

Introduction

- The PureFlex solution is pre-defined and integrated, although minimal changes are allowed. As such, you have to be careful about what changes you make. It is highly suggested that you define your nodes during the initial node selections. If adding nodes after the initial node selections, be sure to validate the chassis power supply and fan selections.
- It is acceptable to make changes to the HDD, CPU and Memory of the nodes. For the switches, SFPs and cabling changes are not recommended.
- Any changes to the configuration that are made are subject to rules checking in the configurator, which are defined by the PureFlex solution definition.

x-config - Starter Screen

On the x-config Starter screen, choose "PureFlex System" and click the "New configuration" button.

🛓 x-config - Starter	
System x and Cluster Solutions Configurator (x-config)	New configuration
Note: All prices are estimates based on or before the latest update (06 January 2015)	Help
	Exit Configuration type Select PureFlex System for solutions featuring the PureFlex System chassis and components (Cluster support is OFF). Intelligent Cluster Help me decide General Purpose PureFlex System

Note: This presentation was validated on 13 January 2015. Images in this presentation may be slightly different from production as the configurator is continually updated to reflect new features and product selections.

Choose your country and the PureFlex System you would like to configure. In this training module we will configure the PureFlex System (single chassis) for the country selection of "United States".

PureFlex System Selection	
Create a valid PureFlex configuration by c	ompleting the selections below and clicking the "Configure" button.
Country:	United States
PureFlex System:	Select one Select one PureFlex System (single chassis) IBM PureFlex Solution for SmartCloud Desktop Infrastructure (VDI)
	Configure Cancel

After previous screen closes, a pop-up of the template will display for building the base PureFlex System configuration. Start by choosing a Rack or no Rack ("None"). For this example I am selecting "PureFlex System 42U Rack".

PureFlex System Selection		L X
Create a valid PureFlex configuration by com	pleting the selections below and clicking the "Configure" button.	
Country:	United States	-
PureFlex System:	PureFlex System (single chassis)	
t is recommended that you configure all the of power supplies and fans.	e nodes in the chassis before leaving this page, as this will allow automatic configuration	
PureFlex System rack:	Standard 42U Rack (Standard Door)	=
Rack power distribution:	None 1	
Chassis networking configuration:	Select one	
Please select a Chassis networking configura	tion type.	
Storage controller:	Storwize V7000 Quantity: 1 (maximum 2)	
Storage expansion units for the first controller:	0 (maximum 20)	
Storage expansion units for the second controller:	0 (maximum 20)	
Drive layout (all enclosures):	22 HDD, 2 SSD	
HDD list:	300GB, 15K	
SSD list:	200GB	
Interreted custome managements	Flex System Manager	

Next choose your Rack power distribution. For this training module I am selecting "Three Phase". Note: The selection of the line cords into the rack PDUs and the line cords from each rack PDU to the components in the rack are automatically pre-selected and pre-configured for you.

Country:	United States	•	
PureFlex System:	PureFlex System (single chassis)	•	
t is recommended that you configure all th of power supplies and fans.	e nodes in the chassis before leaving this p	page, as this will allow automatic configuration	
PureFlex System rack:	Standard 42U Rack (Standard Door)	•	
Rack power distribution:	Three Phase (60A and above)	•	
Chassis networking configuration:	Single Phase (32A and below) Cingle Phase (60A and above) Three Phase (60A and above)		
Please select a Chassis networking configura	ation type.		
Storage controller:	Storwize V7000	▼ Quantity: 1 (maximum 2)	
Storage expansion units for the first controller:	0 * (maximum 20)		
Storage expansion units for the second controller:	0 (maximum 20)		
Drive layout (all enclosures):	22 HDD, 2 SSD	•	
HDD list:	300GB, 15K	•	
	200GB	*	

Next choose your Chassis networking configuration. For this training module I am selecting "Converged Networking (FCoE)".

Create a valid PureFlex configuration by co	mpleting the selections below and clicking the "Configure" b	utton.
Country:	United States	
PureFlex System:	PureFlex System (single chassis)	•
It is recommended that you configure all of power supplies and fans.	the nodes in the chassis before leaving this page, as this w	vill allow automatic configuration
PureFlex System rack:	Standard 42U Rack (Standard Door)	=
Rack power distribution:	Three Phase (60A and above)	
Chassis networking configuration:	Select one	
Please select a Chassis networking config	Standard Networking (FCoE)	
Storage controller:	Storwize V7000 🗸 Qua	antity: 1 (maximum 2)
Storage expansion units for the first controller:	0 (maximum 20)	
Storage expansion units for the second controller:	0 (maximum 20)	
Drive layout (all enclosures):	22 HDD, 2 SSD	
HDD list:	300GB, 15K	
SSD list:	200GB	
Integrated pustoms managements	Flex System Manager	

Next choose your Integrated systems management. By default the "Flex System Manager" will be selected, but you could select "None".

Country:	United States		
PureFlex System:	PureFlex System (single chassis)	v	
is recommended that you configure all th f power supplies and fans.	ne nodes in the chassis before leaving this	page, as this will allow automatic configuration	
PureFlex System rack:	Standard 42U Rack (Standard Door)	•	=
Rack power distribution:	Three Phase (60A and above)	•	
Chassis networking configuration:	Converged Networking (FCoE)	v	
storage controller:	Storwize V7000	▼ Quantity: 1 (maximum 2)	
Storage expansion units for the first controller:	0		
rive layout (all enclosures):	22 HDD, 2 SSD	~	
IDD list:	300GB, 15K		
SD list:	200GB		
ntegrated systems management:	Flex System Manager		
A total of 14 single-wide nodes or 7 double-	wide r None	anowed. Combinations can vary based on node	

Next select the Flex System nodes needed for the solution. In this example I selected one x220, one x240 and one x440. It is recommended you select the correct number of nodes at this point in the configuration, so that the proper number of chassis PSUs and fans are automatically placed in the order. You can always change/add/remove nodes during the configuration process but you may manually have to add PSUs and fans. Click "Configure".

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itegrated systems management:	Flex System Manager 💌		
A total of 14 single-wide nodes or 7 double-wike selections. At least 1 compute node must be ind	nodes including Flex System Manager (if selected) is allowed. Combinations can vary based on node ided in the configuration.		
lex System x220 compute node:	1 (maximum 10)		
lex System x222 compute node:	0 + (maximum 9)		
lex System x240 compute node:	1 (maximum 10)		
lex System x440 compute node:	1 (maximum 5)		
lex System x480 compute node (2 slots):	0 - (maximum 4)		
lex System x480 compute node (4 slots):	0 (maximum 2)		
lex System x880 compute node (2 slots):	0 (maximum 4)	=	
lex System x880 compute node (4 slots):	0 ⁺ / _× (maximum 2)		
lex System x880 compute node (8 slots):	0 (maximum 1)		
PU count per x220/x222/x240 node:	1 (maximum 2)		
PU selection:	Virtualization 💌		

After clicking "Configure" on the previous screen, the main configuration window will display. Node configuration, excluding the adding of CPU, HDD and Memory, is set to a minimum and may need to be altered to fit specific workloads. In general, rack and chassis components like PSUs, fans, switches, SFPs, and cabling should not be modified. Doing so might cause warnings in your PureFlex configuration which must be manually be corrected. When node modifications are complete, then the configuration is ready for saving and exporting. For this training module we will make additions and modifications, see the following slides.



If you need to make changes, right-click on the chassis and several options will display, including "Add Node", "Edit Node", "Remove Node", and "Edit" (see below). For this example I will select "Edit Node' and choose the x240.



Here I am making some changes to the x240 node. x-config is rules-based, so any changes may cause error messages to appear. If any red X error messages appear, you must clear them before saving and proceeding.

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Save Cancel			
Save Cancel			
Save Cancel			-
	Save Cancel		

Now I will move to the "Storage options" tab for the x240. Here I added two IBM 1TB HDDs.

* x-config - New configuration	n	
File Preferences Rules Act	ctions View Help	
Item view		
View/update the configuration of	f a selected item. Configured price: ~ 9,710 USD	
Base item:	[8737] Flex System node x240 Base Model Vises 1 slot)	
Model:	8737 AC1 Model 🔹	
Item label: 21	185	
for parts that do not have an a	availability classification please refer to the Standard Leadtime Table 🗢 View table	
Standard features and service	ces Storage options Expansion options Software Original selections vs. Currently selected products	
		^
'Integrated RAID ' (req. 1)		
[5977] Select Storage	devices - no IBM-configured RAID required	
'HDD 1.8 '		
B [A4KV] \$3500 80GB	B SATA 1.8" MLC Enterprise Value SSD for IBM System x (~ 299 USD) ▼ 0 → Show details ■ B ■ B	
SEE Slim SAS SATA '		
SIT SIII SAS SATA		
@ [A1P3] IBM 1TB 7.2	/K 6Gbbs NL SAS 2.5" SFF HS HDD (~ 619 USD)	
prin of ions rise rise	→ Show details	
NETADA Carrier Desfermance Ann		
105100 Series Performance Acc	Selerator (1 of 1)	
-	▼	
	<u> </u>	
		-
Save Cancel		

The last tab, "Original selections vs. Currently selected products", is a great way to track changes from iteration to iteration of the configuration for the x240. This tab and capability is available for all the components in this solution. Next, click "Save".

* x-config - New configuration			
File Preferences Rules Actions View	Help		
Item view			
View/update the configuration of a selected it	item. Con	figured p	rice: ~ 9,710 USD
Base item: [8737] Flex	System node x240 Base Model		Vuses 1 slot)
Model: 8737 AC1 M	Vodel 👻		
Item label: 2185			
f For parts that do not have an availability class	ssification, please refer to the Standard Le	eadtime Table	→ View table
Standard features and services Stora	age options Expansion options	Software	Original selections vs. Currently selected products
			Key: Removed (R) Added (A) Quantity changed (+/-) No change
Original selections	8	Change (Currently selected products
1x [A4PE] Intel Xeon Processor	E5-2650 v2 8C 2.6GHz 20	R	
2x [A30H] 8GB (1x8GB, 1Rx4, 1. 1x 8737 AC1 Model 1x Embedded 10Gb Virtual Fabri 1x [8737] Flex System comp 1x [A1BL] IBM Flex System Comp 1x [A4P5] IEM Flex System x240 1x [A2TD] IEM Virtual Fabric A	35V) PC3L-12800 CL11 ECC c Ethernet controller 140 Base Model Uute Node 2.5" SAS 2.0 Ba O Compute Node v2 - embed dvanced Software Upgrade	λ λ +	<pre>2x [A1P3] IBM 1TB 7.2K 6Gbps NL SAS 2.5" SFF HS HDD 1x [A4P8] Intel Xeon Processor E5-2697 v2 12C 2.7GHz 30MB Cache 1 12x [A3OH] 8GB (1x6GB, 1xx4, 1.35V) PC3L-12800 CL11 ECC DDR3 1600M 1x 8737 AC1 Model 1x Embedded 10Gb Virtual Fabric Ethernet controller 1x [8737] Flex System node x240 Base Model 1x [A1BL] IBM Flex System Compute Node 2.5" SAS 2.0 Backplane 1x [A4P5] IBM Flex System Compute Node v2 - embedded 10Gb Vi 1x [A2TD] IBM Virtual Fabric Advanced Software Upgrade (LOM) *</pre>

Save Cancel

Clicking "Save" as indicated on the previous slide returns you to the main configuration window. Next I will add another node, see the following slides. Note: Not shown is the ability to copy nodes after configuring the 1st node. For example, if you need 10x nodes with the same CPU SKU, memory and storage then build the 1st and then duplicate the 1st node nine times. You should not copy Chassis, as this will invalidate the solution and cause multiple errors.



Right-click on the chassis to get the pop-up box shown below. From here I will select "Add Node", then select "New Node". I could add an already configured node, like the x220.



After selecting "Add a new node...", the screen below displays. Now you can select the node type you would like to add. In this example I selected the "Flex System node x240 Base Model".

ile Preferences Ru	les Actior	is View	Help			
Item view For parts that do not	have an avail	ability classi	fication, please refer to the Standard Leadtime Table 🌩 View table			
View/update the config	uration of a s	selected ite	m.			
Base item:					•	
	Avai	Option	Description	Price		
Item label:		7903	Flex System Compute Node x480 X6 Base Model			
		7903	Flex System Compute Node X880 X6 Base Model			
		8731 AC1	Flex System node FSM_Base Model			
		7906	Flex System node x220 Base Model			
	_	7916	Elex System Node x222 Base Model			
		8737	Flex System node x240 Base Model			

Next go through the tabs to add the desired options and build the configuration as needed.

* x-config - New configuration	ion	
File Preferences Rules	Actions View Help	
Item view		
For parts that do not have an	navailability classification, please refer to the Standard Leadtime Table 🔹 View table	
view/update the conliguration	or a selected item. Comigured price. ~ 2,940 05D	
Base item:	[8737] Flex System node x240 Base Model	
Model:	8737 AC1 Model <	
Item label:	6968	
Marning messages exist and	d should be addressed before saving the selections.	
For parts that do not have an	n availability classification, please refer to the Standard Leadtime Table 🔿 View table	
Standard leatures and ser	Vices 1 Storage options Expansion options Software Original selections vs. Currently selected products	
Lenovo Services for Flex	System node x240 Base Model	
Help me decide		
Warranty and Maintenanc	e Option	
Standard	▼	
Maintanana Aanaanat		
Maintenance Agreement		
None selected	▼	=
Processor - x240 ' (max. 2)	are disabled. To view the researce places click more	
 A [Δ1CT] Intel Xeon Pr 	rane disabled. To view the reasons, please click <u>intere</u>	
'Memory - x240 ' (max. 24)		
6 Some of the selections	are disabled. To view the reasons, please click more	
[8923] 8GB (1x8GB,	2Rx4, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHz LP RDIMM (~ 285 USD) 🔻 1 🕂 Split	
		
Save Cancel		
Cancel		

Here on the "Expansion options" tab you need to set the "IBM PureFlex System Indicator", see below. Since this is not the primary node, you will need to select "PureFlex Foundation Expansion Configuration"; for the US it will be FC A5R9. Then click "Save". Take note of the "Item Label" value of "6968". Note: Recommendation is to add all nodes during initial node selection.

* x-config - New configur	ration	
le Preferences Rules	Actions View Help	
em view		
Warning messages exist a	and should be addressed before saving the selections.	
For parts that do not have	e an availability classification, please refer to the Standard Leadime Table 🔷 View table	
iew/update the configurati	ion of a selected item. Configured price: ~ 3,534 USD	
ase item:	[8737] Flex System node x240 Base Model VIses 1 slot)	
odel:	8737 AC1 Model 👻	
em label:	6968	
Warning messages exist a	and should be addressed before saving the selections.	
For parts that do not have	e an availability classification, please ref <mark>er to the Standard Leadtime</mark> Table 🐡 View table	
Standard features and s	services 🚹 Storage options Expansion options Software Original selections vs. Currently selected products	
-	\ `	
"IBM PureFlex System Indica [A5R9] PureFlex F	ator ' (1 of 1) Foundation Expansion Configuration	=
"VDI Server Indicator ' ('	(1 of 1)	
'RFID Tag ' (1 of 1) Save Cancel		

From the Chassis configuration window you need to select a Node Bay as a location for the new x240. In this example I placed the x240 in Node Bay 7, see below. If you want a node duplicated, then make sure to choose the x240 just configured in the previous slides. In this example it is "Node_6968".

💵 * x-config - New configurat	ion						
File Preferences Rules	Actions View Hel	р					
Item view							
View/update the configuration	of a selected item.		Configured pri	ce: ~	122,520 USD		
Base item:	[8721 HC1] IBM F	Tex System Ent	erprise Chassis Base Moo	del	•	(Uses 10 slo	xts)
Warning messages exist an	d should be addressed i	before saving the	e selections.				
Standard features and se	n availability classificati	on, please refer	Expansion options	Software	Cable options	Dowor	Original selections vs. Currently selected products
Stanuaru leatures anu se	Conngurab	ne leatures		SUILWATE	Cable options	Power	Original selections vs. currently selected products
					•		
Node Bay 9						Node Bay 10	
					-		
Node Bay 7					1	Node Bay 8	
					•		
Avail Option Descr	iption				Price		
New n	ode						
No 🖲 8737 (Node	_6968) Flex System n	node x240 Bas	e Model		~ 3,534 USD	Node Bay 6	=
8737 (Node	_2185) Flex System n	node x240 Bas	e Model		~ 9,710 USD		
B 7906 (Node	_5932) Flex System n 7488) Flex System n	10de x220 Bas 10de x440 Bas	e Model		~ 5,166 USD ~ 8 743 USD		
8731 AC1 (Node	_FSM_88) Flex System	m node FSM B	ase Model		~ 21,679 USD		
					·		
Node Bay 3					1	Node Bay 4	
E (No. 40, 5022) 57000	I Flave Constant and a						
в (моде_2925) [1906	J Flex System hode	XZZU Base MC	idel (~ 5,166 USD)		•		
			B B B B B 🔿	Show deta	ils		
							•
Save Cancel							

After adding the "Node_6968 ... x240" to Node Bay 7, click "Save". Note: Adding additional nodes will often require adding additional PSUs and fans to the chassis.

* x-config - New configuration	
e Preferences Rules Actions View Help	
am view	
w/update the configuration of a selected item. Configured price: ~ 126,054 USD	
se item: [8721 HC1] IBM Flex System Enterprise Chassis Base Model view (Uses 10 slots)	
m label: PureFlexSystem_32	
Warning messages exist and should be addressed before saving the selections.	
For parts that do not have an availability classification, please refer to the Standard Leadtime Table 🔿 View table	
Standard features and services Configurable features 🔥 Expansion options Software Cable options Power Original selections vs. Currently selected products	
Node Bay 7 Node Bay 8	
(❀ (Node 6968) 187371 Flex System node x240 Base Model (~ 3,534 USD)	
Node Bay 5 Node Bay 6	
(Node_7488) [7917] Flex System node x440 Base Model (~ 8,743 USD) Reserved: 5	
Node Bay 3 Node Bay 4	
B (Node 5932) [7906] Flex System node x220 Base Model (~ 5,166 USD) ▼	
B B B B → Show details	
Node Bay 1 Node Bay 2	
(Node_FSM_88) [8731 AC1] Flex System node FSM Base Model (~ 21,679 USD) 🗢 🙆 (Node_2185) [8737] Flex System node x240 Base Model (~ 9,710 USD)	
→ Show details	ow details
	•
Save Cancel	

A pop-up window will display where you can select how to save the changes. For this example I chose "All copies of this item", but any one of the selections would work in this single node change. Click "OK".

📭 * x-config - New configuration	
File Preferences Rules Actions View Help	
Item view	
View/update the configuration of a selected item. Configured price: ~ 126,153 USD	
Base item: [8721 HC1] IBM Flex System Enterprise Chassis Base Model VIses 10 slots)	
Item label: PureFlexSystem_32	
A Warning messages exist and should be addressed before saving the selections.	
1 For parts that do not have an availability classification, please refer to the Standard Leadtime Table 🔷 View table	
Standard features and services Configurable features Lepansion options Software Cable options Power Original selections vs. Currently selected products	
Save changes	
Node bay 9	
All copies of this item.	
All copies of this item for this rack only.	
Multiple copies of this item for this rack only. This copy of this item for this rack only.	
Node Bay 7	
(Node_6968) [8737] Flex System node x240 Base Model (OK Cancel	
	=
Node Bay 5 Node Bay 6	
B (Node_7488) [7917] Flex System node x440 Base Model (~ 8,743 USD) Reserved: 5	
B B B B B → Show details	
Node Bay 3 Node Bay 4	
■ (Node_5932) [7906] Flex System node x220 Base Model (~ 5,166 USD)	
BBBB → Show details	
Save Cancel	

After modifying the existing nodes and adding new nodes, you need to save the configuration. Make sure there are no RED X stop messages in the "Messages" tab (there are none in the image below). YELLOW yield messages are acceptable to proceed. Note: Before saving you may want to verify the System x Enterprise Solution Services in the "Non-racked items" tab, and increment the days if needed.



When you click "Save" a pop-up box will display to select where to save the file and to give it a "File Name'. My preferences are set to save to my Desktop. Lastly, click "Save configuration file".



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A pop-up window confirms that the save was successful. Click "OK".



Next is to export the configuration. When you click "Export", a "Format selection" pop-up window displays. Choose "Integrated by Lenovo". Then click "Continue".



In the "Output file selection" pop-up window, choose the appropriate format(s) for your country. In this example for the US, the selection is "TMF/SEO + CFReport/Excel format"; this is checked along with the default option of "Validate with SOVA...". The SOVA selection will verify that the configuration can be built. Click "Continue".

x-config - C:\Users\IBM_ADMIN\Desktop\GP_PureFle	x_Training_9Jan2015.cse		
Preferences Rules Actions View Help Nution: General Purpose	Total List Price: 154,908 USD	Country: United States	
Save + Export + Undo	Redo Configuration Availability: 📩 - Ships in 19	5 business days or less	
Save → Export → Undo oducts Racks Non-racked items elect a rack to vip Add new raci Add new Pur Rack_PureFlex Rack_PureFlex		5 business days or less	A 3 Phase PDU (~ 15 vis "C: Ships in 15 busi nt availability is "C: Ships nt availability is "C: Ships nt availability is "C: Ships nt availability is "C: Ships nt availability is "C: Ships lex nodes (MT 7917, 87 business of the state of the st
	Cancel UII Back	Continue III)	Inded for IBM PureFlex Sy More info re info

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Next select the directory to export files. As shown below, my preference is set to export to the Desktop. Click "Continue".

x-config - C:\Use	rs\IBM_ADMIN\Desktop\GP_PureFlex_Tra	aining_9Jan2015.cse		
File Preferences	Rules Actions View Help			
Solution: General P	urpose	Total List Price: 154,908 USD	Country: United States	
⇒ Save	⇒ Export ⇒ Undo	🔹 Redo Configuration Availability: 🛕 - Ships in 15 bus	iness days or less	
Products	Rac	ck view/update	Item view	
Racks Non-rac	cked items ⊽ l	Update the rack (Rack_PureFlexSystem_85)		
Select a rack to vie right. Right-click a	Im Export Wizard - Directory selection	Moony quantity Auto allocate		
actions. Add new racl	- Format selection	Directory selection	=	
→ Add new Pure	Output file selection Directory selection			
Rack_PureFlex	Filename entry Review selections	Please select a directory to save the exported file(s) to		
			nitored 60A 3 Phase PDU (~ 15	
		C:\Users\IBM_ADMIN\Desktop		
			t availability is "C: Ships in 15 busi	
			D the current availability is "C: Ships	
			P the current availability is "C: Ship:	
			ire that if Flex nodes (MT 7917, 87	
			hips in 15 business days or less."	
			recommended for IBM PureFlex Sy	
			Services More info	
			ability <u>More info</u>	
		Cancel 4iil Back	Continue III	
		1 Node_555 1		
		Node FSM 22 Node 2125		lonov

Next is "Filename entry". In this example since I to save the file first and provided the file name, the export file name will be the same (see below). You can change the filename if you want. Click "Continue".



Finally, click "Finish" if you are satisfied with the selections displayed in the "Review selection" pop-up window. Otherwise, click "Back" and make any needed changes.

File Preferences Rules Actions View Help Solution: Greenal Purpose Table List Price: 164,000 USD Country: United Dates * Save * Eport * Unito Review Refeators Products Products Review Refeators Review	x-config - C:\Users\IBM_ADMIN\Desktop\GP_PureFlex_Train	ning_9Jan2015.cse		
Selection Control Purpose 0 tal List Price: 154,004 UD Country: United Selection * Save * Book * Node * Rock Configuration Availability • Ships in 15 busines Production * Unida * Rock * Rock Funce Flex: System, 85 (= 133,800 USD) Select a rack to unit a selection * Rock view selections * Rock view selections * radio material selection * Add new Purpose Please review The selections Please review The selections * radio Please review The selections * radio Please review The selections * Add new Purpose Please review The selections Please review The selections * radio Please review The selections * Review selections Please review The selections * radio Please review The selections * radio Please PDU (- 15) * Third Sec - Critego visic tion * Unide with SUVA (Single Order Valadion Application) * radiability is "C. Ships in 15 busines days or rises * Unide Visic	File Preferences Rules Actions View Help			
See + Epot + Undo Reductor Configuration Availability: Add set view/pace Vidada the rack (Rack_PureFlexSystem_85) Reductor Vidada the rack (Rack_PureFlexSystem_85) Vidada the rack (Rack_PureFlexSystem_85) Reductor Vidada the rack (Rack_PureFlexSystem_85) Reductor Vidada the rack (Rack_PureFlexSystem_85) Vidada	Solution: General Purpose	Total List Price: 154,908 USD	Country: United States	
Products Beck verwydde Updathe track (Rack, PureFlex System, 85) Beck verwydde Updathe track (Rack, PureFlex System, 85) Beck verwydde Updathe track (Rack, PureFlex System, 85) Rack, PureFlex System, 85 (~ 138,800 USD) Rack and new Pau Add new Pau Review selection Review selection Review selection Flease review the selections made before pressing finish. Review selection Flease review the selection Cubersite s	→ Save → Export → Undo	Redo Configuration Availability: A - Ships in 15 bus	iness days or less	
Rack Non-zeked tens V Update the rack (Rack, PureFlex System, 25) Rack, PureFlex System, 25 (~ 132.800 USD) Seled a rack to with Right Call Export Wizard - Review selections Image: Rack Review selections Image: Rack Review selections addinew Part Order of the section Image: Review selections Image: Review selections Image: Review selections Review Selections Please review the selections made before pressing finish. Image: Review selections Image: Review Selections Review Selections Output file selection Image: Review Selections Image: Review Selections Review Selections Please review the selections made before pressing finish. Image: Review Selections Image: Review Selection Image: Review Selections Output file selection Image: Validate with SOVA (Single Order Validation Application) Image: Review Selection Image: Review Selection Image: Validate with SOVA (Single Order Validation Application) Image: Review Selection Image: Review Selection Image: Review Selection Image: Review Selection Image: Review Selection Image: Review Selection Image: Review Selection Image: Review Selection Image: Review Selection Image: Review Selection Image: R	Products	<pre>x view/update</pre>	Item view	
Beled a rack to we were acknown and the reverse selections a Add new Part A Add new Part Please review the selections Please review the selection Please review the selection Please review the selection Output fits election Please review the selection Please review the selection Output fits election Please review the selection Image: selection Imag	Racks Non-racked items	pdate the rack (Rack_PureFlex System_85)	Rack PureElexSystem 85 (~ 139 80)	
adions. • Add new Par • Presser review selections Review selections • Presser review the selections made before pressing finish. • Presser review the selections • New selections • Vaidate with SOVA (Single Order Vaidation Application) • Vaidate with SOVA (Single Order Vaidation) • Vaida	Select a rack to view details in the discount of the discount			
Add new Par Add new Par Res. PureFix Res. PureFix	actions. Format selection			=
 And new Purp Reck_PureFiex Prease review the selections made before pressing finish. Please review the selections made before pressing finish. Primat selection Interestion Validate with SOVA (Single Order Validation Application) ThilF/SEO - CFReportExcel format Urrectory selection C.Viewrilliam ADMINDesktop Fleiname entry I - OP_PureFiex_Training_Slan2015 Cancel Qui Back Finish 	Add new racl Output file selection	Review selections		8
Please review the selections made before pressing finish. Please review the selections Please review the selections Pormat selection Pormat selection Validate with SOVA (Single Order Validation Application) Validate with Sova (Single Order Validation) Validate with Sova (Single Order Validation) Validate with Sova (Single Order Validate With Sova (Single Order Validate With Sova (Single Order Validate With Sova	Add new Pure Directory selection			
Format selection Integrated by BM Output file selection • Validate with SOVA (Single Order Validation Application) • TMF/SEO - CReport/Excel format • availability is "C. Ships in 15 bus Directory selection • Culterry SM_ADMINDesktop Filename entry • o P_PureFlex_Training_Slan2015 • OP_PureFlex_Training_Slan2015 • Back • Cancel • III Back	Review selections	Please review the selections made before pressing finish.	e	uration
Format selection hisprated by IBM Output file selection • Validate with SOVA (Single Order Validation Application) • TMF/SEO - CFReportExcel format Directory selection C.VJsers/BM_AOMNDesktop Filename entry 1 - OP_PureFlex_Training_SJan2015 Cancel Cancel With Back Finish				nitored 60A 3 Phase PDU (~ 15
Integrated by BM Output file selection • Validate with SOVA (Single Order Validation Application) • TMF/SEO - CFReportExcel format Directory selection C.WsersVBM_ADMINDesktop Filename entry 1 - OP_PureFlex_Training_SJan2015 Cancel Cancel Image_state Image_state		Format selection		
Output He selection • Validate with SOVA (Single Order Validation Application) • TMF/SE0 - CFReportExcel format Directory selection C:Users/BM_ADMINDesktop Filename entry 1 - GP_BureFlex_Training_SJan2015 Cancel Cancel Hill Back Finish		Integrated by IBM		
 Validate With SUVA (Sligle Order Validation Application) TMF/SEO - CFReport/Excel format TWF/SEO - CFReport/Excel format Directory selection CUSersVBM_ADMINDesktop Filename entry 1 - OP_PureFlex_Training_9Jan2015 Cancel UII Back Finish 		Output file selection		
TMP/SEO - CFReportExcel format if availability is "C: Ships in 15 bus the current availability is "C: Ships in 15 bus the current availability is "C: Ships in 15 bus the current availability is "C: Ships the current availability is "C: Ship the current a		 Validate with SOVA (Single Order Validation Application) 		
Directory selection D the current availability is "C: Ship C:UsersVBM_ADMINDesktop P the current availability is "C: Ship Filename entry 1 - GP_PureFlex_Training_9Jan2015 1 - GP_PureFlex_Training_9Jan2015 hips in 15 business days or less recommended for IBM PureFlex Services More info ability More info ability More info ability More info ability More info		 TMF/SEO - CFReport/Excel format 		t availability is "C: Ships in 15 busi
C:Users\IBM_ADMINDesktop Filename entry 1 - GP_FureFlex_Training_9Jan2015 Cancel JII Back Finish 1 - More_558 1 - GP_FureFlex_Training_9Jan2015 Cancel JII Back Finish		Directory selection) the current availability is "C: Ships
Filename entry 1 - GP_PureFlex_Training_9Jan2015 irre that if Flex nodes (MT 7917, 8 1 - GP_PureFlex_Training_9Jan2015 hips in 15 business days or less recommended for IBM PureFlex S Services More info ability More info		C:\Users\IBM_ADMIN\Desktop		the current availability is "C: Ship:
1 - GP_PureFlex_Training_9Jan2015 thips in 15 business days or less recommended for IBM PureFlex S Services More info ability More info 1 Mode_5664 Mode_7445		Filename entry		ire that if Flex nodes (MT 7917, 87
recommended for IBM PureFlex S Services More info ability More info		1 - GP_PureFlex_Training_9Jan2015	3	hips in 15 business days or less."
Services More info ability More info ability More info				recommended for IBM PureFlex Sy
Cancel (iii Back Finish)				Services More info
Cancel UII Back Finish			1	ability <u>More info</u>
Cancel 411 Back Finish				
Cancel dill Back Finish				
Cancel UII Back Finish				
1 Node_5583 1 Node_7483		Cancel 4iii Back	Finish	
		1 Node 5553 1 Node 7453 Node 5552		

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A "SOVA Validation results" pop-up window displays when finishing a configuration. In this example the configuration passed SOVA, which is a good indicator that manufacturing can build the solution without any issues. If SOVA failed, then you would click the "SOVA Validation details" link to fix the issues. There will be an email address to send a defect to the SOVA team. Otherwise send a defect request to <u>erchelp@ca.ibm.com</u>. Click "OK".



A pop-up window confirms "Cluster sheet created"; this is the XLS file. Click "OK".

d - Review selections	The part of the second distance of the second	23
Format selection Output file selection	Review selections	
Directory selection Filename entry Review selections	Please review the selections made before pressing finish.	0
	Format selection	
	Cluster sheet created	
	XLS file saved to C:\Users\IBM_ADMIN\Desktop\GP_TMF_SEO_PureFlex_Training_9Jan2015.xls	
	Filename entry	
	1 - GP_PureFlex_Training_9Jan2015	
	Cancel Cancel Finish	

Next, a pop-up window confirms the creation of the CFReports at your selected directory. Click "OK".

d - Review selections	22
Format selection Output file selection	Review selections
Directory selection Filename entry Review selections	Please review the selections made before pressing finish.
	Format selection Integrated by IBM Outp Success 2 CFReports successfully created in the directory: C:Users\IBM_ADMIN\Desktop Dire C:Users\IBM_ADMIN\Desktop Filename entry 1 - GP_PureFlex_Training_9Jan2015
	Cancel Aill Back Finish

Next, a pop-up window shows that System x Enterprise Solution Services were included in the configuration, including the number of days. You can remove the System x Enterprise Solution Services during the configuration process. PureFlex configuration and deployment services are available as an integral way to help speed deployment of your PureFlex System and rapidly develop a skills base. These services are highly recommended and are available from Lenovo or your qualified Business Partner. A minimum of four Service units is recommended and additional units can be added based on your requirements.

	d - Review selections	Tage allow in the second distances in the second distance with the second distances of the second distance with the secon	23
actions. Add new rack	Format selection	Review selections	
Add new Pure Rack_PureFlex	 Directory selection Filename entry Review selections 	Please review the selections made before pressing finish.	0
		Format selection	
	System x En	terprise Solution Services Required	
	System x En i Thi 00' Pri So obl A S orc Op	terprise Solution Services Required is configuration file includes the following System x Enterprise Solution Services: Quantity Y3450 One Day System x Premium ServiceUnit - North America 4 ior to submitting a quotation to the customer, please contact a Lenovo System x Enterprise lution Services Sales and Opportunity Manager to discuss your client's requirements and tain the following items: Estimated number of units Statement of Work with description of services, terms and conditions Statement of Work must be in place between Lenovo and the End Customer before this fer can be fulfilled and services performed. uportunity Managers can be contacted via e-mail at x86svcs@lenovo.com.	
		Cancel Cancel Finish	
		1 Node_5555 Handle control 1 Node_7455 Node_5532 Horde_5135	

Next, a pop-up window shows "Success" for the saved files. Like many pop-up windows you can indicate "Do not show this dialog again" by checking the box. Click "OK".



The configuration is now complete. It has been saved and exported, and it passed SOVA. There are no red X messages to fix. You can now exit x-config.



The "Reference" tab of the exported XLS spreadsheet lists the part number (PN), description, and prices for features included in the configuration. In Europe and Asia Pacific the XLS file is used for ordering and manufacturing, see the following slides.

X≣	E 5	Ţ 🕐 Ţ Ţ GP_TMF_SEO_Pu	reFlex_Training_9.	Jan2015.xls [Compatibility Mode] -	Microsoft Excel	(Safe Mode)
E	ILE HO	DME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW					
	🚬 🔏 Cut	Arial 10 - A A = =	General	-		Normal	Bad
Pas	ڶ 🖻 Cop		¢ _ 0/ *	€.0 .00 Co	onditional Format as	Good	Neutral
-	🔸 💎 Forr	nat Painter $\mathbf{B} = \mathbf{I} = $.p * 70 °	.00 →.0 Fo	rmatting + Table +		
	Clipboar	d ra Font ra Alignment ra	Number	G		Styles	
A1	L	\cdot : $\times \checkmark f_x$					
	В	C	D	E	F	G	H I
1	NOTE		a mba a mala				
2	NOTES	2) Maintenance prices above are reference of	only and a	re subj	ect to change		notice.
3		2) Maintenance prices shown are reference prices only an	a are star	idard le	ever of service	e.	
5	PN	Description	Unit Price	Quantit	ty Total Price	Flag	
6		COUNTRY = United States			USD		
8		CONFIGURATION TOTAL			154,908.00		
9		Flex System chassis_PureFlexSystem_32	77,351.00	1	77,351.00		
10	8721HC1	IBM Flex System Enterprise Chassis Base Model	0.00	1	0.00		
11	A3HH	IBM Flex System Fabric CN4093 10Gb Converged Scalable Switch	20,899.00	1	20899		
12	A5DL	IBM SFP 1000Base-T (RJ-45) Transceiver	299.00	2	598		
13	5075	IBM 8Gb SFP + SW Optical Transceiver	189.00	4	756		
14	5053	IBM SFP+ SR Transceiver	665.00	4	2660		
15	A3HL	IBM Flex System Fabric CN4093 Converged Scalable Switch (Upgrade 1)	10,999.00	1	10999		
16	A0UE	IBM Flex System Chassis Management Module	935.00	1	935		
17	3803	3m Blue Cat5e Cable	25.00	4	100		
18	A0UC	IBM Flex System Enterprise Chassis 2500W Power Module Standard	439.00	1	439		
19	A0UC	IBM Flex System Enterprise Chassis 2500W Power Module Standard	439.00	1	439		
20	6252	2.5m, 16A/100-240V, C19 to IEC 320-C20 Rack Power Cable	19.00	4	76		
21	A0TW	System Documentation and Software - US English	0.00	1	0		
22	A0TA	IBM Flex System Enterprise Chassis	4,624.00	1	4624		
	4	Halp Peteroneo CEP Review Disgram Massages History PriceCale	D2D Pack A1	A		: 141	
REA	DV		FZF NOUN AL	Ð		: 4	

The "CFR Review" tab of the exported XLS spreadsheet can be used to verify that all the parts needed for your solution are in the configuration. Manufacturing features are also included.

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+		AINE	IBM Flex System Console Breakout Lable						-
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t		3802	15m Blue CatSe Cable	1					
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t		AOTQ	IBM Flex System Switch Filler	2					
t		AOTA	IBM Flex System Enterprise Chassis	1					
t		ASDL	IBM SFP 1000Base-T (BJ-45) Transceiver	4					
t		5053	IBM SFP+ SR Transceiver	4					
t		A2ZT	IBM Fabric Manager Manufacturing Instruction	1					
t		3803	3m Blue Cat5e Cable	4					
t		ASRA	Transparent Mode Switch Indicator	1					
T		6252	2.5m, 16A/100-240V, C19 to IEC 320-C20 Rack F	4					
		AOTW	System Documentation and Software - US Engli	1					
		AOUD	IBM Flex System Enterprise Chassis 2500W Powe	2					
		AOUE	IBM Flex System Chassis Management Module	1					
		A1DP	1m IBM QSFP+-to-QSFP+ cable	1					
		A2RR	IBM Flex System Management Serial Access Cab	: 1					
		AOTU	IBM Flex System Enterprise Chassis Fan Module I	2					
		AOTL	IBM Flex System Enterprise Chassis Power Modu	2					
		2300	BladeCenter Chassis Configuration	1					
		8971	Integrate in manufacturing	1					
		AOTM	IBM Flex System Chassis Management Module	1					
		AOTR	IBM Flex System Enterprise Chassis Label Group	1					
		A10X	IBM Flex System Enterprise Chassis Rack Kit	1					
		2306	Rack Installation > 1U Component	1					
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Below is a view of the "SAP Order Entry Robot" tab of the XLS spreadsheet for a configuration in the UK. This tab is used for order entry in Europe and Asia Pacific.

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SAP field	Instructions/Comments for CSO Enter value here				l ine Item	Higher	Matorial PN	DN Description				
Mandatory fields to be com	pleted by CSO before robot submissi	on			Line item	Item Tie	Wateriarriv	Description				
ORDER TYPE	Typical values are ZGOR, ZIBM, ZWTR			37								
SOLD_TO Customer	8 10 digits			38	Order1		0704574	IRM Flaw Swatawa Fratawaria a Okasasia				
	8-10 digits			39	10	10	6721F11 4210/0065	Suctors Desumentation and Software LIK Engli	ich			
	35 char max			40	20	10	43009000	IBM Elev System Enterprise Chassis Power Mod	ule Filler			
	dd/mm/yyyy			41	40	10	81Y5286	IBM Flex System Console Breakout Cable				
	8-10 digits			42	50	10	0008022	IBM Flabric Manager Manufacturing Instruction				
	8 10 digits			45	60	10	43W9060	IBM Flex System Switch Filler				
	8 10 digits			45	70	10	39Y7916	2.5m 16A/100-240V C19 to JEC 320-C20 Rack	Power Cable			
	dd/mm/aaau			46	80	10	43W9047	IBM Flex System Enterprise Chassis 2500W Pov	ver Module Standard			
Mandatony fields if Contras	t number is not provided above			47	90	10	00JX952	IBM Flex System Management Serial Access Ca	ble			
				48	100	10	00AE171	PureFlex Foundation Minimum Configuration				
SALES_ORG	4 digits			49	110	10	00AE175	Transparent Mode Switch Indicator				
6 DISTRIBUTION_CHANNEL	1 char			50	120	10	43W9053	IBM Flex System Enterprise Chassis Fan Module	Filler			
								· ·				
8 Optional fields to be compl	eted by CSO before robot submission	. Values not provided will be default	ed or obtained from contra	51	130	10	00D5845	IBM Flex System Fabric CN4093 Converged Sca	lable Switch (Upgrade 1)			
9 ORDER_REASON	3 digits			52	140	10	44X1964	IBM 8Gb SFP + SW Optical Transceiver				
0 SPEC_DIST_INST	CPOM # (35 Chars max)			53	150	10	00FE333	IBM SFP 1000Base-T (RJ-45) Transceiver				
	35 chars			54	160	10	68Y7030	IBM Flex System Chassis Management Module				
2 CONTACT_PHONE	16 chars			55	170	10	40K8785	1.5m Blue Cat5e Cable				
				56	180	10	00D5823	IBM Flex System Fabric CN4093 10Gb Converge	ed Scalable Switch			
3 Ship-to ADDRESS_NAME1	35 chars			57	190	10	43W9054	IBM Flex System Compute Node Filler				
				58	200	10	46C3447	IBM SFP+ SR Transceiver				
4 Ship-to ADDRESS_NAME2	35 chars			59	210	10	49Y7890	1m IBM QSFP+-to-QSFP+ cable				
				60	220	10	40K5581	3m Blue Cat5e Cable				
5 Ship-to ADDRESS_NAME3	35 chars			61	230	10	59Y7921	BladeCenter Chassis Configuration				
6 Ship-to STREET	35 chars			62	240	10	25R4194	Integrate in manufacturing				
7 Ship-to CITY	35 chars			63	250	10	43009058	IBM Flex System Chassis Management Module	-			
8 Ship-to Region				64	200	10	43009001	IBM Flex System Enterprise Chassis Label Grou	p			
9 Ship-to Postal Code	12 chars			65	200	10	43009002	Bill Flex System Enterprise Chassis Rack Nit				
World Trade Ship-to Code	3 chars			60	200	10	4911013	RadeCenter 01				
1 World Trade Bill-to Code	3 chars			20	300	10	4911029	Integrate BladeCenter in Manufacturing				
2 PAYMENT_METHOD	For example: "E". SAP code forces you			60	310	10	4920990	General Racking Solution				
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3 NUMBER			•	71	330	10	10V2180	Pack location 1102	-			
 Messages_History 	SAP Order Entry Robot P2P Rack A1 0	CFR 🕂 : 🖣	Þ	 ↓ ▶ 	Messages_History	SAP Order Entry	Robot P2P Rack A1	CFR 🕀 : 🖪	Þ			
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Below is a view of the CSV spreadsheet for the UK. The ePricer CSV file is used for pricing in Europe and Asia Pacific. When you export the configuration for Europe and Asia Pacific countries, an "SAPePricer" folder is created in your selected directory. The CSV file is in the folder.

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8	8GB (1x8GB 1Rx4 1.35V) PC3L-12800 CL11 ECC DDR3 1600MHz LP RDIMM	00D5037		2						-
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11	11 IBM Fabric Manager Manufacturing Instruction			1						-
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13	13 IBM 200GB SATA 1.8' MLC SSD			2						-
14	14 IBM Flex System Management Serial Access Cable			1						-
15 Intel Xeon Processor E5-2650 v2 8C 2.6GHz 20MB Cache 1866MHZ 95W		00Y2801		1						-
16	16 Integrate in manufacturing			2						-
17	17 2.5m 16A/100-240V C19 to IEC 320-C20 Rack Power Cable			2						-
18	18 3m Blue Cat5e Cable			6						-
19	19 1.5m Blue Cat5e Cable			1						_
20	20 IBM Flex System Enterprise Chassis 2500W Power Module Standard			2						-
21 IBM Flex System Enterprise Chassis Power Module Filler		43W9048		4						-
22 IBM Flex System Enterprise Chassis Fan Module Filler		43W9053		4						-
23 IBM Flex System Compute Node Filler		43W9054		12						-
24	24 IBM Flex System Chassis Management Module			1						-
25	25 IBM Flex System Switch Filler			2						-
26	26 IBM Flex System Enterprise Chassis Label Group			1						- /
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Thank you

