

## Cable the MetroCluster IP switches

**ONTAP MetroCluster** 

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# Cabling the IP switches

You must cable each IP switch to the local controller modules and to the ISLs.

- This task must be repeated for each switch in the MetroCluster configuration.
- The controller module Ethernet port usage depends on the model of the controller module.

# Using the port tables with the RcfFileGenerator tool or multiple MetroCluster configurations

You must understand how to use the information in the port tables to correctly generate your RCF files.

#### Before you begin

Review these considerations before using the tables:

- The following tables show the port usage for site A. The same cabling is used for site B.
- The switches cannot be configured with ports of different speeds (for example, a mix of 100 Gbps ports and 40 Gbps ports).
- Keep track of the MetroCluster port group (MetroCluster 1, MetroCluster 2, etc.). You will need this information when using the RcfFileGenerator tool as described later in this configuration procedure.
- The RcfFileGenerator for MetroCluster IP also provides a per-port cabling overview for each switch. Use this cabling overview to verify your cabling.

## Cabling eight-node MetroCluster configurations

For MetroCluster configuration running ONTAP 9.8 and earlier, some procedures that are performed to transition an upgrade require the addition of a second four-node DR group to the configuration to create a temporary eight-node configuration. Starting with ONTAP 9.9.1, permanent 8-node MetroCluster configurations are supported.

#### About this task

For such configurations, you use the same method as described above. Instead of a second MetroCluster, you are cabling an additional four-node DR group.

For example, your configuration includes the following:

- Cisco 3132Q-V switches
- MetroCluster 1: FAS2750 platforms
- MetroCluster 2: AFF A700 platforms (these platforms are being added as a second four-node DR group)

#### Steps

- 1. For MetroCluster 1, cable the Cisco 3132Q-V switches using the table for the FAS2750 platform and the rows for MetroCluster 1 interfaces.
- 2. For MetroCluster 2 (the second DR group), cable the Cisco 3132Q-V switches using the table for the AFF A700 platform and the rows for MetroCluster 2 interfaces.

# Platform port assignments for Cisco 3132Q-V switches

The port usage in a MetroCluster IP configuration depends on the switch model and platform type.

## Port usage for FAS2750 or AFF A220 systems and a Cisco 3132Q-V switch

Cabling an AFF A220 or FAS2750 to a Cisco 3132Q-V switch			
	FAS2750.	Switch	
Port use	IP_switch_x_1	IP_switch_x_2	Port
			1
			2
Unused			3
onusea		-	4
			5
			6
ISL, Local Cluster	121 1000	l Cluster	7
native speed / 40G / 100G	131, 100	ii Ciustei	8
	e0a	e0b	9/1
MetroCluster 1, Shared Cluster and	disabled		9/2-4
MetroCluster interface	e0a	e0b	10/1
	disa	bled	10/2-4
	e0a	e0b	11/1
MetroCluster 2, Shared Cluster and	disa	bled	11/2-4
MetroCluster interface	e0a	e0b	12/1
	disa	bled	12/2-4
	e0a	e0b	13/1
MetroCluster 3, Shared Cluster and	disa	bled	13/2-4
MetroCluster interface	e0a	e0b	14/1
	disa	bled	14/2-4
ISL, MetroCluster native speed 40G	ISL, Meti	roCluster	15 - 20
ISL, MetroCluster breakout mode	ISL. Met	roCluster	21/1-4
10G	102, 11100		22/1-4
100			23/1-4
			24/1-4
Unused		-	25 - 32

Port usage for FAS9000, AFF A700 and a Cisco 3132Q-V switch

Dord	FAS9000,	AFF A700	Switch port
Port use	IP_switch_x_1	IP_switch_x_2	Port
MetroCluster 1			1
Local Cluster interface			2
MetroCluster 2	See Hardwa	re Universe	3
Local Cluster interface	for availa	ble ports	4
MetroCluster 3			5
Local Cluster interface			6
ISL, Local Cluster	121 120	re Universe ble ports  I Cluster  e5b  e5b  e5b  e5b  e5b  oCluster	7
native speed / 40G / 100G	ISL, LOCA	ii Ciustei	8
MetroCluster 1	e5a	e5b	9
MetroCluster interface	e5a	e5b	10
MetroCluster 2	e5a	e5b	11
MetroCluster interface	e5a	e5b	12
MetroCluster 3	e5a	e5b	13
MetroCluster interface	e5a	e5b	14
			15
ISL, MetroCluster			16
native speed	ISI Mot	roClustor	17
40G	ISL, WIEL	lociustei	18
400			19
			20
ISL, MetroCluster			21/1-4
breakout mode 10G	ISL, Meti	roCluster	22/1-4
			23/1-4
			24/1-4
Unused		-	25 - 32

Port usage for AFF A800 and a Cisco 3132Q-V switch

Cabling an AFF A800 to a Cisco 3132Q-V switch			
Bart	AFF A800		S. H. B. A
Port use	IP_switch_x_1	IP_switch_x_2	Switch Port
MetroCluster 1			1
Local Cluster interface			2
MetroCluster 2	See Hardwa	re Universe	3
Local Cluster interface	for availa	for available ports	
MetroCluster 3			
Local Cluster interface			
ISL, Local Cluster	121 1000	ISL, Local Cluster	
native speed / 40G / 100G	ISL, LUCA		
MetroCluster 1	e0b	e1b	9
MetroCluster interface	e0b	e1b	10
MetroCluster 2	e0b	e1b	11
MetroCluster interface	e0b	e1b	12
MetroCluster 3	e0b	e1b	13
MetroCluster interface	e0b	e1b	14
			15
ISL, MetroCluster			16
native speed	ISI Met	roCluster	17
40G	ISE, WIEL	ociustei	18
400			19
			20
ISL, MetroCluster		ISL, MetroCluster	
breakout mode 10G	ISL, Metr		
			23/1-4
			24/1-4
Unused		-	25 - 32

# Platform port assignments for Cisco 3232C or Cisco 9336C switches

The port usage in a MetroCluster IP configuration depends on the switch model and platform type.

Review these considerations before using the tables:

- The following tables show the port usage for site A. The same cabling is used for site B.
- The switches cannot be configured with ports of different speeds (for example, a mix of 100 Gbps ports and 40 Gbps ports).
- If you are configuring a single MetroCluster with the switches, use the MetroCluster 1 port group.

Keep track of the MetroCluster port group (MetroCluster 1, MetroCluster 2, or MetroCluster 3). You will need it when using the RcfFileGenerator tool as described later in this configuration procedure.

• The RcfFileGenerator for MetroCluster IP also provides a per-port cabling overview for each switch.

Use this cabling overview to verify your cabling.

### Cabling two MetroCluster configurations to the switches

When cabling more than one MetroCluster configuration to a Cisco 3132Q-V switch, then cable each MetroCluster according to the appropriate table. For example, if cabling a FAS2750 and an A700 to the same Cisco 3132Q-V switch. Then you cable the FAS2750 as per 'MetroCluster 1' in Table 1, and the A700 as per 'MetroCluster 2' or 'MetroCluster 3' in Table 2. You cannot physically cable both the FAS2750 and A700 as 'MetroCluster 1'.

### Cabling a FAS2750 or AFF A220 system to a Cisco 3232C or Cisco 9336C switch

Cabling an AFF A220 or FAS2750 to a Cisco 3232C or Cisco 9336C switch			
	FAS2750,	FAS2750, AFF A220	
Port use	IP_switch_x_1	IP_switch_x_2	Switch port
Unused		-	1-6
ISL, Local Cluster	121 1.000	l Cluster	7
native speed / 100G	ISE, LUCA	Cluster	8
	e0a	e0b	9/1
MetroCluster 1, Shared Cluster	disa	bled	9/2-4
and MetroCluster interface	e0a	e0b	10/1
	disa	bled	10/2-4
	e0a	e0b	11/1
MetroCluster 2, Shared Cluster	disa	bled	11/2-4
and MetroCluster interface	e0a	e0b	12/1
	disa	bled	12/2-4
	e0a	e0b	13/1
MetroCluster 3, Shared Cluster	disa	bled	13/2-4
and MetroCluster interface	e0a	e0b	14/1
	disa	bled	14/2-4
			15
ISL, MetroCluster			16
native speed	ISI Motr	oCluster	17
40G / 100G	ISL, MELI	ociustei	18
400 / 1000	e0a e0b disabled	19	
			20
ISL, MetroCluster			21/1-4
breakout mode	ISI Matr	oCluster	22/1-4
10G	ist, weti	Colubici	23/1-4
100			24/1-4
Unused		-	25 - 32

abling a AFF A300 or FAS8200 to a Cisco 3232C or Cisco 9336C switc	ch

Cabling a AFF A300 or FAS8200 to a Cisco 3232C or Cisco 9336C switch			
	FAS8200,	AFF A300	
Port use	IP_switch_x_1	IP_switch_x_2	Switch port
			1/1
MetroCluster 1			1/2 - 4
Local Cluster interface			2/1
			2/2 - 4
	7		3/1
MetroCluster 2	See Hardwa	See Hardware Universe	
Local Cluster interface	for availa	ble ports	4/1
	7		5/1
MetroCluster 3			5/2 - 4
Local Cluster interface			6/1
			6/2 - 4
ISL, Local Cluster			7
native speed / 100G	ISL, Loca	l Cluster	8
	e1a	e1b	9/1
MetroCluster 1		bled	9/2-4
MetroCluster interface	e1a	e1b	10/1
		bled	10/2-4
	e1a	e1b	11/1
MetroCluster 2		bled	11/2-4
MetroCluster interface	e1a	e1b	12/1
menodiaster menade		bled	12/2-4
	e1a	e1b	13/1
MetroCluster 3		bled	13/2-4
MetroCluster interface	e1a	e1b	14/1
Wetrociaster interrace		bled	14/2-4
ISL, MetroCluster		oCluster	15 - 20
ISE, MIELIOCIUSIEI	ISE, WIEL	ociustei	21/1-4
ISL, MetroCluster			22/1-4
breakout mode	ISL, Met	roCluster	23/1-4
10G			
	-1-	-16	24/1-4
MetroCluster 4	e1a	e1b bled	25/1
MetroCluster 4 MetroCluster interface			25/2-4
Metrocluster Interrace	e1a	e1b	26/1
Harrier I	disa	bled	26/2-4
Unused			27 - 28
		re Universe	29/1
MetroCluster 4		bled	29/2-4
Local Cluster interface		re Universe	30/1
	disa	bled	30/2-4
Unused		-	31 - 32

## Cabling a AFF A250 or FAS500f to a Cisco 3232C or Cisco 9336C switch

Cabling an AFF A250 or FAS500f to a Cisco 3232C or Cisco 9336C switch				
	FAS500f,	FAS500f, AFF A250		
Port use	IP_switch_x_1	IP_switch_x_1		
Unused		-	1-6	
ISL, Local Cluster	121 1000	l Cluster	7	
native speed / 100G	ISL, LOCA	Cluster	8	
MetroCluster 1, Shared	e0c	e0d	9/1	
Cluster and MetroCluster	disa	bled	9/2-4	
interface	e0c	e0d	10/1	
interrace	disa	bled	10/2-4	
MotroClustor 2 Shared	e0c	e0d	11/1	
Cluster and MetroCluster	disabled   e0c   e0d   disabled	11/2-4		
interface	e0c	e0d	12/1	
interrace	disabled		12/2-4	
MetroCluster 3, Shared	e0c	e0d	13/1	
Cluster and MetroCluster	disabled e0c e0d disabled e0c e0d	13/2-4		
interface	e0c	e0d	14/1	
interrace	disa	bled	14/2-4	
			15	
ISL, MetroCluster			16	
native speed	ISI Mot	oCluster	17	
40G / 100G	ist, wet	ociustei	18	
400 / 1000			19	
			20	
ISL, MetroCluster			21/1-4	
breakout mode	ISI Mot	roCluster	22/1-4	
10G	ist, weti	ociustei	23/1-4	
100	24,		24/1-4	
Unused		-	25 - 32	

Cabling a AFF A320 to a Cisco 3232C or Cisco 9336C switch

Cabling a AFF A320 to a Cisco 3232C or Cisco 9336C switch			
	AFF A320		
Port use	IP_switch_x_1	IP_switch_x_2	Switch port
MetroCluster 1,			1
Local Cluster interface			2
MetroCluster 2,	See Hardwa	re Universe	3
Local Cluster interface	for availa	ble ports	4
MetroCluster 3,			5
Local Cluster interface			6
ISL, Local Cluster	ISI Loca	l Clustor	7
native speed / 100G	ISL, Local Cluster		8
MetroCluster 1,	e0g	e0h	9
MetroCluster interface	e0g	e0h	10
MetroCluster 2,	e0g	e0h	11
MetroCluster interface	e0g	e0h	12
MetroCluster 3,	e0g	e0h	13
MetroCluster interface	e0g	e0h	14
			15
ISL, MetroCluster			16
native speed	ISI Metr	oCluster	17
40G / 100G	iot, with	ociustei	18
4007 1000			19
			20
ISL, MetroCluster			21/1-4
breakout mode	ISI. Metr	oCluster	22/1-4
10G	iot, meti	oordster	23/1-4
			24/1-4
			25
			26
			27
Unused			28
Shasea	-		29
			30
			31
			32

Cabling an AFF A400, FAS8300 or FAS8700 to a Cisco 3232C or Cisco 9336C switch

Cabling a AFF A400, FAS8300 or FAS8700 to a Cisco 3232C or Cisco 9336C switch				
	FAS8300, FAS8			
Port use	IP_switch_x_1	IP_switch_x_2	Switch port	
MetroCluster 1,			1	
Local Cluster interface			2	
MetroCluster 2,	See Hardwa	re Universe	3	
Local Cluster interface	for availa	ble ports	4	
MetroCluster 3,			5	
Local Cluster interface			6	
ISL, Local Cluster	ISI Loca	l Clustor	7	
native speed / 100G	ISL, Local Cluster		8	
MetroCluster 1,	e1a	e1b	9	
MetroCluster interface	e1a	e1b	10	
MetroCluster 2,	e1a	e1b	11	
MetroCluster interface	e1a	e1b	12	
MetroCluster 3,	e1a	e1b	13	
MetroCluster interface	e1a	e1b	14	
			15	
ISL, MetroCluster			16	
native speed	ISI Motr	oCluster	17	
40G / 100G	ist, weti	ociustei	18	
400 / 1000			19	
			20	
ISL, MetroCluster			21/1-4	
breakout mode	ISI Motr	oCluster	22/1-4	
10G	ISL, WELL	ociustei	23/1-4	
100			24/1-4	
			25	
			26	
			27	
Unused		_	28	
onuseu		-	29	
			30	
			32	

Cabling a AFF A700 or FAS9000 to a Cisco 3232C or Cisco 9336C switch

	FAS9000,	FAS9000, AFF A700	
Port use	IP_switch_x_1	IP_switch_x_2	Switch port
MetroCluster 1,			1
Local Cluster interface			2
MetroCluster 2,	See Hardwa	re Universe	3
Local Cluster interface	for availa	ble ports	4
MetroCluster 3,			5
Local Cluster interface			6
ISL, Local Cluster	ISI Jaco	I Chuston	7
native speed / 100G	ISL, LOCA	e5a e5b	
MetroCluster 1,	e5a	e5b	9
MetroCluster interface	e5a	e5b	10
MetroCluster 2,	e5a	e5b	11
MetroCluster interface	e5a	e5b	12
MetroCluster 3,	e5a	e5b	13
MetroCluster interface	e5a	e5b	14
			15
ISL, MetroCluster			16
native speed	ISI Mot	roCluster	17
40G / 100G	ist, weti	ociustei	18
400 / 1000			19
			20
ICI MetroCluster			21/1-4
ISL, MetroCluster breakout mode	ISI Mot	roCluster	22/1-4
10G	ist, weti	ociustei	23/1-4
100			24/1-4
			25
			26
			27
Unused			28
onusea		-	29
			30
			31
			32

Cabling a AFF A800 to a Cisco 3232C or Cisco 9336C switch

Cabling an AFF A800 to a Cisco 3232C or Cisco 9336C switch			
	AFF A800		
Port use	IP_switch_x_1	IP_switch_x_2	Switch port
MetroCluster 1,			1
Local Cluster interface			2
MetroCluster 2,	See Hardware Universe		3
Local Cluster interface	for availa	ble ports	4
MetroCluster 3,			5
Local Cluster interface			6
ISL, Local Cluster	121 1000	l Cluster	7
native speed / 100G	ISL, LOCA	rciuster	8
MetroCluster 1,	e0b	e1b	9
MetroCluster interface	e0b	e1b	10
MetroCluster 2,	e0b	e1b	11
MetroCluster interface	e0b	e1b	12
MetroCluster 3,	e0b	e1b	13
MetroCluster interface	e0b	e1b	14
			15
ISL, MetroCluster			16
native speed	ISI Mot	oCluster	17
40G / 100G	ist, Weti	ociustei	18
400 / 1000			19
			20
ISL, MetroCluster			21/1-4
breakout mode	ISI Metr	oCluster	22/1-4
10G	ISE, WIEL	ociustei	23/1-4
100			24/1-4
			25
			26
			27
Unused		_	28
onuseu		_	29
			30
			31
			32

Cabling an AFF A320, AFF A400, AFF A700 or AFF A800 to a Cisco 9336C-FX2 shared switch

Cabling an AFF A	320, A400, A700, and A800 t	to a Cisco 9336C-FX2 shared	switch
MetroCluster 1,		1	
Local Cluster Interface	See Hardwa	are Universe	2
MetroCluster 2,	for availa	able ports	3
Local Cluster Interface	·		4
Storage shelf 1 (9)	NSM-A, e0a	NSM-A, e0b	5
Storage shell 1 (5)	NSM-B, e0a	NSM-B, e0b	6
ISL, Local Cluster	121 1.000	l Cluster	7
native speed / 100G	ISL, Local Cluster		8
MetroCluster 1,	Port 'A'	Port 'B'	9
MetroCluster interface	Port 'A'	Port 'B'	10
MetroCluster 2,	Port 'A'	Port 'B'	11
MetroCluster interface	Port 'A'	Port 'B'	12
ICI MatraCluster			13
ISL, MetroCluster,	ICL MatraCluster	ICL MatraCluster	14
native speed 40G / 100G breakout mode 10G	ISL, MetroCluster	ISL, MetroCluster	15
breakout mode 10G			16
MetroCluster 1,			17
Storage Interface	See Hardwa	are Universe	18
MetroCluster 2,	for availa	19	
Storage Interface		20	
Storage shelf 2 (8)	NSM-A, e0a	NSM-A, e0b	21
Storage shelf 2 (8)	NSM-B, e0a	NSM-B, e0b	22
Stores shalf 2 (7)	NSM-A, e0a	NSM-A, e0b	23
Storage shelf 3 (7)	NSM-B, e0a	NSM-B, e0b	24
Storage shalf 4 (6)	NSM-A, e0a	NSM-A, e0b	25
Storage shelf 4 (6)	NSM-B, e0a	NSM-B, e0b  Port 'B' Port 'B' Port 'B' Port 'B'  ISL, MetroCluster  Vare Universe lable ports  NSM-A, e0b NSM-B, e0b	26
	NSM-A, e0a	NSM-A, e0b	27
Storage shelf 5 (5)	NSM-B, e0a		28
Storage shalf 5 (4)	NSM-A, e0a	NSM-A, e0b	29
Storage shelf 6 (4)	NSM-B, e0a		30
Storage shalf 7 (2)	NSM-A, e0a	NSM-A, e0b	31
Storage shelf 7 (3)	NSM-B, e0a		32
	NSM-A, e0a	NSM-A, e0b	33
Storage shelf 8 (2)	NSM-B, e0a	-	34
	NSM-A, e0a	-	35
Storage shelf 9 (1)	NSM-B, e0a	NSM-B, e0b	36

MetroCluster interfaces per platform			
Platform	Port 'A'	Port 'B'	
AFF A320	e0g	e0h	
AFF A400	e1a	e1b	
AFF A700	e5a	e5b	
AFF A800	e0b	e1b	

# Platform port assignments for Broadcom supported BES-53248 IP switches

The port usage in a MetroCluster IP configuration depends on the switch model and platform type.

The switches cannot be configured with ports of different speeds (for example, a mix of 25 Gbps ports and 10 Gbps ports).

#### Notes for the tables below:

- 1. For some platforms, you can use ports 49 54 for MetroCluster ISLs or MetroCluster interface connections.
  - These ports require an additional license.
- 2. Only a single AFF A320 system can be connected to the switch and no other platform can be connected at the same time.
  - Features that require a switched cluster are not supported in this configuration, including MetroCluster FC to IP transition and tech refresh procedures.
- 3. AFF A320 systems configured with Broadcom BES-53248 switches might not support all features.

Any configuration or feature that requires that the local cluster connections are connected to a switch is not supported. For example, the following configurations and procedures are not supported:

- Eight-node MetroCluster configurations
- Transitioning from MetroCluster FC to MetroCluster IP configurations
- Refreshing a four-node MetroCluster IP configuration (ONTAP 9.8 and later)

### Switch port usage for AFF A220 or FAS2750 systems

Cabling a AFF A220 or FAS2750 to a Broadcom BES-53248 switch			
Dortuge	FAS275	FAS2750, A220	
Port use	IP_switch_x_1	IP_switch_x_2	Switch port
Unused		-	
MetroCluster 3, Shared Cluster and	e0a	e0b	9
MetroCluster interface	e0a	e0b	10
MetroCluster 4, Shared Cluster and	e0a	e0b	11
MetroCluster interface	e0a	e0b	12
ISL, MetroCLuster			
•	ISL, MetroCluster		14
native speed			15
10G / 25G			
Unused	-		17 - 52
ISL, MetroCluster, native speed	ISL, MetroCluster		53
40G / 100G (see note 1)			54
ISL, Local Cluster	ISL, Local Cluster		55
native speed / 100G			56

## Switch port usage for AFF A250 or FAS500f systems

Cabling a AFF A250 or FAS500f to a Broadcom BES-53248 switch			
Port use	FAS500f, A250		Switch port
Portuse	IP_switch_x_1	IP_switch_x_2	Switch port
Unused	-		1-6
MetroCluster 3, Shared Cluster	e0c	e0d	9
and MetroCluster interface	e0c	e0d	10
MetroCluster 4, Shared Cluster	e0c	e0d	11
and MetroCluster interface	e0c	e0d	12
ISL, MetroCLuster	ISL, MetroCluster		13
·			14
native speed 10G / 25G			15
100 / 230			16
Unused	-		17 - 52
ISL, MetroCluster, native speed	ISL, MetroCluster		53
40G / 100G (see note 1)			54
ISL, Local Cluster	ISL, Local Cluster		55
native speed / 100G			56

## Switch port usage for AFF A300 or FAS8200 systems

Cabling a AFF A300 or FAS8200 to a Broadcom BES-53248 switch			
	FAS8200,	AFF A300	Switch port
Port use	IP_switch_x_1	IP_switch_x_2	
MetroCluster 1, Local Cluster interface			1
Wetrocluster 1, Local cluster interrace	See Hardwa	re Universe	2
MetroCluster 2, Local Cluster interface	for available ports		3
Wetrocluster 2, Local cluster interrace			4
MetroCluster 1, MetroCluster interface	e1a	e1b	5
Wetrocluster 1, Wetrocluster Interface	e1a	e1b	6
MetroCluster 2, MetroCluster interface	e1a	e1b	7
Wetrocluster 2, Wetrocluster Interface	e1a	e1b	8
			9
Unused	-		10
onuseu			11
			12
ISL, MetroCLuster			13
native speed	ISI Mot	oClustor	14
10G / 25G	ISL, MetroCluster		15
100 / 250			16
Unused	-		17 - 52
ISL, MetroCluster, native speed	ISL, MetroCluster		53
40G / 100G (see note 1)			54
ISL, Local Cluster	ISL, Local Cluster		55
native speed / 100G			56

Cabling a AFF A320 to a Broadcom BES-53248 switch			
Port use	AFF A320		Switch port
Port use	IP_switch_x_1	IP_switch_x_2	Switch port
Ports not used	Ports not used		1 - 12
ISL, MetroCLuster	ISL, MetroCluster		13
			14
native speed			15
10G / 25G			16
Ports not licensed (17 - 52)			
ISL, MetroCluster, native speed	ISL, MetroCluster		53
40G / 100G (see note 1)			54
MetroCluster 1, MetroCluster interface	e0g	e0h	55
(see note 2)	e0g	e0h	56

Switch port usage for AFF A400, FAS8300 or FAS8700 systems

Cabling a FAS8300, A400 or FAS8700 to a Broadcom BES-53248 switch			
Port use	FAS8300,FAS8700, A400		Curitab part
Port use	IP_switch_x_1	IP_switch_x_2	Switch port
Unused		-	1 - 12
ISI MatraClustor	ISL, MetroCluster		13
ISL, MetroCluster			14
native speed			15
10G / 25G			16
Unused	-		17 - 48
MetroCluster 5, Local Cluster interface	See Hardware Universe		49
(see note 1)	for available ports		50
MetroCluster 5, MetroCluster interface	e1a	e1b	51
(see note 1)	e1a	e1b	52
ISL, MetroCluster, native speed	ISL, MetroCluster		53
40G / 100G (see note 1)			54
ISL, Local Cluster	ISL, Local Cluster		55
native speed / 100G			56

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