		T-Shirt Sizes (example)	Solution Rule	n Rule	
MT Model	Description	Mfg Config #1	Min	Max	Comments
ххх хххх	Solution MTM				n/a
intomired Borne	Customized Descendible: 6834C Control Config. 1 oto				
8348 21C	ServerConfig-S821LC		1		This section Defined the Common config of the Server node (in group servers) — Next
0.11.01.20					College of the colleg
Solution ID	Some shear, ende la Acrond out)	1	1	1	Optional FC used to specify solution specific comig Need econing support
Pod Type	Compute Server Type 2 Sheatly Code	1 1	1	1	Optional FC used to specify node type/ config Need econfig support
Processor	EP0A 8W P8 3.325/3.857GHZ PROC 190W/247W (VENICE W/TURISMO)	2	2	2	
Memory	EMSC 16GB 2-RANK DDR3 1.35V IS DIMMS 1600MHZ (1333MHz max in system)	16	16	91	
Bezel	n/a	-	-		12 LFF HDDs/SSDs Assembly
Storage	Integrated Sata controller	-	1		Build-in HDDs : Integrate SATA controller + Optional SAS /RAID Controller
Adapter		0	0	1	Optional - Exteral SAS adapter for Expansion SAS drawer
Dieko	ELD2 1TB 7200 RPM SATA HDD BARE DRIVE	_	10		OS Boot Disk (back side) +12 HDD/SSDs front side
Ciana		0	0		Optional HDDs/SSDs
821C Server (Bas	S821C Server (Base config) Required Inter-connect				
Network	ENOT QUAD E'MET (2X1 + 2X10 10Gb) PCle Gen 2 X8/SHORT LP-Fiber	1	***		(Required) For High Speed Network
Adapter		0	0	37.8	Some adapter Max config 1/3/4 See econfig rule
Power	EKLJ (PS #6665) PWR CBL DRWR TO IBM PDU, 2.8m (9.2ft), 250V/10A,	2	2	2	Select Proper Line cord if not connected to IBM PDU
Constitution of the last	CATSE SWITCH CABLE, BLUE (2M)	, T	4	10	(Required) For OS 1G Network (Recommended 2M length min)
Cables	CATSE SWITCH CABLE, GREEN (2M)	*		1	(Required) For IPMI 1G Network (Recommended 2M length min)
	EN02 3M- Active Twinax cable	2	2	2	(Required) For High Speed Network (Recommended 2M length min)
	No rack integration	1.	1		
	Country specific ECs (keyboards, language groups) are selectable	1	-		User select
	control absence . On treatment of Sanda Standard at a sectionary				

			T-Shirt Sizes	Solution Bule	D	
			(example)			
МТ	Model	Description	Default	Min Ma	Max	Comments
хох хоох	*	Solution MTM	-	_	-	
ustomized	Persona	Customized Personality: S822LC Server Config 1etc				
8335	GTB	S822LC (8335)	4	4	16	This section Defined the <u>Common conflig of the Server node</u> (in group servers) — Next Section: Defined any unique conflig that you may need (Optional)
S	Solution ID	Solution Specify Code (for grouping only)	_	_	_	Optional FC used to specify Solution specific config Need econfig support
_	Pod Type	Compute Server Type 2 Specify Code	1	1	_	Optional FC used to specify node type/ config Need econfig support
ol l	Processor	EP05 10W P8' 2.860/3.492GHZ PROC 192/247W (DELLOVO)	2	2	2	
	Memory	EM58 128GB (4X32GB) IS RDIMMS (1.2V) 1600MHZ 4GBIT DDR4 DRAM	8	8	8	
	Disks	ES6A 2TB 7200 RPM 512E SATA HDD IN MODIFIED GEN3 CARRIER (SFF	2	2	2	OS Boot Disk
_	NVmE PCI		0	0	0	
	GPU	EC4F COMPUTE INTENSIVE ACCELERATOR, GPU, Slot C1/4/7/9	1	1	1	
S822C Server (Base config)	er (Base	config) Required Inter-connect				
	Network	ENOV QUAD E'NET (2X1 + 2X10 10Gb) PCIe Gen 2 X8/SHORT LP-Twinax	1	1		(Required) For High Speed Network
	Adapter		0	0	_	optional second type of Network adapter
	Power	6665 PWR CBL DRWR TO IBM PDU, 2.8m (9.2ft), 250V/10A, IEC320/C13,	2	2	. 2	Select Proper Line cord if not connected to IBM PDU
	Cables	CATSE SWITCH CABLE, GREEN (2M)		<u> </u>	-	(Required) For IPMI 1G Network (Recommended 2M length min)
		EKC1 3M- Active Twinax cable	2	2	2	[Required] For High Speed Network (Recommended 2M length min)
		No rack integration				
		Country specific FCs (keypoards, language groups) are selectable	_	_	_	User select
		Shipping and Handling	_	_	_	User select

General R	tules		Comments						
Note (1)			e-config to present to the customer the {list of MTMs and FCs below} defining the default, minimum and maximum configuration. The rules listed below for the HPC Cluster solution supersede the current announce material rules for the stand-alone server.						
			* Top and Bottom 1U of rack must always be open (FCs ER1T & ER1B).  *For optional switches, priority order starting as follows:  1) 7120-64C 8828-E36  2) 8831-S48 8831-NF2  3) 8831-S48 8831-NF2  3) 8831-S48 8831-NF2						
Note (2)			3) 8831-NF2 8831-F96 4) 8831-F96 7120-64C 5) 8828-536 8831-S48 6) 7120-48E * If no switches are ordered, leave these locations 41, 40, 39, & 38 reserved in first			7100-64C) 8831-848) 7100-68E 8631-862			
							tches (F36, 64C, S46, 48E), and will need to be left open. 8631-NF2 or 8628-E36 can t If22 + 8247-22L side by side is OK, but E36 + 48E is not allowed, need a gap between !		
Note (3)			Config #1: Lenovo 1G SW + Lenovo 10G switch, Config #2: Lenovo 1G S	SW + Mella	nox 10G SI	W,	Config #3: Lenovo 1G + Melianox IB Switch, Config #4: Melianox 1G + Melianox 1		
Note (4)									
Note (5)							į		
				Config	Per	Rack			
MT	Model	FC	Description	#1	Min	Max	Comments		
7120	48E	10	Lenovo G8052 1GbE Switch (48x 10GbE ports + 4x 10GbE ports)	1	1	1	* Qty 1 required per rack. An additional switch is needed, beyond the qty 1 per		
		1118	CATSE SWITCH CABLE, 3M, YELLOW	1	1	1			
		6577	PWR CBL, DRWR TO IBM PDU, MFG SEL LENGTH, 200-240V/10A, IEC320/C13, IEC320/C14 Include all existing FCs; except FCs 0010, 0011, 0712, 0714, EGSx, EHKx, EHLA,	2	2	2			
			4649 (Rack Integration Services), and 0456 (Customer Specified Placement); do not include these FCs.				Note: FCs ESC0 & ESC1 are not announced and not applicable for switches		
8831	S52		Mellanox 1G Switch	0	0	0	* Qty 1 required per rack. An additional switch is needed, beyond the qty 1 per		
		1118 465x	CAT5E SWITCH CABLE, 3M, YELLOW Rack Indicator - Rack #x	1	1	-	FC 4651 min qty = 1. Use 4652 to 4666 min qty =1 for additional racks		
		6577	PWR CBL, DRWR TO IBM PDU, MFG SEL LENGTH, 200-240V/10A, IEC320/C13, IEC320/C14	2	2	2	PG 460 Filmingly = 1. Use 4602 to 4600 filmingly = 1 for additional racks		
			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.				Note: FCs ESC0 & ESC1 are not announced and not applicable for switches		
7120	64C		Lenovo G826410GB Switch (48x10G + 4x40G)	1	1*	1			
		Solution ID Pod Type	Solution Specify Code (for grouping only)	1	1	1			
		1118	CAT5E SWITCH CABLE, 3M, YELLOW	1	1	1			
		EB28	IBM SFP+ SR TRANSCEIVER	1	1	1	1		
			Include all existing FCs; except FC 4649, FC 0456 (Customer Specified Placement) and ESC1 (Shipping & Handling), do not include these FCs	2	2	2			
8831	S48		Mellanox 141010GB Switch (48x10G + 12x40G)	0	0	0			
		EDT6	1U AIR DUCT FOR S48	1	1	1			
			Include all existing FCs; except FC 4649, FC 0456 (Customer Specified Placement) and ESC1 (Shipping & Handling), do not include these FCs	1	1	1			
8828	E36		EDR InfiniBand Switch	0	0	0	* Qty 1 required per rack. An additional switch is needed, beyond the qty 1 per		
			Solution Specify Code (for grouping only)	1	1	1	Need to announce FC on all MTMs in HPC Cluster		
		Pod Type 465x	Rack Indicator - Rack thr			-	JEC 4651 min city = 1. Use 4652 to 4666 min city =1 for additional racks.		
		EDT4	1U AIR DUCT	<u> </u>	1	<del>  i</del>	170 400 Thin qiy = 1. Use 4002 10 4000 him qiy = 1 lor additoriar facks		
			Include all existing FCs; except FCs 0010, 0011, 0712, 0714, EGSx, EHKx, EHLA, 4649 (Rack Integration Services), and 0456 (Customer Specified Placement); do				Note: FCs ESC0 & ESC1 are not announced & not applicable for switches. Power cable MFI BOMs and rail kit MFI BOMs are included with the 8828 & 8831 swi		
			not include these FCs.				÷ !		
			Depth Supplier IBM MTM Comments:  1) 24.75'(D) —Mellanox 1710 8831-NF2 - protrudes 50mm from the rear EIA sur 2) 27" (D)Mellanox SB7700 8828-E36 - greatest depth; Infiniband 3) 24.7" (D)Mellanox SX6036 8831-F36 - 2nd greatest remaining depth; Infinit 4) 19.0" (D)Lenovo G8264 7120-64C - 3rd greatest remaining depth; High Sp 5) 17.5" (D)Lenovo G8052 7210-46E - 4th greatest remaining depth; Mgmt Ne	and eed Eth	Speed Eth				
			16.8" (D)Leriovo Gousz 72 10-40E - 4th greatest remaining depth; Mgmt Ne     16.8" (D)Mellanox 1410 8831-S48 - 5th greatest remaining depth; High S		new assemi	bly>			

