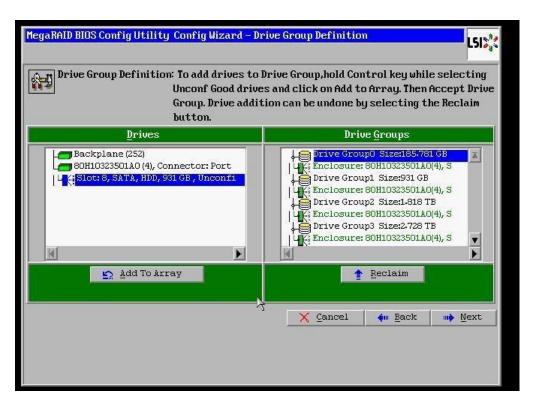
MegaRAID BIOS Config Utilit	y Configuration Wizard		LSIX
	es you through the steps for configuring t tly. The steps are as follows:	he MegaRAID	
1. Drive Group definitions	Group drives into Drive Groups.		
2. Virtual Drive definitions	Define virtual drives using those drive grou	1ps.	
3. Configuration Preview	Preview configuration before it is saved.		
Please choose appropriate o	onfiguration type:		
C Clear Configuration	Allows you to clear existing configuration of	only.	
C New Configuration	Clears the existing configuration. If you ha in the earlier defined drives, the data will b		lata
⊙ Add Configuration	Retains the old configuration and then adds configuration. This is the safest operation as it does not result in any data loss.	s new drives to th	1e
	8		
	X	Cancel 🛛 🛶 🕅	[ext

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

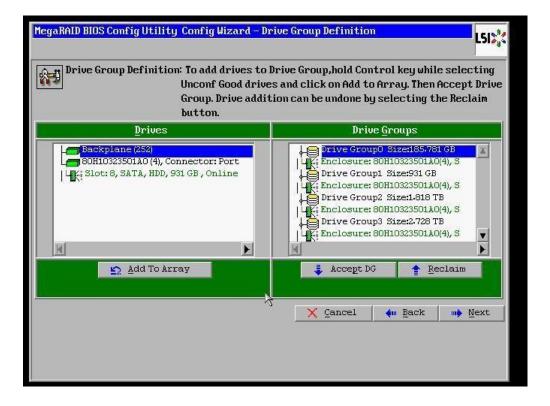
Megal	RAID BIOS Config Utility	Configuration Wizard			니키않
Sele	ct Configuration Method	:			
•	Manual Configuration				
	Manually create drive o	groups and virtual driv	ves and set their	parameters	as desired.
0	Automatic Configuratio	n			
	Automatically create t	he most efficient confi	guration.		
	Redundancy:	Redundancy when po	ssible	V	
			X Cancel	<u>B</u> ack	Mext
		Ą			



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 Utility	y Config Wizard – Sp	an Definition		ig Utility Config Wizard – S	pan Definition
Span Definition:	spanArray Hole addition can be undone by selecting the Reclain button.		Span Definiti		to a Span, select an array hole from the on Add To Span. Array hole will be added to the ddition can be undone by selecting the
Array With Free	Space	<u>S</u> pan	Array Wi	ith Free Space	Span
Drive Groups4, Holes0, R5, 14	819 TB			¥	Drive Groupst,RS5,1-919-TB
Add to SF	PAN	Teclaim		Add to SPAN	reclaim
	Ą	X Cancel 40 Back 00 Next		٥	χ Cancel (nn Back nn) Next

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

MegaRAID BIOS Co	mfigUtility ConfigWizard	- Virtual Drive Definition
RAID Level	RAIDO V	<u>V</u> irtual Drives
<u>S</u> trip Size	256 KB	Drive Group 0 Far VD 0
Access Policy	RW	
Read Policy	Ahead y	
<u>Write Policy</u>	Write Through	
I <u>O</u> Policy	Direct 💌	
<u>D</u> rive Cache	NoChange 💌	Next LD, Possible RAID Levels R0:931 GB
Disable B <u>G</u> I	No	
Select Size	GB 💌	Update Size
	🖡 Accept	Reclaim
		Cancel du Back Dext



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	mfig Utility Config Wizard -	Virtual Drive Definition	MegaRAID BIOS Config Utility Confirm Page
RAID Level Strip Size Access Policy Read Policy Write Policy IQ Policy Drive Cache Disable BGI	FAID 5 64 KB KW Adaptive Write Through Direct Nochange	Uirtual Drives Drive Group 1 Drive Group 1 Drive Group 2 Drive Group 2 Drive Group 3 Drive Group 4 VD 1 Next LD, Possible RAID Levels R51.619 TB	Write Through mode eliminates risk of losing cached data in case of power failure. But it may result in slower performance. Are you sure you want to select Write Through mode? <u>No</u> <u>Yes</u>
Select Size	1.619 TB 🖉	Eeclaim <u>X</u> Cancel (m Back m) Next	Ż

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

MegaRAID BIOS Config Utility Config Wizard - Pre	uieu LSIS _a t	MegaRAID BIOS Config Utility Confirm Page	LSIX
Encipient Encipient Solidio2501A0 (4), Connector P Encipient	Urtual Drives	Save this Configuration ?	
<pre>X Slot: 3, SATA, HDD, 1-818 TB, On</pre>	Drive Group 3 Drive Group 3 Drive Group 4 Drive Group 4 WD 1		
7	X Cancel	7	



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

gaRAID BIOS Config Utility	Manage SSD Caching	LSI
It is possible to enable Virtual Drive:	SSD caching on the following new virtual dri	ves.
Virtual Drive	SSD Caching	
□ ≜ ¹¹		
	Enable Cancel	
	<u></u>	
incel		

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

MegaRAID BIOS Config Utility Confirm Page	
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.

Exit Confirmation		LSIS
	Exit Application No Yes	

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

Reset Page		L512%
	Please Reboot your System	

18. Return to step 4 on page 2.

