Compute Node

			T-Shirt Sizes (example)	Solutio	on Rule	
MT	Model	Description	Mfg Config #1	Min	Max	Comments
Custom	ized Pers	onality: S812C Server Config = Compute Node				
8001	12C	S821LC (8001)	2	1	**	
	Solution ID	Solution Specify Code (for grouping only)	1	1	1	n/a
	Pod Type	Login Server Specify Code	1	1	1	n/a
	Processor	8-core POWER8 2.328 GHz	2	1	2	
	Memory	EKM2 (PS) 16GB DDR4 MEMORY DIMM	8	4	16	
	Bezel	EKB2 (PS) 1S STRATTON SFF FAB ASSEMBLY	1	1	1	
	Storage	Integrated Sata controller	1	1	1	Build-in HDDs: Integrate SATA controller + Optional SAS /RAID Controller
	Adapter		0	0	1	Optional - Exteral SAS adapter for Expansion SAS drawer
	Disks	EKDB 4TB 3.5" SATA HDD	1	2	2	OS Boot Disk
	2.55		0	0	4	If SAS drive is selected, please choose Bezel Assembly to match drive size (.5"
S812C	Server (Ba	se config) Required Inter-connect				
	Network	EKA2 PCIe3 2-port 10 GbE SFP+ Adapter, based on Intel XL710	2	2	3	(Required) For High Speed Network
SI:	Adapter		0	0	3	Section IO device (optional)
Genesis	Power	EKLJ (PS #6665) PWR CBL DRWR TO IBM PDU, 2.8m (9.2ft), 250V/10A, IEC320/C13, IEC320/C20	2	2	2	Select Proper Line cord if not connected to IBM PDU
Mfg		CAT5E SWITCH CABLE, BLUE (2M)	1	1	*	(Required) For OS 1G Network (Recommended 2M length min)
Required for Mfg	Cables	CAT5E SWITCH CABLE, GREEN (2M)	1	1	*	(Required) For IPMI 1G Network (Recommended 2M length min)
ired		EKC1 3M- Active Twinax cable	4	4	*	(Required) For High Speed Network (Recommended 2M length min)
nbə		No rack integration	1	1	1	
œ	Misc	Country specific FCs (keyboards, language groups) are selectable	1	1	1	User select
		Shipping and Handling	1 1	1	1	User select

Swift Node

				T-Shirt Sizes (example) Solution Rule		
MT	Model	Description	Mfg Config #1	Min	Max	Comments
stomi	ized Perso	onality: S812C Server Config = Swift Object / Metad	lata Node			
001	12C	S821LC (8001)	3	3	**	
	Solution ID	Solution Specify Code (for grouping only)	1	1	1	n/a
	Pod Type	Login Server Specify Code	1	1	1	n/a
	Processor	8-core POWER8 2.328 GHz	2	1	2	
	Memory	EKM2 (PS) 16GB DDR4 MEMORY DIMM	8	4	16	
	Bezel	EKB4 2S base system with LFF high-function drive midplane (NVMe di	1	1	1	
	Storage	Integrated Sata controller	0	0	1	Build-in HDDs: Integrate SATA controller + Optional SAS /RAID Controller
	Adapter	EKAD Storage Adapter SAS-3 3008 Chipset 8 Ports external for 1U	1	1	1	Optional - Exteral SAS adapter for Expansion SAS drawer
	Disks	128 GB SATA Disk on module SuperDOM	0	0	2	OS Boot Disk
	Disks		0	0	4	If SAS drive is selected, please choose Bezel Assembly to match drive size (.5'
	HDD Drawer	90 LFF JBOD Storage 90 LFF – 2TB SAS HDDs	1	1	1	Supermicro CSE-946ED-R2KJBOD 4U Rackmount https://www.supermicro.com/products/chassis/4u/946/SC946ED-R2KJBOD
2C S	Server (Ba	se config) Required Inter-connect				
	Network	EKA2 PCle3 2-port 10 GbE SFP+ Adapter, based on Intel XL710	2	2	3	(Required) For High Speed Network
8	Adapter		0	0	3	Section IO device (optional)
Genesis	Power	EKLJ (PS #6665) PWR CBL DRWR TO IBM PDU, 2.8m (9.2ft), 250V/10A, IEC320/C13, IEC320/C20	2	2	2	Select Proper Line cord if not connected to IBM PDU
Mfg		CAT5E SWITCH CABLE, BLUE (2M)	1	1	*	(Required) For OS 1G Network (Recommended 2M length min)
Required for Mfg	Cables	CAT5E SWITCH CABLE, GREEN (2M)	1	1	*	(Required) For IPMI 1G Network (Recommended 2M length min)
De l		EKC1 3M- Active Twinax cable	4	4	*	(Required) For High Speed Network (Recommended 2M length min)
edn		No rack integration	1	1	1	
r	Misc	Country specific FCs (keyboards, language groups) are selectable	1	1	1	User select
		Shipping and Handling	1	1	1	User select

Ceph Node

		T-Shirt Sizes (example)		Solutio	on Rule	
МТ	Model	Description	Mfg Config #1	Min	Max	Comments
Custom	ized Perso	onality: S822C Server Config:Ceph Node				
8001	22C	ServerConfig- S822C	3	3	**	This section Defined the <u>Common confiq of the Server node</u> (in group servers) - Next Section : Defined any unique config that you may need (Optional)
	Solution ID	Solution Specify Code (for grouping only)	1	1	1	Optional FC used to specify Solution specific config Need econfig support
	Pod Type	Compute Server Type 2 Specify Code	1	1	1	Optional FC used to specify node type/ config Need econfig support
	Processor	EKP4 EKP4 (PS)8-core 3.32 GHz POWER8 processor	2	1	2	
	Memory	EKM2 (PS) 16GB DDR4 MEMORY DIMM	8	4	16	
	Bezel	EKB9 2S base system with LFF high function drive midplane (NVMe d	1	1	1	type (SAS)
	Storage	Integrated Sata controller	1	1	1	Build-in HDDs: Integrate SATA controller + Optional SAS /RAID Controller
	Adapter	EKEB PCIe3 SAS RAID Controller w/cable for 2U server, based on LSI 30	1	1	1	Optional - Exteral SAS adapter for Expansion SAS drawer
		EKS1 240 GB, SFF SATA SSD; 1.2 Disk Writes Per Day (DWPD) kit	1	0	2	OS Boot Disk
	Disks	EKS1 240 GB, SFF SATA SSD; 1.2 Disk Writes Per Day (DWPD) kit	2	0	4	If SAS drive is selected, please choose Bezel Assembly to match drive size (.5"
		EKDD 8TB 3.5" SATA HDD	9	0	4	If SAS drive is selected, please choose Bezel Assembly to match drive size (.5"
822C	Server (Ba	se config) Required Inter-connect				
<u>.s.</u>	Network	EKA2 (PS) INTEL 82599ES 2-PORT SFP+ 10G GEN2 x8 STANDARD	2	2	3	(Required) For High Speed Network
Genesis	Adapter		0	0	3	Section IO device (optional)
Mfg Ge	Power	EKLJ (PS #6665) PWR CBL DRWR TO IBM PDU, 2.8m (9.2ft), 250V/10A, IEC320/C13, IEC320/C20	2	2	2	Select Proper Line cord if not connected to IBM PDU
		CAT5E SWITCH CABLE, BLUE (2M)	1	1	*	(Required) For OS 1G Network (Recommended 2M length min)
Required for	Cables	CAT5E SWITCH CABLE, GREEN (2M)	1	1	*	(Required) For IPMI 1G Network (Recommended 2M length min)
uire		EKC1 3M- Active Twinax cable	4	4	*	(Required) For High Speed Network (Recommended 2M length min)
Req	Misc	Country specific FCs (keyboards, language groups) are selectable	1	1	1	User select
-		Shipping and Handling	1	1	1	User select

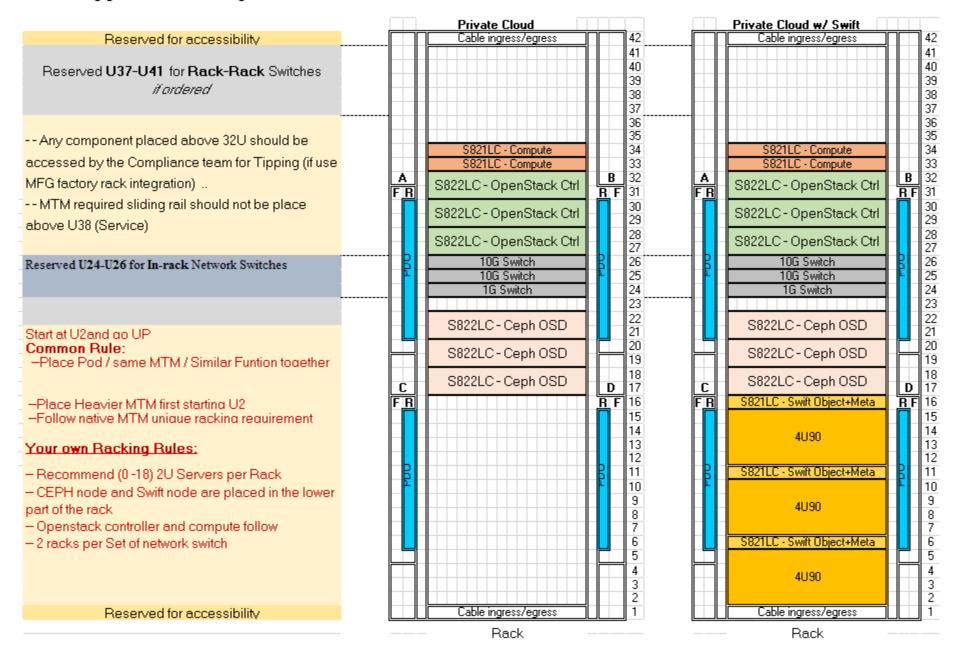
Controller Node

			T-Shirt Sizes (example)	Solution Rule		
МТ	Model	Description	Mfg Config #1	Min	Max	Comments
ustom	ized Perso	onality: S822C Server Config:Controller Node				
8001	22C	ServerConfig- S822C	3	3	**	This section Defined the <u>Common config of the Server node</u> (in group servers) Next Section: Defined any unique config that you may need (Optional)
	Solution ID	Solution Specify Code (for grouping only)	1	1	1	Optional FC used to specify Solution specific config Need econfig support
	Pod Type	Compute Server Type 2 Specify Code	1	1	1	Optional FC used to specify node type/ config Need econfig support
	Processor	EKP5 10-core POWER8 2.92 GHz	2	1	2	
	Memory	EKM2 (PS) 16GB DDR4 MEMORY DIMM	8	4	16	
	Bezel	EKB5 (PS) 2S BRIGGS LFF DIRECT ATTACH FAB ASSEMBLY	1	1	1	hveed to Choose drive assembly to match your Disks (LFF/SFF) and Controler
	Storage	Integrated Sata controller	1	1	1	Build-in HDDs : Integrate SATA controller + Optional SAS /RAID Controller
	Adapter		0	0	1	Optional - Exteral SAS adapter for Expansion SAS drawer
	Disks	EKS5 1.9 TB, SFF SATA SSD; 1.2 DWPD Kit	1	0	2	OS Boot Disk
	DISKS		0	0	4	If SAS drive is selected, please choose Bezel Assembly to match drive size (.5
322C	Server (Ba	se config) Required Inter-connect				
S	Network	EKA2 (PS) INTEL 82599ES 2-PORT SFP+ 10G GEN2 x8 STANDARD	2	2	3	(Required) For High Speed Network
Genesis	Adapter		0	0	3	Section IO device (optional)
	Power	EKLJ (PS #6665) PWR CBL DRWR TO IBM PDU, 2.8m (9.2ft), 250V/10A, IEC320/C13, IEC320/C20	2	2	2	Select Proper Line cord if not connected to IBM PDU
M		CAT5E SWITCH CABLE, BLUE (2M)	1	1	*	(Required) For OS 1G Network (Recommended 2M length min)
Required for Mfg	Cables	CAT5E SWITCH CABLE, GREEN (2M)	1	1	*	(Required) For IPMI 1G Network (Recommended 2M length min)
uire		EKC1 3M- Active Twinax cable	4	4	*	(Required) For High Speed Network (Recommended 2M length min)
Seq	Misc	Country specific FCs (keyboards, language groups) are selectable	1	1	1	User select
ш	IIIISC	Shipping and Handling	1	1	1	User select

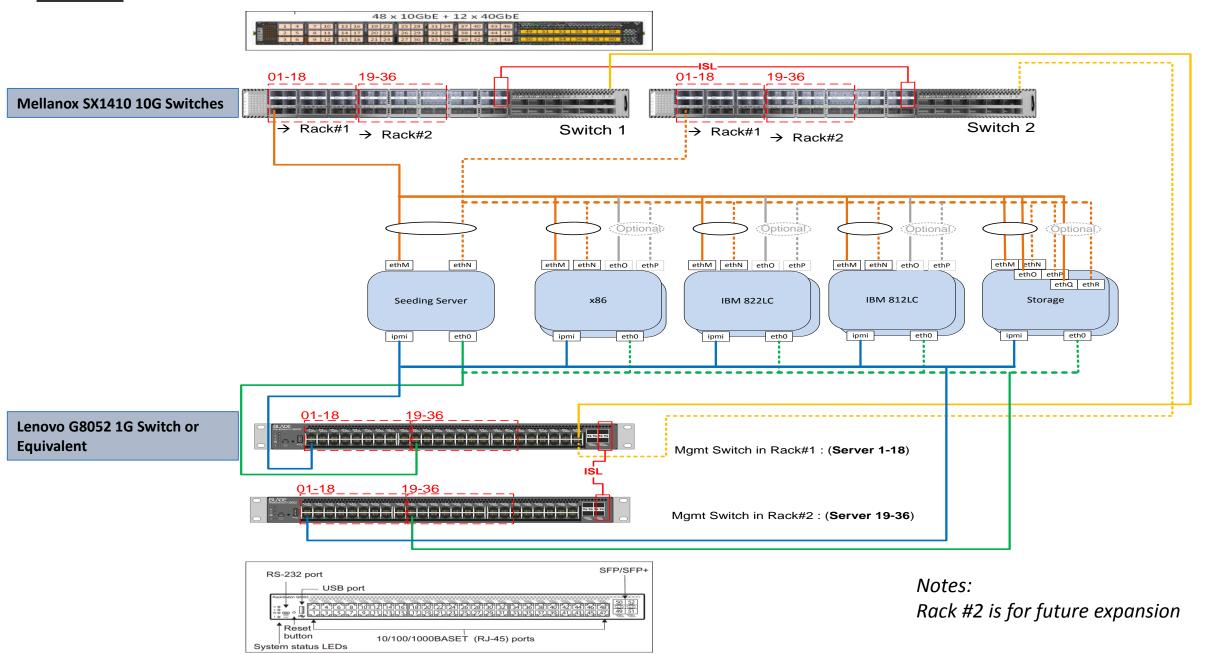
Switches

					Config #1	Perf	Rack
	MT	Model	FC	Description		Min	Max
16 M	7120	48E		Lenovo G8052 1GbE Switch (48x 1GbE ports + 4x 10GbE ports)	1	1*	1
9			1118	CAT5E SWITCH CABLE, 3M, YELLOW	1	1	
Mgmt (Base)			6577	PWR CBL, DRWR TO IBM PDU, MFG SEL LENGTH, 200-240V/10A, IEC320/C13, IEC320/C14	2	2	2
se)				Include all existing FCs; except FCs 0010, 0011, 0712, 0714, EGSx, EHKx, EHLA, 4649 (Rack Integration Services), and 0456 (Customer Specified Placement); do not include these FCs.			
106	8831	S48		Mellanox 141010GB Switch (48x10G + 12x40G)	2	2	2
Data			EDT6	1U AIR DUCT FOR S48	1	1	1
a				Include all existing FCs; except FC 4649, FC 0456 (Customer Specified Placement) and ESC1 (Shipping & Handling), do not include these FCs	1	1	1

Suggested Racking Rule



Network



Cabling

001-12C/22C	Stratton/Briggs			
	adapter	PCI slot	Port	Cabling
	10GbE	slot 3	T1	yes
Primary NIC	TOGDL	5101.5	T2	yes
Optional	10GbE	slot 4	T1	yes
NIC	TUGDE	5101 4	T2	yes
Mgmt-OS	1GbE	LOM	T1	yes
BMC	1GbE	LOM	impi	yes

Cable	P ₂ P	Label	for H	TOR#1-2

		10GbE	10GbE	10GbE	10GbE	1GbE	1GbE
		H_TOR_1	H_TOR_2	H_TOR_2	H_TOR_1	M_TOR_1	M_TOR_1
Server#	Name <opt></opt>	P2P Data network Cable Label	P2P Mgmt RJ4-5 Cable Label	P2P IPMI RJ-45 Cable Label			
1		1A/SVR1/slot 3/T1 ⇔H_TOR_1/Port1	1A/SVR1/slot 3/T2 ⇔ H_TOR_2/Port1	1A/SVR1/slot 4/T1 \Leftrightarrow H_TOR_2/Port4	1A/SVR1/slot 4/T2 \Leftrightarrow H_TOR_1/Port4	1A/SVR1/LOM/T1 \Leftrightarrow M_TOR_1/Port1	1A/SVR1/LOM/impi <> M_TOR_1/Port4
2		1A/SVR2/slot 3/T1 \Leftrightarrow H_TOR_1/Port2	1A/SVR2/slot 3/T2 \Leftrightarrow H_TOR_2/Port2	1A/SVR2/slot 4/T1 \Leftrightarrow H_TOR_2/Port5	1A/SVR2/slot 4/T2 \Leftrightarrow H_TOR_1/Port5	1A/SVR2/LOM/T1 \Leftrightarrow M_TOR_1/Port2	1A/SVR2/LOM/impi <> M_TOR_1/Port5
3		1A/SVR3/slot 3/T1 ⇔H_TOR_1/Port3	1A/SVR3/slot 3/T2 \Leftrightarrow H_TOR_2/Port3	1A/SVR3/slot 4/T1 \Leftrightarrow H_TOR_2/Port6	1A/SVR3/slot 4/T2 \Leftrightarrow H_TOR_1/Port6	1A/SVR3/LOM/T1 \Leftrightarrow M_TOR_1/Port3	1A/SVR3/LOM/impi M_TOR_1/Port6
4		1A/SVR4/slot 3/T1 \Leftrightarrow H_TOR_1/Port7	1A/SVR4/slot 3/T2 \Leftrightarrow H_TOR_2/Port7	1A/SVR4/slot 4/T1 \Leftrightarrow H_TOR_2/Port10	1A/SVR4/slot 4/T2 \Leftrightarrow H_TOR_1/Port10	1A/SVR4/LOM/T1 \Leftrightarrow M_TOR_1/Port7	1A/SVR4/LOM/impi \Leftrightarrow M_TOR_1/Port10
5		1A/SVR5/slot 3/T1 \Leftrightarrow H_TOR_1/Port8	1A/SVR5/slot 3/T2 \Leftrightarrow H_TOR_2/Port8	1A/SVR5/slot 4/T1 \Leftrightarrow H_TOR_2/Port11	1A/SVR5/slot 4/T2 \Leftrightarrow H_TOR_1/Port11	1A/SVR5/LOM/T1 \Leftrightarrow M_TOR_1/Port8	1A/SVR5/LOM/impi M_TOR_1/Port11
6		1A/SVR6/slot 3/T1 \Leftrightarrow H_TOR_1/Port9	1A/SVR6/slot 3/T2 \Leftrightarrow H_TOR_2/Port9	1A/SVR6/slot 4/T1 \Leftrightarrow H_TOR_2/Port12	1A/SVR6/slot 4/T2 \Leftrightarrow H_TOR_1/Port12	1A/SVR6/LOM/T1 \Leftrightarrow M_TOR_1/Port9	1A/SVR6/LOM/impi M_TOR_1/Port12
7		1A/SVR7/slot 3/T1 ⇔H_TOR_1/Port13	1A/SVR7/slot 3/T2 \Leftrightarrow H_TOR_2/Port13	1A/SVR7/slot 4/T1 \Leftrightarrow H_TOR_2/Port16	1A/SVR7/slot 4/T2 \Leftrightarrow H_TOR_1/Port16	1A/SVR7/LOM/T1 \Leftrightarrow M_TOR_1/Port13	1A/SVR7/LOM/impi M_TOR_1/Port16
8		1A/SVR8/slot 3/T1 ⇔H_TOR_1/Port14	1A/SVR8/slot 3/T2 \Leftrightarrow H_TOR_2/Port14	1A/SVR8/slot 4/T1 \Leftrightarrow H_TOR_2/Port17	1A/SVR8/slot 4/T2 \Leftrightarrow H_TOR_1/Port17	1A/SVR8/LOM/T1 \Leftrightarrow M_TOR_1/Port14	1A/SVR8/LOM/impi M_TOR_1/Port17
9		1A/SVR9/slot 3/T1 ⇔H_TOR_1/Port15	1A/SVR9/slot 3/T2 \Leftrightarrow H_TOR_2/Port15	1A/SVR9/slot 4/T1 \Leftrightarrow H_TOR_2/Port18	1A/SVR9/slot 4/T2 \Leftrightarrow H_TOR_1/Port18	1A/SVR9/LOM/T1 \Leftrightarrow M_TOR_1/Port15	1A/SVR9/LOM/impi M_TOR_1/Port18
10		1A/SVR10/slot 3/T1 \Leftrightarrow H_TOR_1/Port19	1A/SVR10/slot 3/T2 \Leftrightarrow H_TOR_2/Port19	1A/SVR10/slot 4/T1 \Leftrightarrow H_TOR_2/Port22	1A/SVR10/slot 4/T2 \Leftrightarrow H_TOR_1/Port22	1A/SVR10/LOM/T1 \Leftrightarrow M_TOR_1/Port19	1A/SVR10/LOM/impi \Leftrightarrow M_TOR_1/Port22
11		1A/SVR11/slot 3/T1 \Leftrightarrow H_TOR_1/Port20	1A/SVR11/slot 3/T2 \Leftrightarrow H_TOR_2/Port20	1A/SVR11/slot 4/T1 \Leftrightarrow H_TOR_2/Port23	1A/SVR11/slot 4/T2 \Leftrightarrow H_TOR_1/Port23	1A/SVR11/LOM/T1 \Leftrightarrow M_TOR_1/Port20	1A/SVR11/LOM/impi \Leftrightarrow M_TOR_1/Port23
12		1A/SVR12/slot 3/T1 ⇔ H_TOR_1/Port21	1A/SVR12/slot 3/T2 \Leftrightarrow H_TOR_2/Port21	1A/SVR12/slot 4/T1 \Leftrightarrow H_TOR_2/Port24	1A/SVR12/slot 4/T2 \Leftrightarrow H_TOR_1/Port24	1A/SVR12/LOM/T1 \Leftrightarrow M_TOR_1/Port21	1A/SVR12/LOM/impi \Leftrightarrow M_TOR_1/Port24
13		1A/SVR13/slot 3/T1 \Leftrightarrow H_TOR_1/Port25	1A/SVR13/slot 3/T2 \Leftrightarrow H_TOR_2/Port25	1A/SVR13/slot 4/T1 \Leftrightarrow H_TOR_2/Port28	1A/SVR13/slot 4/T2 \Leftrightarrow H_TOR_1/Port28	1A/SVR13/LOM/T1 \Leftrightarrow M_TOR_1/Port25	1A/SVR13/LOM/impi \Leftrightarrow M_TOR_1/Port28
14		1A/SVR14/slot 3/T1 \Leftrightarrow H_TOR_1/Port26	1A/SVR14/slot 3/T2 \Leftrightarrow H_TOR_2/Port26	1A/SVR14/slot 4/T1 \Leftrightarrow H_TOR_2/Port29	1A/SVR14/slot 4/T2 \Leftrightarrow H_TOR_1/Port29	1A/SVR14/LOM/T1 \Leftrightarrow M_TOR_1/Port26	1A/SVR14/LOM/impi \Leftrightarrow M_TOR_1/Port29
15		1A/SVR15/slot 3/T1 \Leftrightarrow H_TOR_1/Port27	1A/SVR15/slot 3/T2 \Leftrightarrow H_TOR_2/Port27	1A/SVR15/slot 4/T1 \Leftrightarrow H_TOR_2/Port30	1A/SVR15/slot 4/T2 \Leftrightarrow H_TOR_1/Port30	1A/SVR15/LOM/T1 \Leftrightarrow M_TOR_1/Port27	1A/SVR15/LOM/impi \Leftrightarrow M_TOR_1/Port30
16		1A/SVR16/slot 3/T1 \Leftrightarrow H_TOR_1/Port31	1A/SVR16/slot 3/T2 \Leftrightarrow H_TOR_2/Port31	1A/SVR16/slot 4/T1 \Leftrightarrow H_TOR_2/Port34	1A/SVR16/slot 4/T2 \Leftrightarrow H_TOR_1/Port34	1A/SVR16/LOM/T1 \Leftrightarrow M_TOR_1/Port31	1A/SVR16/LOM/impi \Leftrightarrow M_TOR_1/Port34
17		1A/SVR17/slot 3/T1 \Leftrightarrow H_TOR_1/Port32	1A/SVR17/slot 3/T2 <> H_TOR_2/Port32	1A/SVR17/slot 4/T1 <> H_TOR_2/Port35	1A/SVR17/slot 4/T2 \Leftrightarrow H_TOR_1/Port35	1A/SVR17/LOM/T1 \Leftrightarrow M_TOR_1/Port32	1A/SVR17/LOM/impi \Leftrightarrow M_TOR_1/Port35
18		1A/SVR18/slot 3/T1 <> H_TOR_1/Port33	1A/SVR18/slot 3/T2 \Leftrightarrow H_TOR_2/Port33	1A/SVR18/slot 4/T1 \Leftrightarrow H_TOR_2/Port36	1A/SVR18/slot 4/T2 <> H_TOR_1/Port36	1A/SVR18/LOM/T1 \Leftrightarrow M_TOR_1/Port33	1A/SVR18/LOM/impi \Leftrightarrow M_TOR_1/Port36