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

OVERVIEW

The SAFARI Montage SuperSet XXXIII 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 XXXIII Supplemental Content Drive

PREREQUISITES:

- SAFARI Montage 6.2.20
- Any combination, high or low resolution, of the following previously released SuperSets:
 - o SuperSet XX
 - o SuperSet XXI
 - o SuperSet XXII
 - SuperSet XXIII
 - SuperSet XXIV
 - o SuperSet XXV
 - o SuperSet XXVI
 - o SuperSet XXVII
 - o SuperSet XXX
 - SuperSet XXXI
 - SuperSet XXXII
- 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 <u>http://www.safarimontage.com/support</u>.
- The SAFARI Montage SuperSet XXVIII 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 5 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 XXXIII 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

- ii. Power on the server.
- 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 MONTAGE	Administrator log sut							SEARCH
MONTAGE, SAM		DASHEGARD	SEARCH	SUBJECTS	STANDARDS	PLAYLISTS	MODULES	
Content & Modules	Map Volumes Clear Counts Clear Order	Manage Suppl	emental Onve	Map Playtes	Terms			
Data Recovery		-		/			n Volumes (lo	
Reporting			Volu			Syster	n volumes (lo	cal)
Settings	da1.bde							
Tools	da2 bde							
Allow Remote Access								
APC UPS Munitor	da3.bde							
Bandwidth (live)	da4.bde							
Bandwidth Restrictor								
Bookmark Thumbnail Check								
Configurable Options								
Connections SMB (ilve)								
Connections TCP (live)								
Content Packages Statistics								
Content Updates Queue								
08 Cache								
Dick Space Info (live)								
Haindenance								
Ping								
Reboot and Shut Down								
Server Boot Times								
Server Load (live)								
Server Load Averages (live)								
Service Logs (live)								
Software Update History								
Space Available								
System DB Restore								
System Volumes								
Traceroute								

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.

Maxage 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.		Lawling draves /mm0/da2.tole /mm1/da4.tole			
Supplemental Drive	Volume Status Actions		Return to Supplemental Drive Management				
	MontageSuperSetXXIV_2TB (/mnt/da2.bds) Not Linked Link						
9525 1TB Supplemental Content Drive (mnt/da4.bde)	MontageSuperSet000V_278_HRES (Inntida3.bde) Not Linked Link						
Unlinke	d Supplemental Dr	rives		Supple	emental Drive Linki	ing	
Unlinke	d Supplemental Dr Narage Supplemental Context Drives	rives		Supple	emental Drive Linki Maage Supplemental Context Drives	ing	
		rives				5	
Complete		rives			Manage Supplemental Content Drives	5	Activ
Unlinke Compases Richars to Disciplemental Drive Management		rives		One Supplemental Drive can be linked to	Manage Supplemental Content Drives to a maximum of one High Resolution content drive and one Low Medium	Resolution content drive	Actio

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 ~



ΡΑСКАGE ΜΑΡ

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		Replaces These Package(s), Which Are to Be
"Activate All"		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

Package Map Continued:



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
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 (2016)	>	All prior versions of The World Factbook



Dell Manufactured Servers

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

• T-420

T-440X

T-86X

- •
- - RM-640X

RM-440X

RM-640

- 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 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.



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:

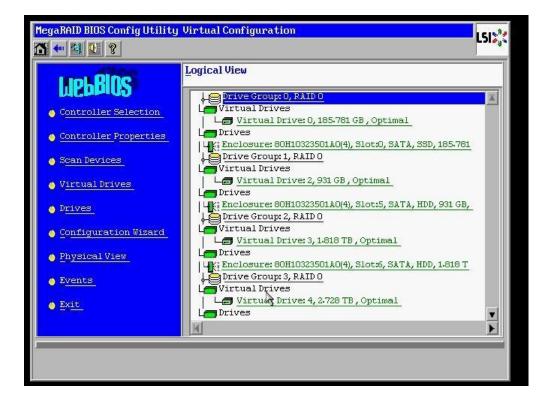
- 1. Access the LSI MegaRAID SAS controller BIOS by pressing **<Ctrl>+<H>** when prompted during boot up.
- 2. Click the **Start** button to access MegaRAID BIOS Config Utility.

Adapter No.	Bus No.	Device No.	Туре	Firmware Version
). 🕑	9	0	LSI MegaRAID SAS 9260-4i	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.

eign configuration will be lost. Do you want to proceed?

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





6. Select Add Configuration and click Next to continue.

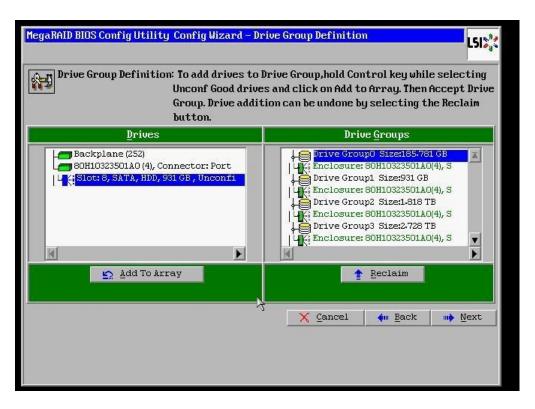
MegaRAID BIOS Config Utilit	y Configuration Wizard	.51💸
	es you through the steps for configuring the MegaRAID tly. The steps are as follows:	
1. Drive Group definitions	Group drives into Drive Groups.	
2. Virtual Drive definitions	Define virtual drives using those drive groups.	
3. Configuration Preview	Preview configuration before it is saved.	
Please choose appropriate o	configuration type:	
Clear Configuration	Allows you to clear existing configuration only.	
C New Configuration	Clears the existing configuration. If you have any existing da in the earlier defined drives, the data will be lost.	ata
⊙ Add Configuration	Retains the old configuration and then adds new drives to the configuration. This is the safest operation as it does not result in any data loss.	2
	4	
	🗙 Cancel 🛛 🛶 Ne	ext

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

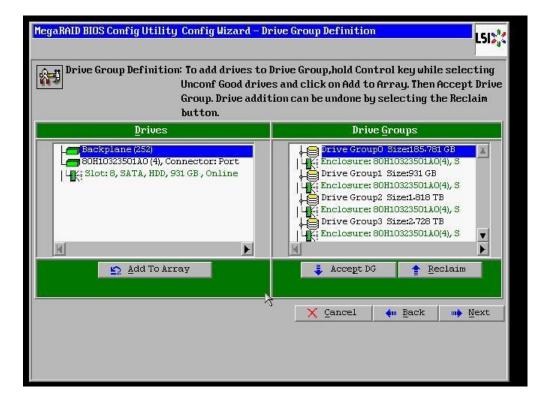
Megal	RAID BIOS Config Utility	Configuration Wizard			LSIX
Sele	ect Configuration Method	:			
ē	Manual Configuration				
	Manually create drive g	groups and virtual driv	es and set their	parameters a	as desired.
C	Automatic Configuratio	n			
100	Automatically create th	ne most efficient confi	guration.		
	<u>R</u> edundancy:	Redundancy when pos	ssible	V	
			🗙 Cancel	<u>B</u> ack	m⇒ <u>N</u> ext
		X			



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	y Config Wizard – Sp	an Definition	RAID BIOS Config Utilit	y Config Wizard – Sj	Dan Definition
Span Definition:	drop-down.Click o	to a Span, select an array hole from the n Add To Span. Array hole will be added to the dition can be undone by selecting the	Span Definition:	drop-down.Click o	to a Span, select an array hole from the n Add To Span. Array hole will be added to the ddition can be undone by selecting the
Array <u>W</u> ith Free	Space	Span	Array With Free	Space	Span
Drive Group#,Holes0,R5,1.	819 TB 🛛			V	DELVE GRoups4,R5,1.819/TB
	PAN	1 Reclaim	🔄 💁 🛓 dd to SF	PAN	reclaim
	ß	X Cancel 🐠 Back 🕪 Next		Ŕ	X Cancel 🔶 Back 🕪 Next

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

MegaRAID BIOS Co	mfigUtility ConfigWizard	- Virtual Drive Definition
RAID Level	RAIDO	Virtual Drives
<u>S</u> trip Size	256 KB	
Access Policy	RW	
Read <u>P</u> olicy	Ahead y	
Write Policy	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 🖣 Back 🕪 Mext



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	RAID 5	<u>V</u> irtual Drives	
Strip Size	64 KB		Write Through mode eliminates risk of losing cached data in case of power failure. But it may result in slower performance.
Access Policy	RW	Drive Group 1	
Read <u>P</u> olicy	Adaptive	Drive Group 2	Are you sure you want to select Write Through mode?
<u>Write Policy</u>	Write Through	Drive Group 4	
IQ Policy	Direct 🔻		
Drive Cache	NoChange 🔻	Next LD, Possible RAID Levels R5:1-819 TB	
Disable B <u>G</u> I	No		
Select Size	1.819 TB 🔻		
	🗼 Accept	🔆 🐑 Reclaim	7
		X Cancel 🗰 Back 🕪 Mext	

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

MegaRAID BIOS Config Utility Config Wizard - Previeu	HegaRAID BIOS Config Utility Confirm Page	LSID
Configuration Preview: This is the configuration defined. Click ACCEPT this configuration. Drives Uirtual Drives Backplane (252) Image: Comp 0	Save this Configuration ?	
Slot: 4, SATA, HDD, 1418 TB, On Slot: 5, SATA, HDD, 931 GB, Onl Slot: 5, SATA, HDD, 931 GB, Onl VD 4 Drive Group 3 WD 4 Drive Group 4 Drive Group 4		
X Cancel 4 Back	<u>Locept</u>	



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

RAID BIOS Config Utility	Manage SSD Caching	LSIX
It is possible to enable Virtual Drive:	: SSD caching on the following new virtual d	rives.
Virtual Drive	SSD Caching	
1	10	
□ ^{≜11}		
	<u>Enable</u> <u>Cance</u>	
el		

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.

		LSID
Exit Application	No <u>Yes</u>	
	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.

