

# EVA Disk Placement (includes expansion cabinet)

(public distribution authorized)



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Version: 3-1



# 2 Document History

Version	Date	Comments
2-5-2	5-Sep-07	added document history section
2-6	28-Sep-07	added section 3-1
2-7	19-Jan-08	updated copyright, changed Enclosure Address information on EVA5000 and EVA8000/8100
2-8	20-May-08	added EVA4400, rearranged Miscellaneous Notes Section so the Drive Count Requirements do not appear to only apply to the 5000/8x00
2-9	3-Jun-09	added EVA6400 and EVA8400, modified section 3
3-0	5-Aug-09	corrected section 3-2-2, changed document format, changed array drawings
3-1	2-Sep-09	added all controllers in section 3-1, rearranged loops on EVA6000/6100, EVA6400 and EVA8400 drawings, added sections 3-5 and 3-6





# 3 Introduction

With increasing demand for more storage, new connectivity options (such as iSCSI) being adopted, and HP StorageWorks Division's commitment to protecting customer's investments with feature/functionality improvements to the EVA storage solutions, many customers see the value of expanding capacity on their currently deployed EVA storage array.

To assure a successful upgrade experience, this guide documents the requirements of disk placement in all current EVA arrays.

#### 3.1 Controller Models

EVA Model	Controller Model
EVA3000	HSV100 or HSV101 (VCS 4.x)
EVA4000	HSV200
EVA4100	HSV200-B
EVA4400	HSV300
EVA5000	HSV110 or HSV111 (VCS 4.x)
EVA6000	HSV200 or HSV200-A
EVA6100	HSV200-B
EVA6400	HSV400
EVA8000	HSV210 or HSV210-A
EVA8100	HSV210-B
EVA8400	HSV450

# 3.2 Drive Count Requirements

# 3.2.1 EVA3000, EVA5000, EVA4000/4100, EVA6000/6100, EVA8000/8100

- The minimum number of drives per shelf is 4.
- **Caution:** While a shelf with only 1 to 3 drives will pass its diagnostic tests, this is not a supported configuration.
- The minimum number of drives per array is 8.
- Never install a drive shelf without any drives.

#### 3.2.2 EVA4400, EVA6400, EVA8400

- The minimum number of drives per array is 8, except solid state disks.
- The minimum number of solid state drives per array is 6 and the maximum is 8.





#### 3.3 Drive Placement Restrictions

#### 3.3.1 EVA5000

- **Caution:** Failure to observe the disk drive bay restrictions may cause the storage system to become inoperative until all the slots are empty.
- **Never** use Bay 13 or 14 in drive enclosures with the ID of 17 or 20. The AL-PAs of these bays conflict with the AL-PAs of the controllers. Use of these slots is not supported.
- As a guide, do not install any drives in Bays 13 or 14 in enclosures 15 through 20.

#### 3.3.2 EVA8000/8100

- **Caution:** Failure to observe the disk drive bay restrictions may cause the storage system to become inoperative until all the slots are empty.
- **Never** use Bays 12, 13 or 14 in drive enclosures with the ID of 17 or 20. Some of the AL-PAs of these bays conflict with the AL-PAs of the controllers and others conflict with the new 4GB backend loop switches. Use of these slots is not supported.
- As a guide, do not install any drives in Bays 12, 13 or 14 in enclosures 16, 17 and 19, 20. This will keep both loops equally balanced.

# 3.4 Expansion Cabinet Requirements

#### 3.4.1 EVA5000

- Cables in the main EVA rack can be either copper fiber channel or optical fiber channel.
- Cables crossing between racks must be optical fiber channel.
- An EVA without loop switches and daisy chained cables can have intermixed copper fiber channel and optical fiber channel; i.e. optical fiber channel from controller to 1st enclosure and copper fiber channel from 1st enclosure to second enclosure etc.
- **Caution:** For proper copper fiber channel cable support the IO modules have to be at Rev E or higher.

#### 3.4.2 EVA8000/8100

- Cables in the main EVA rack can be either copper fiber channel or optical fiber channel.
- Cables crossing between racks must be optical fiber channel.
- An EVA without loop switches and daisy chained cables can have intermixed copper fiber channel and optical fiber channel; i.e. optical fiber channel from controller to 1st enclosure and copper fiber channel from 1st enclosure to second enclosure etc.
- **Caution:** For proper copper fiber channel cable support the IO modules have to be at Rev E or higher.

#### 3.4.3 EVA8400

- Cables in the main EVA rack can be either copper fiber channel or optical fiber channel.
- Cables crossing between racks must be optical fiber channel.





## 3.5 Drive Enclosure Requirements

#### 3.5.1 EVA3000, EVA4000/4100

- The minimum number of enclosures is 1.
- The maximum number of enclosures is 4.
- **Recommendation** is to have an enclosure count divisible by 2.

#### 3.5.2 EVA4400, EVA6000/6100

- The minimum number of enclosures is 1.
- The maximum number of enclosures is 8.
- **Recommendation** is to have an enclosure count divisible by 2.

#### 3.5.3 EVA5000, EVA6400, EVA8000/8100

- The minimum number of enclosures is 2.
- The maximum number of enclosures is 18.
- Recommendation is to have an enclosure count divisible by 2.

#### 3.5.4 EVA8400

- The minimum number of enclosures is 3.
- The maximum number of enclosures is 27.
- **Recommendation** is to have an enclosure count divisible by 3.

# 3.6 Backend Loops

## 3.6.1 EVA3000, EVA4000/4100, EVA4400, EVA6000/6100

These arrays have 1 backend loop.

#### 3.6.2 EVA5000, EVA6400, EVA8000/8100

These arrays have 2 backend loops.

#### 3.6.3 EVA8400

This array has 3 backend loops.





# 4 Drive Placement

The following symbols and colors are used to identify EVA backend loops and drive placement.

- $\Delta$  Available drive locations for loop 1.
- Available drive locations for loop 2.
- Available drive locations for loop 3.
- X No drives are allowed in these locations for this configuration.





#### 4.1 EVA3000

						Di	rive	Bay	/ Nu	ımb	er						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14		
SS	5						Сс	ntr	oller	^ A							Phy
Address	5						Сс	ntr	oller	<sup>-</sup> B							Physical
1 '	4	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#4	
Sure	3	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#3	Shelf
Enclosure	2	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#2	
	1	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#1	Count
	Δ	4	4	4	4	4	4	4	4	4	4	4	4	4	4	_	
	Total	4	4	4	4	4	4	4	4	4	4	4	4	4	4	56	





# 4.2 EVA4000/4100

						Dı	rive	Bay	/ Nu	ımb	er						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14		
SS	5						Сс	ntr	ollei	- A							Ph)
Address	5						Сс	ntr	ollei	<sup>-</sup> B							Physical
I '	4	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#4	
Sure	3	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#3	Shelf
Enclosure	2	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#2	S.
Гņ	1	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#1	Count
	Δ	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
	Total	4	4	4	4	4	4	4	4	4	4	4	4	4	4	56	





# 4.3 EVA4400

						Drive	е Вау	/ Nur	nber						
		1	2	3	4	5	6	7	8	9	10	11	12		
	he		Cor	ntroll	er 2	(B)			Cor	ntroll	er 1	(A)			
	are by the	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#8	]
Address	ed ed	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#7	Physical
\dqi	ure addresses ally assigned controllers.	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#6	
	add ass ass troll	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#5	Shelf
Enclosure	ure Sally cont	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#4	
Enc	Enclosure automatically cont	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#3	Count
	Enc	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#2	]
	an	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#1	
	Δ		24			24			24			24			
	Total		24			24			24			24		96	





# 4.4 EVA5000 with 2GB loop switches

**Caution:** Failure to observe the disk drive bay restrictions may cause the storage system to become inoperative until all the slots are empty.

**Never** use Bay 13 or 14 in drive enclosures with the ID of 17 or 20. The AL-PAs of these bays conflict with the AL-PAs of the controllers. Use of these slots is not supported.

• As a guide, do not install any drives in Bays 13 or 14 in enclosures 15 through 20.

																1	
						Dı	rive	Вау	/ Nu	ımb	er						
		1	2	В	4	5	6	7	8	9	10	11	12	13	14		
	20	<b>\$</b>	Х	Х	#18												
	19	<b>\$</b>	Х	Х	#17												
	18	<b>\$</b>	Х	Х	#16												
	17	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Х	Х	#15	
	16	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Χ	Х	#14	
	15	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Χ	Х	#13	
	13 or 14	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	#12	1
SS	12 or 13	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	#11	밁
Address	11 or 12	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	#10	Physical Shelf Count
Ad Ad	10 or 11	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	#9	<u>a</u>
Enclosure	9 or 10	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	#8	helf
	8 or 9	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	#7	<u>0</u>
🖆	7						Со	ntro	oller	- A							] #
	/						Со	ntro	oller	- В							
	6	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#6	
	5	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#5	
	4	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#4	
	3	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#3	
	2	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#2	
	1	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#1	
	<b>♦</b>	9	9	9	9	9	9	9	9	9	9	9	9	6	6		
	Δ	9	9	9	9	9	9	9	9	9	9	9	9	6	6		
	Total	18	18	18	18	18	18	18	18	18	18	18	18	12	12	240	





# 4.5 EVA6000/6100

There are no drive placement restrictions.

			Drive Bay Number														
						Dı	rive	Вау	/ Nu	ımb	er						
	1 2 3 4 5 6 7 8 9 10 11 12 13 14																
	10	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#8	
	9	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#7	
SS	8	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#6	Ph)
Address	6	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#5	Physical
	5						Со	ntro	oller	- A							
Enclosure	5						Со	ntro	oller	- В							Shelf
	4	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#4	Count
🖆	3	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#3	] #
	2	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#2	
	1	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#1	
	Δ	8	8	8	8	8	8	8	8	8	8	8	8	8	8		

**Note:** The controller pair must use the #5 enclosure address.

• Enclosure address #7 must never be used on an EVA6000/6100.





#### 4.6 EVA6400

						Drive	e Bay	/ Nur	nber						
		1	2	3	4	5	6	7	8	9	10	11	12		
		Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#18	
	<u> </u>  ers	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#17	]
	ıtro	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#16	1
	50	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#15	
	the	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#14	
	þ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#13	
	ned	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#12	
SS	ssig	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#11	] 뭐
Address	automatically assigned by the controllers.	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#10	Physical Shelf Count
- Ad	ical					С	ontr	oller	A						] s
Enclosure	mat					С	ontr	oller	В						helf
Se	utoı	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	#9	] [ ]
🛅	e a	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>\Q</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	#8	]
	is at	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>\langle</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	#7	
	SSSe	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>\langle</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	#6	
	ddre	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>\langle</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>\$</b>	#5	
	ė a	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>\Q</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	#4	
	Sur	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>&lt;</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>\$</b>	#3	
	Enclosure addresses are	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>&lt;</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>♦</b>	<b>\$</b>	#2	
	Ш	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	#1	
	Δ		27			27			27			27			
	$\Diamond$		27			27			27			27			
	Total		54			54			54			54		216	



# 4.7 EVA8000/8100 with 2GB or 4GB loop switches

**Caution:** Failure to observe the disk drive bay restrictions may cause the storage system to become inoperative until all the slots are empty.

**Never** use Bays 12, 13 or 14 in drive enclosures with the ID of 17 or 20. Some of the AL-PAs of these bays conflict with the AL-PAs of the controllers and others conflict with the new 4GB backend loop switches. Use of these slots is not supported.

• As a guide, do not install any drives in Bays 12, 13 or 14 in enclosures 16, 17 and 19, 20. This will keep both loops equally balanced.

						Dı	rive	Bay	/ Nu	ımb	er						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14		
	20	<b>\$</b>	Χ	Х	Х	#18											
	19	<b>\$</b>	Х	Х	Х	#17											
	18	<b>\$</b>	#16														
	17	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Х	Х	Х	#15	
	16	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Χ	Х	Х	#14	
	15	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#13	
	13 or 14	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	#12	
SS	12 or 13	<b>\$</b>	#11	밁													
Address	11 or 12	<b>\$</b>	#10	/sica													
	10 or 11	<b>\$</b>	#9	al S													
Sure	9 or 10	<b>\$</b>	#8	helf													
Enclosure	8 or 9	<b>\$</b>	#7	Physical Shelf Count													
🛅	7						Сс	ntr	oller	- A							nt
	,						Сс	ntr	oller	- В							
	6	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#6	
	5	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#5	
	4	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#4	
	3	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#3	
	2	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#2	
	1	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#1	
	<b>\$</b>	9	9	9	9	9	9	9	9	9	9	9	7	7	7		
	Δ	9	9	9	9	9	9	9	9	9	9	9	7	7	7		
	Total	18	18	18	18	18	18	18	18	18	18	18	14	14	14	240	





# 4.8 EVA8400

						Driv	e Bay	y Nur	nber						
		1	2	3	4	5	6	7	8	9	10	11	12		
		Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#27	
		Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#26	1
		Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#25	1
		<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	#24	1
		<b>\Q</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	#23	1
	5.	<b>\Q</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	#22	1
	olle	∞	∞	<sub>∞</sub>	8	∞	<b>∞</b>	∞	∞	$\infty$	8	∞	8	#21	1
	ontr	∞	∞	<sub>∞</sub>	8	∞	<sub>∞</sub>	∞	<sub>∞</sub>	∞	8	<sub>∞</sub>	8	#20	1
	je cc	<sub>∞</sub>	∞	<sub>∞</sub>	8	<sub>∞</sub>	<sub>∞</sub>	∞	<sub>∞</sub>	<sub>∞</sub>	<sub>∞</sub>	<sub>∞</sub>	8	#19	
	automatically assigned by the controllers.	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#18	
	q p	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#17	1
	igne	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#16	] <sub>~</sub>
ess.	assi	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#15	hys
ddr	<u></u>	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#14	ical
re /	atica	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	#13	She
nso	o Mis	<b>\Q</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	#12	] \(\frac{1}{2}\)
Enclosure Address	aut	<b>\Q</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	#11	Physical Shelf Count
	are	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>♦</b>	<b>\$</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	#10	] #
	ses					C	Contro	oller	A						1
	Enclosure addresses					C	Contro	oller	В						
	add	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	#9	
	ure	<b>\Q</b>	<b>♦</b>	<b>♦</b>	<b>\Q</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	<b>♦</b>	<b>♦</b>	<b>\$</b>	#8	
	sola	<b>♦</b>	<b>♦</b>	<b>♦</b>	<b>\Q</b>	<b>♦</b>	<b>\$</b>	#7							
	Enc	∞	∞	8	8	8	8	8	∞	8	8	∞	8	#6	
		∞	<sub>∞</sub>	∞	8	<sub>∞</sub>	8	8	<sub>∞</sub>	∞	8	<sub>∞</sub>	8	#5	
		∞	<sub>∞</sub>	∞	8	8	8	8	<sub>∞</sub>	∞	8	<sub>∞</sub>	8	#4	
		∞	∞	<sub>∞</sub>	8	∞	∞	∞	∞	∞	8	∞	8	#3	
		∞	∞	<sub>∞</sub>	8	∞	∞	<sub>∞</sub>	<sub>∞</sub>	∞	<sub>∞</sub>	<sub>∞</sub>	8	#2	1
		∞	∞	<sub>∞</sub>	8	∞	<sub>∞</sub>	∞	∞	∞	∞	∞	8	#1	
	Δ		27			27			27			27			
	<b>♦</b>		27			27			27			27			
	∞		27			27			27			27			
	Total		81			81			81			81		324	

