

PowerFlex rack



CST Ordering Guide

Revision History		
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1 PowerFlex rack – Glossary

PowerFlex rack, an engineered system has many components and uses various terms to describe the components, features, and function. The following *Table 1-1:PowerFlex Glossary* describes the various PowerFlex rack terms used in documentation.

Table 1-1:PowerFlex Glossary (Update offline)

Term	Explanation/Definition	Comments
PowerFlex Node	A Dell PowerEdge server able to run either a VMware hypervisor or RHEL operating system.	
Aggregation Switch	A switch that is allows Inter-cabinet (East/West) communication and scalability in a PowerFlex rack. This switch also connects PowerFlex rack to the customer network.	
Access Switch	A switch that allows intra-cabinet (North/South) communication in a PowerFlex rack. PowerFlex nodes are connected to access switches	
PowerFlex	PowerFlex is a software-defined block storage from Dell EMC. PowerFlex rack is powered with PowerFlex	
MDM	Meta Data Manager (MDM) is one of the key components of the PowerFlex. It keeps track of metadata of the systems storage blocks	
SDC	Storage Data Client (SDC) is a PowerFlex component. It runs on each PowerFlex nodes as a driver and consumes storage from PowerFlex storage cluster.	
SDS	Storage Data Server (SDS) is a PowerFlex component that runs on a PowerFlex node as a low-level OS kernel driver and makes local storage available to the storage cluster as block storage.	
SDR	Storage Data Replication (SDR)	
PowerFlex HC Node	A PowerFlex node that contributes it's local storage to the cluster as well as it consumes the storage from the cluster. It has both SDC and SDS running on it	
PowerFlex CO Node	A Compute Only nodes is a PowerFlex node that has only SDC running on it. It doesn't contribute any storage to the PowerFlex cluster. CO nodes are designed to be heavy on compute power (CPU, Memory)	
PowerFlex SO Node	A PowerFlex node that has only SDS running on it. These nodes have RHEL OS based on have very little compute power. The function of the nodes is to provide storage to the PowerFlex cluster.	No application workload can run on these nodes.
PowerFlex - HC deployment	In this mode of the PowerFlex deployment, all nodes are Hyperconverged nodes.	PowerFlex - HC deployment
PowerFlex 2-Layer	In this mode of PowerFlex SDC runs on CO nodes and SDS runs on SO nodes. storage makes two different clusters.	
PowerFlex-Hybrid	In this mode, HC and 2-Layer clusters are combined in the same system	
IPI Cabinet	The physical cabinet that is designed to house servers, networking devices, cables and other data center computing equipment.	
PowerFlex Management Controller or controller	The PowerFlex management controller consists of hardware and software management components of a PowerFlex rack. The FLEX controller components are self-contained and separate from the production environment.	The controller provides management for the entire PowerFlex Infrastructure.
Management Controller node or Controller node	PowerFlex Management Controller nodes are purpose-built Dell EMC PowerEdge R servers that provide compute and storage capacity required to run PowerFlex management software components	

PowerFlex NSX-T node	PowerFlex NSX-T nodes are purpose-built Dell EMC PowerEdge R servers that provide edge routing and security utilizing VMware NSX-T Data Center	
PowerFlex file node	PowerFlex File nodes are purpose-built Dell EMC PowerEdge R servers which provide file protocol services	

2 Preface

2.1 About the PowerFlex Ordering Guide

This PowerFlex ordering guide describes PowerFlex rack component SKUs and ordering rules used to build the system at the factory.

2.2 Intended Audiences

The ordering guide is developed to provide SKUs and ordering rules info to presales, **Presales Support Services (PSS)**, Customer Experience Engineering (CEE), Professional Services, Deployment and Implementation, Customer Support Services (CSS), Product Marketing, Product Management, Manufacturing, and Factory Automation teams. Customer facing content can be found on the PowerFlex Sales Portal page¹.

2.3 Text Conventions

Convention	Description
Blue Text	Indicates hyperlink
Bold – Calibri light	Section or table heading
Italic	Figure description
Bold Red in a banner	Required rule
Light Indicator in a square box	Alert or warning that requires readers to pay attention
Text supper script index	Represents a footnote pointing to a document or web URL

2.4 Acronyms

The playbook uses various acronyms that are specific to the product, Dell EMC or industry. The following table list the acronyms used throughout the document.

Category	Acronym	Definition	Comments
Hardware			
	HC	Hyperconverged	
	SO	Storage Only	
	CO	Compute Only	
	PI	Physical Infrastructure	
	IPI	Intelligent Physical Infrastructure	
	NIC	Network Interface Card	
	RU	Rack Unit	
	POU	Power Outlet Unit	
	PDU	Power Distribution Unit	

Category	Acronym	Definition	Comments
	SPDU	Smart PDUs	
	SSD	Solid State Drive	
	NVMe	Non-Volatile Memory Express	
	SED	Self-Encrypting Drive	
	KMIP	Key Management Interoperability Protocol	
	FIPS	Federal Information Processing Standards	
	PCIe	Peripheral Component Interconnect Express	
	BOSS	Boot Optimized Storage Solution)	PowerFlex Nodes have two BOSS 240GB RAID 1 M.2 SATA Devices
	NSX-T	Next Technology – NSX-T Data Center	
<hr/>			
Software/Logical			
	PD	Protection Domain	
	PFxM	PowerFlex Manager	
	SDC	Storage Data Client	
	SDS	Storage Data Server	
	SDR	Storage Data Replicator	SDR is responsible for processing I/Os of replication volumes
	SDT	Storage Data Target	
	RHEL	Red Hat Enterprise Linux	
	SDN	Software Defined Network	
	ACI	Application Centric Infrastructure	Cisco ACI is a SDN architecture with centralized automation and policy-driven application profiles
	PFMC	PowerFlex Management Controller	
	PFMP	PowerFlex Management Platform	
	SLES	SUSE Linux Enterprise Server	

3 PowerFlex rack Overview

PowerFlex rack is a cloud-grade hyperconverged engineered system designed for modern data center workloads. PowerFlex is designed to deliver unmatched performance, scalability, elasticity, and flexibility to meet infrastructure needs of the modern and agile businesses. The system is powered with software-defined storage called PowerFlex and enterprise-class PowerEdge servers. It offers several deployment options as well as the choice of hypervisors and comes with integrated Dell and Cisco network switches. The system supports multiple network topologies including traditional access/aggregation, leaf/spine, NSX-T, and ACI (Dual Network).

4 Regional Configuration and Quoting Tools

The following ordering tools will assist with configuration and quoting a PowerFlex Rack solution. The logic and options in the ordering tools are explained in this ordering guide.

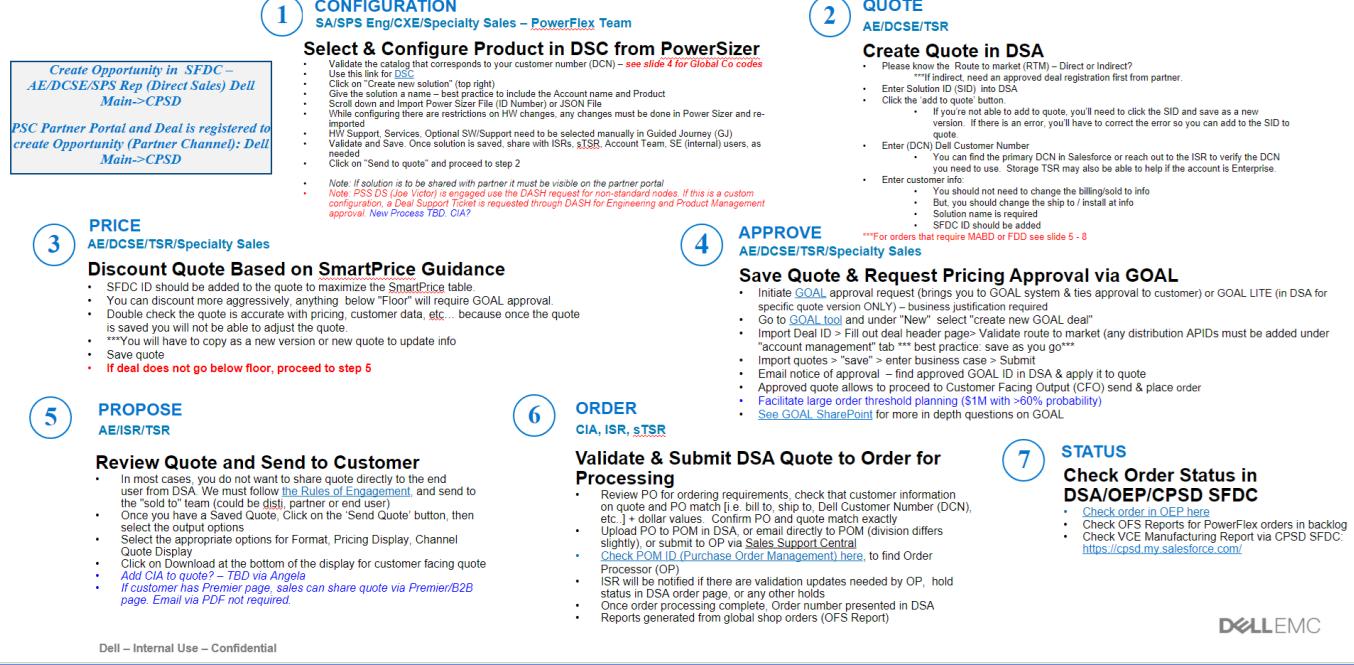
The common seller tools (DSA/OSC) is available for ordering globally on **Feb 6th 2023**.

PSS is available to assist with PowerSizer use and JSON file import into CST. Please schedule an appointment via [DASH](#).

Overall Process Flow : [PowerFlex CPQ Process on DSA 10_9_23.pptx](#) (Slide 2)

E2E PowerFlex Rack Process on DSA

Rev 10/16/23 recommendations from sTSR team



4.1 Creating an Opportunity ID (Dell Main Opportunity to generate CPSD Opportunity)

The Dell Main Opportunity will be created the same way as today.

See this page for instructions for creating an Opportunity. This will be required for closing a deal.

[Link to CI Ambassador site for instructions](#)

Note: PowerFlex Rack Product selected in Dell Main will continue to say "ACT Configurable Product" like below:

Opportunity	PIT Trident Testing - PIT- PFR test to validate Agreement ID flow
Product	PowerFlex rack System
Product Description	ACT Configurable - Only add to Oppty if configuration needed in ACT (CPSD Quoting)
Product Group	Converged Infrastructure
Sales Configurator Identifier	
ACT	
Brand Desc	
PowerFlex rack System	
EOL Date	
Replacing Platform	

4.2 PowerSizer JSON (If not already provided)

PowerSizer gives you the tools and information you need to find the right storage solution for your customer.

Note: In order to proceed to quoting an CPSD OppID is required. Ex: PXXXXXXX

PowerSizer Tool Link: <https://powersizer.dell.com>

PowerSizer Training Link: [Training Recording](#) : Passcode: n=@7T3wB

Use PowerSizer tool to output JSON File for OSC.

The JSON file is a solution generated based on your parameters for the customer.

JSON file will include a checksum feature and no changes can be made once it is generated.

PowerSizer Tool Feedback for issues/enhancements can be provided via Link below:

The screenshot shows the Dell PowerSizer web application. On the right side, there is a sidebar with a user profile for 'ROBIN MANGALHAS'. A red box highlights a dropdown menu with two options: 'Issue' and 'Enhancement'. The main content area includes sections for 'ISG: Sizing and Build Tools', 'Quick Size' (with product family selection), 'Recent Projects' (listing 'test' and 'dell'), and '4 Unsaved Sizing Requests' (listing four requests from Jan 26, 2024, to Nov 8, 2023). A callout bubble on the right side provides information about PowerSizer's capabilities and encourages users to submit RPQs for specific features.

4.2.1 PowerSizer Steps

1. Create a new solution.
2. Select the nodes.

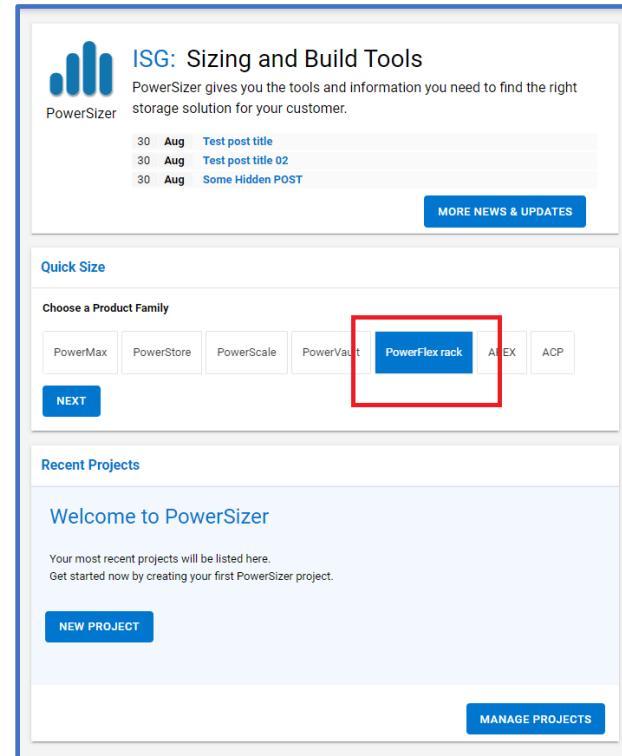
3. Select Accessories

- 3.1. Network Switches and Licenses
- 3.2. NSX-T
- 3.3. Management Controllers and switches
- 3.4. Switch Mappings
- 3.5. Cabinets
- 3.6. Software

4. Export and Download JSON file.

4.2.2 PowerSizer Flow

On login to the PowerSizer, using <https://powersizer.dell.com>, your PowerSizer Dashboard page will be launched.



4.2.2.1 Create a new solution

1. Select “**PowerFlex rack**” and click **Next**.

2. Create a Solution

The screenshot shows the 'Rack Solution' creation screen. At the top, there are navigation icons: a blue square labeled 'SIZE SCENARIO', a 'SAVE' button, an 'EDITOR' button, a 'CONFIGURATIONS' button, and a 'REVISION 1' button. To the right of these is a 'TIB' dropdown menu. On the left, a sidebar titled 'Rack Solution' shows a 'PowerFlex Rack System' under 'New System'. Below this is a 'Node Summary' section with a '+ Click to add nodes' button. The main area is titled 'Rack Solution' and contains four input fields: 'Solution Name' (set to 'Rack Solution'), 'Build Type' (set to 'New System'), 'Network Speed' (set to '25Gbps'), and 'Region' (set to 'AMER'). A 'CREATE SOLUTION' button is at the bottom of this form.

2.1. Provide a **name** for the solution.

2.2. Select the "**Build Type**": either "New System" or "Expansion".

In the first version only "New System" will be supported. For Expansion TBD

2.3. Network Speed

Define the nodes network speed. The network speed will be used in all filters to provide the relevant options according to the network speed.

2.4. Region

Select the region out of the list.

2.5. And click on "**Create Solution**".

4.2.2.2 Nodes Sizing Screen

The first screen for the sizing is the node sizing screen.

Before being able to continue to select the Cabinet and its components, nodes need to be selected. Without selecting any node, the next phases are disabled.

Nodes sizing screen:

The screenshot shows the 'Nodes sizing screen' interface. On the left, there's a preview area titled 'Untitled Scenario' showing a 'Solution1' card (marked with a red box) and a 'PowerFlex Rack System New System' card (marked with a blue box). Below this is a 'Node Summary' section with a green border, containing a note to 'Click to add nodes'. At the top of this section is a 'SIZE SCENARIO' button. On the right, there are four tabs: 'STORAGE' (selected), 'HYPERCONVERGED', 'COMPUTE', and 'SELECT NODES'. Under 'STORAGE', there's a 'Search Form' with a 'SimpleSizer' toggle switch, and sections for 'General' (Storage Data Layout: Medium Granularity, Minimum MG Capacity (Usable): 5 TiB) and 'Workload' (Read/Write Ratio: 70%R - 30%W). A note at the bottom says 'Use the Search Form above to find and add Nodes to your Nodes List.'

- The left side of the screen include an overview of the selected components for the solution:
 - o The solution name is displayed at the top – marked by the red box.
 - o The solution type – New System – marked by the blue box.
 - o The selected nodes – marked by the green box. Currently the node summary is empty as no nodes were selected.
 - o At the top There is the “Size Scenario” button that is currently disabled. The button will be enabled when at least 4 nodes will be selected.
- At the right side of the screen, the user can choose the type of nodes. The node-types tabs at the top include:
 - o STORAGE – size for “Storage Only” nodes
 - o HYPERCONVERGED - size for “Hyperconverged” nodes
 - o COMPUTE – size for compute nodes
 - o SELECT NODES – manually select a fixed node configuration.

4.2.2.3 Storage Only nodes sizing

- The sizer provides the node config options according to the information provided in the “INPUTS” and the “FILTERS” tabs.

- The INPUTS include information about the workloads, capacity and PowerFlex Storage features.
 - The FILTERS include information about the Hardware.
- The user can change the information in the INPUTS and FILTERS tabs according to his needs.
- There are 2 ways to size for nodes:
 - Simple Sizer – Sizing by just the
 - Storage Layout – Either MG or FG
 - Minimum Usable Capacity – by TiB
 - Workload
 - Multi-option sizing – When the Simple sizer is disabled. This option allows to provide more input information to get more accurate sizing.
- When providing all the required input, click on the “SEARCH” button, to get the node options according to the input information.

Server Type	Node type	CPU	Memory Breakdown	GPU	Power (W)	IOPS (K)	Usable Capacity (TiB)	Quantity of Node	Generation
R650 (1U1N)	Storage	2 x Intel 6326 (16 Cores, 2.90 GHz)	256GB (8x32GB) RDIMM, 64GB (4x16GB) NVDIMM	0	1400W	641	104.77	4	15G
R650 (1U1N)	Storage	2 x Intel 6326 (16 Cores, 2.90 GHz)	256GB (8x32GB) RDIMM, 64GB (4x16GB) NVDIMM	0	1400W	641	104.77	4	15G

- At the bottom of the screen, the sizer will provide different options for the node models and quantity, to address the query.
- The user can select one of the options by clicking on the 3 dots at the right of the column, marked by a red box and select “Add To Solution”.
- The nodes will be added to the solution and appear in the overview section at the left pane of the screen.

The screenshot shows the 'SIZE SCENARIO' configuration screen for an 'Untitled Scenario'. The 'GENERAL' tab is selected. On the left, a 'Node Summary' table lists four nodes, with 'Node #1' highlighted by a red box. The 'Node #1' details are as follows:

Parameter	Value
4 Node Count	4 SO
	• 279.39 TiB Raw Capacity
	• 104.77 TiB Usable Capacity
	• 641 K IOPS
	• 5600 / 3924 W Power

The main configuration table includes columns for GENERAL, RAW, USABLE, WORKLOAD, COMPUTE, NETWORK, and AVAILABILITY. The 'General' section contains the following data:

Parameter	Value
Node/Chassis	R650 (2 Proc, 1U1N) SO Node
RAM Breakdown	256GB RDIMM, 64GB NVDIMM
Storage Controller selection	HBA355
GPU	None
Available Network Ports	4x 25Gb SFP28 Broadcom
Power/Node	1400W
Drive Details	SAS 10 x 7.68 TB
Solution	4 x Chassis, 4 x U, 4 x Nodes, 5600W
Node ID	S003
Model ID	D-GS-02T6326-1-08D00A00A00A04C-J00AA-010 BB-00AAA-4C-0A-C-D

- In the screenshot, the selected node config gets a name automatically, which can be changed using the modify icon near the name.
- In case needed, more node configs can be selected of any type.
- When finished selecting the nodes, click on the “Size Scenario” button.
- The nodes config will be saved and PowerSizer will upload the Accessories screen.

4.2.2.4 Accessories Screen

Vendor	Model	Connectivity	Speed up	Ports up	Speed down	Ports down
Cisco	93240YC-FX2	2x100G AOC	100G	12xQSFP28	10/25G	48xSFP28
Cisco	93240YC-FX2	2x100G BiDi	100G	12xQSFP28	10/25G	48xSFP28

- In the Accessories screen, the complementary rack components can be selected. The components can be found in the following tabs:
 - o Prod Network
 - Leaf/Access switches selection
 - Spine/Aggregation switches selection
 - Border switch selection
 - Dual Network switches selection
 - NXOS
 - o NSX-T
 - o Management
 - Management Controller nodes
 - Management switches
 - Management Aggregation switches
 - o Switch Mappings
 - o Cabinets
 - o Software

4.2.2.5 Prod Network

In the Prod Network tab, the prod switches and NXOS licenses can be selected.

1. At the top, select the topology out of the available network topology options. The topology options are filtered by the nodes speed.
2. In case Spine/leaf topology is selected, the “Parallel Spine links” option will be enabled and the user will be able to select either “Dual Link” (Default) or “Single Link”
3. When the topology and “Parallel Spine links” are selected the next options will be automatically filtered by the selected topology
4. Leaf/Access Switches
 - 4.1. Select the required switch for the Leaf/Access out of the available switch models. The list is a filtered list according to the topology, speed and “Parallel Spine links”.
 - 4.2. For Access/Agg topology, select the switch and the required connectivity.
5. Spine/Aggregation Switches
 - 5.1. When a Leaf/Access switch is selected the Spine/Aggregation switch section will be enabled.
 - 5.2. Select the required switch and uplink for the Spine/Aggregation out of the available switch models. The list is a filtered list according to the topology and vendor from the previous steps.
6. Border Leaf
 - 6.1. Valid for Spine/Leaf topology only.
 - 6.2. The Border Leaf Switch section will be enabled only after a spine switch was selected.
 - 6.3. Check the “Customer side optics required” in case needed.
 - 6.4. Select the switch out of the available options.
7. Dual Network Switch
8. NXOS
 - 8.1. Select the required NXOS license. The options are filtered by the topology.
 - 8.2. Select the “NXOS license duration”: 3,4 or 5 years. The NXOS license duration will be the same for all components that require NXOS license.
9. When all sections of the “PROD NETWORK” completed, the “SAVE” button at the bottom will be enabled. Click “SAVE” to continue to the next section.
10. When saved, the selected switches will be displayed in the overview screen at the left pane.

4.2.2.6 NSX-T

The screenshot shows a software interface for configuring a PowerFlex rack. At the top, there are tabs for 'ACCESSORIES' and 'EXPORT'. Below these are several sub-tabs: 'PROD NETWORK', 'NSX-T' (which is selected and highlighted in blue), 'MANAGEMENT', 'SWITCH MAPPING', 'CABINETS', and 'SOFTWARE'. Under the 'NSX-T' tab, there is a section titled 'NSX-T edge node' with a toggle switch that is turned on. Below this, there is a table with two rows:

Model	CPU	RAM	Drives	Storage
NSX-T R650 25G LG	2 x Intel Xeon Gold 6326 (16 Cores, 2.9 GHz)	512GB RDIMM	5 x 1.92 TB SATA	9.6 TB
NSX-T R650 25G SM	2 x Intel Xeon Gold 6326 (16 Cores, 2.9 GHz)	256GB RDIMM	5 x 1.92 TB SATA	9.6 TB

Below the table, there are three dropdown menus:

- 'Storage type *': Options are 'vSAN' (selected) and 'Standard'.
- 'Number VMs *': Options are '6-8' (selected) and '16-32'.
- 'Number of NSX-T edge nodes *': Options are '4' (selected) and '8'.

At the bottom right of the screen are two buttons: 'RESET' and 'SAVE'.

1. The NSX-T selection is optional.
2. Enable the “NSX-T edge node” option in case needed.
3. Select the required node type LG/SM (Large or Small)
4. Define the storage type: vSAN or Standard.
5. Select the number of VMs. The recommended number of VMs will be displayed by default. The user has the option to select a higher number of VMs.
6. Select the number of NSX-T edge nodes.
7. Click on the “SAVE” button at the bottom of the screen.
8. When saved, the selected switches will be displayed in the overview screen at the left pane.

4.2.2.7 Management

4.2.2.7.1 Management Controller Nodes

ACCESSORIES EXPORT

PROD NETWORK NSX-T MANAGEMENT SWITCH MAPPING CABINETS SOFTWARE

Management Controller Nodes
Selected option: FLEX-MGMT-LG R650 25G/100G

Number of nodes: *

4

Model	CPU	RAM	Drives	Storage
<input checked="" type="radio"/> FLEX-MGMT-LG R650 25G/100G	2 x Intel Xeon Gold 6326 (16 Cores, 2.9 GHz)	512GB RDIMM	10 x 1.92 TB SAS	19.2 TB
<input type="radio"/> FLEX-MGMT-SM R650 25G/100G	2 x Intel Xeon Gold 6326 (16 Cores, 2.9 GHz)	512GB RDIMM	5 x 1.92 TB SAS	9.6 TB

NEXT

1. Select the “Number of nodes”. The default is 3 when NSX-T is not selected and 4 when selected. The user can increase the number of the selected nodes.
2. Select the required node LG or SM

4.2.2.7.2 Management Switch

ACCESSORIES EXPORT

PROD NETWORK NSX-T MANAGEMENT SWITCH MAPPING CABINETS SOFTWARE

Management Controller Nodes
Selected option: FLEX-MGMT-LG R650 25G/100G

Management Switch

Is management aggregation required

NXOS License *
None

Number of Management Switches
1

Vendor	Model	Speed up	Ports up	Speed down	Ports down
<input type="radio"/> Cisco	92348GC-X	25/100G	4xSFP28	1/10G	48xRJ45

BACK **NEXT**

Management Aggregation Switch

RESET **SAVE**

1. Enable/Disable the “Is management aggregation required” option. This option is available for Cisco only.

2. For Cisco only - Select the required NXOS license.

2.1. Note: In case NXOS license was not selected for the PROD network switches and NXOS was selected for the management switch, the license duration needs to be set in the PROD screen other else the JSON file will not be created. There is no need to select the NXOS license for the RPOD switches, just to set the license duration.

3. Select the number of management switches.
 4. Select the required management switch out of the options.

4.2.2.7.3 Management Aggregation Switch

This option will be available only when the “Is management aggregation required” option was enabled in the previous section.

1. Select the required switch out of the listed options.
 2. For Cisco only - Select the required NXOS license.
 - 2.1. **Note:** In case NXOS license was not selected for the PROD network switches and NXOS was selected for the management switch, the license duration needs to be set in the PROD screen other else the JSON file will not be created. There is no need to select the NXOS license for the RPOD switches, just to set the license duration.
 3. Click on the “SAVE” button at the bottom to continue to the next section.
 4. When saved, the selected switches will be displayed in the overview screen at the left pane.

4.2.2.8 Switch Mappings

This option is enabled only when the previous section was saved.

Accessories		Export	
Prod Network	NSX-T	Management	Switch Mapping
Cabinets	Software		
			Add Pair Remove Pair
	Total # in config	Leaf pair #1	Remaining
Max-supported		24	
PFMC	4	4	0
Node #1	4	4	0
Total per pair		8	
		Reset Save	

1. PowerSizer calculates automatically the number of pairs required according to the number of nodes and switches and will present the mapping in the screen.
 2. The user can add additional pairs and change the mappings.

2.1. At the end click on the “SAVE” button at the bottom to continue to the next section.

4.2.2.9 Cabinets

The screenshot shows a configuration interface for a PowerFlex rack. The top navigation bar includes tabs for PROD NETWORK, NSX-T, MANAGEMENT, SWITCH MAPPING, CABINETS (which is highlighted in blue), and SOFTWARE. Below the tabs, there are several configuration fields:

- A toggle switch labeled "Is it an APEX solution?" is turned off.
- A field for "Pairs of side panels count" with a value of "1".
- A "Rack Name" field containing "Cabinet 42RU Black CRS (1 per cabinet)" with a radio button selected.
- A list of other cabinet options:
 - Cabinet 42RU White CRS (1 per cabinet)
 - Cabinet 48RU Black CRS (1 per cabinet)
 - Cabinet 48RU White CRS (1 per cabinet)
 - Shipping Cabinet
- Three toggle switches at the bottom:
 - Advance cooling? Vertical Exhaust Duct/Chimney (on)
 - 60A3P PDUs being access from above (on)
 - 3x5 Cool boot count (on)
- A dropdown menu for "Height between top of cabinet and ceiling" with a value of "16-26".
- Buttons for "RESET" and "SAVE" at the bottom right.

1. Enable the “is it an APEX solution” option, if an APEX solution is needed.
2. Select quantity for the “Pair of side panels count” option.
3. Select the required cabinet out of the listed cabinets.
4. Enable the “Advance cooling? Vertical Exhaust Duct/Chimney” option if required.
 - 4.1. Enable “60A3P PDUs being Access from above” if required.
 - 4.2. Enable “3x5 Cool boot count” if required
 - 4.3. Select the Height between the top of cabinet and ceiling”
5. Click on the “SAVE” button at the bottom to continue to the next section.
6. When saved, the selected switches will be displayed in the overview screen at the left pane.

4.2.2.10 Software

Note: Beginning May 29, 2025, PowerFlex Rack will be moving to subscription only options for software. Please see 411 – PowerFlex & Cloudlink Subscription Updates.

Term lengths between CloudLink and capacity licensing need to match.

The screenshot shows the 'Software' tab selected under the 'ACCESSORIES' section. The 'Software Titles' section contains two main configuration groups: 'PowerFlex Software' and 'Cloud Link'. The 'PowerFlex Software' group has a toggle switch set to 'On' with a note: 'Deselect this option if the customer has an existing Powerflex TLA'. It includes dropdowns for 'License Type *' (Standard), 'Duration *' (12 months), and 'Quantity' (134). The 'Cloud Link' group also has a toggle switch set to 'On' with a similar note. It includes a dropdown for 'Duration *' (12 months) with options 12, 36, 48, and 60 months, and a 'Quantity' field set to 77. At the bottom right are 'RESET' and 'SAVE' buttons.

1. Enable the “PowerFlex Software” in case a license is needed. Deselect In case of TLA.
 - 1.1. The capacity license tier and required capacity are calculated automatically by PowerSizer. Change it in case needed.
2. Enable “Cloud Link” license option if needed. Deselect In case of TLA.
 - 2.1. The capacity license tier and required capacity are calculated automatically by PowerSizer. Change it in case needed.
3. Click on the “SAVE” button at the bottom to continue to the next section.
4. When saved, the selected switches will be displayed in the overview screen at the left pane.

5. When finished all the ACCESSORIES section click on the “SAVE” button at the top of the screen.

6. When saved, the “PowerFlex Scenario” window will be displayed.

New PowerFlex Scenario

To Export the configuration XML and PowerPoint or to modify this configuration it must first be saved to one of your projects. This is to ensure tractability from sized configurations through to quoting and production.

Scenario Name *

Training

Description

0/255

Project *

PR1

CANCEL Save

6.1. Provide a name for the Scenario.

6.2. Enter description (Optional)

6.3. Assign it to a project.

6.4. Click on the Save button.

4.2.2.11 Export information to JSON

When finished the configuration, click on the export tab to validate the configuration and export to a JSON file. Be aware that when the information is exported to the JSON file, any change will not be allowed.

1. Provide the Opportunity ID. **Note for Fed/SLED customers toggle switch as shown below only if capacity software/cloudlink is included in configuration.**

^ Export options
Required options for exporting

Region
AMER

Set Toggle ON if this configuration is for a Fed/SLED customer

Enter the CPSD Opp ID number which begins with "P". The P # can be found in Dell Main under the Quote & Products tab and field named "CPSD Opportunity ID".
If this is a pricing exercise, you can use an existing closed/lost/won Opportunity ID, but you will be required to resize once you get a valid Opportunity ID

Opportunity Id *

EXPORT QUOTE

Quote

Quote wasn't exported yet.

When you export the Quote for a configuration, the Configuration, Sizing Revision, Scenario and Project will all be marked as "Locked" and you will be unable to delete them.
This is to ensure traceability of manufactured systems back to the original sizing-request.

Before exporting Quote you need to choose required export options on the top of this screen. Please note that you will not be able to change options after exporting

2. And Click on the “EXPORT QUOTE” button.
3. A popup window will appear to get confirmation to validate the configuration. Click “Confirm” to continue.

Sync Neptune Data

The PowerFlex rack configuration in PowerSizer is out of sync with Neptune build. Would you like to update PowerSizer with the latest build info from Neptune?

Cancel

Confirm

4. In case the validation passed, the JSON file will be presented on the screen. All the components and quantities will be presented.

The screenshot shows a software interface with a toolbar at the top containing icons for Save, Editor, Configurations (highlighted in blue), Revision 1, and Sharing (1). Below the toolbar, there are two tabs: ACCESSORIES and EXPORT (which is selected). Under the EXPORT tab, there is a section titled 'Export options' with a dropdown arrow. Below it, a 'Quote' section is displayed. On the right side of the quote section, there is a 'DOWNLOAD' button with a download icon. The main content area shows a JSON object representing a PowerFlex rack configuration. The JSON structure includes fields for 'Structures', 'Bases', 'Modules', and 'Options'. Each field contains detailed information such as names, descriptions, quantities, and specific component details like 'Cisco QSFP to SFP10G adapter'.

```
{
  "Structures": [
    {
      "Name": "Dell Sales Tool Export",
      "Qty": 1,
      "ConfigType": "NEW",
      "Model": "PowerFlex_Rack",
      "Bases": [
        {
          "Id": "0HSPX4",
          "Description": "Powerflex rack New System",
          "Qty": 1,
          "Modules": [
            {
              "Id": 1268,
              "Description": "Transceivers and adapters",
              "Options": [
                {
                  "Id": "GTXQ90U",
                  "Description": "Cisco QSFP to SFP10G adapter",
                  "Qty": 2
                }
              ]
            }
          ],
          "Bases": []
        }
      ]
    }
  ]
}
```

5. Download the JSON file to allow to import it to the DSC system.

5 Ordering a non-standard configuration

The PowerFlex Rack Deal Support/Impact Assessment (DS/IA) process is used to request non-standard configurations for our customers. During this process, approvals are obtained from affected functional teams to determine feasibility.

We are migrating this process to RPQ to improve efficiency and consolidate responses. RPQ process is already used today for Appliance and some Rack requests. SLA for (DS/IA) will remain the same in the new RPQ process. Below will be the new process going forward.

Step by Step Process for PowerFlex Rack RPQ Submission:

1. An Opportunity ID (Deal ID) should exist in Dell Main SFDC to document within the RPQ
2. For non-standard requests, submit a DASH request for the RPQ (SA) with Opportunity ID information included. **Specify PowerFlex Rack in the request.**

NOTE: To support teams that still utilize the VCE SFDC instance, approved RPQ data for PowerFlex Rack will be copied to the VCE SFDC OppID as a DS ticket.

Links:

DASH Presales Solution Services <https://dash-dellemc.tfaforms.net/f/dash>

5.1.1 Configurations that require deal support or RPQ

Configuration	Description	Ticket Required	Comments
Cisco ACI	PowerFlex rack or appliance running in ACI environment	RPQ	Whether in dual networking mode for rack and appliance in full network automation more or native in partial network automation mode for appliance
VMware NSX-T Ready	PowerFlex rack and appliance configured for NSX-T deployment	RPQ	Dell supports what we believe to be the best practice for PowerFlex which may not align with VMware's best practice. Checking to see if there is any potential conflict.
File Nodes	PowerFlex rack	RPQ	There are no plans to add any new file functionality post 4.6 release. There would no support for File features in the release where we support Erasure Coding.

6 DSC PowerFlex Rack Guided Journey Flow

6.1 Import JSON file into Guided Journey

6.1.1 Login into the Guided Journey Tool

1. Go to sales.dell.com

The screenshot shows the Dell Sales Application interface. On the left, there is a navigation menu with the following items:

- Home
- Customers
 - Configure Products
 - Search Products
 - Search Solutions
 - Create Solution** (highlighted with a red box)
 - Search Tags and Agreements
- Quotes

In the center, there is a "My Customers" section with a search bar and a "My Activity" dashboard. The activity dashboard shows data for the last 7 days across Quotes, Orders, Draft Quotes, and More. The "Quotes" tab is selected, showing a table with no rows. The table has columns for Created Date, Quote Number, Sold To Company, Status, and Action. At the bottom of the page, it says "0 to 0 of 0" and "Page 0 of 0".

2. From the menu at the left side of the screen: select “Configure Products” → “Create Solution”
3. Select the required Catalog. Catalog choice is dependent on your region and order type

Select a Catalog

Name	Company Numbers	
NPI Production	01	<button>Select</button>
NPI Staging	01	<button>Select</button>
Small Business (Offline)	04	<button>Select</button>
Inside Corp	05	<button>Select</button>
Offline US Global 500	06, 40, 41, 42	<button>Select</button>
Medium Business	08	<button>Select</button>
Small Business (Online)	12	<button>Select</button>
MPP	17, 23	<button>Select</button>
Corporate	18	<button>Select</button>
Consumer	19, 29	<button>Select</button>
Consumer ARB	22	<button>Select</button>
Public K12	26	<button>Select</button>
Commercial ARB	28	<button>Select</button>

4. The solutions screen will be displayed. Click on the “Create New Solution” button at the top right of the screen.

The screenshot shows the 'My Solutions' page. At the top, there is a header with the title 'My Solutions' and a 'Create New Solution +' button highlighted with a red box. Below the header, a message says 'You are seeing a list of all solutions'. There are search and filter options: 'Select Option' dropdown, 'Solution ID' dropdown, 'Enter Solution ID' input field, and a 'Search' button. Below these are 'Manage Labels' and 'Column Settings' dropdowns. A navigation bar at the bottom includes tabs for 'My Solutions' (selected), 'Favorites', 'Shared With Me', and 'My Quotes'. The main content area displays a table of solutions:

	Label	Quick View	Solution Name	ID	Compar
<input type="checkbox"/>	Preview	PowerFlex Rack GJ Testing	18419375.1 All Versions		
<input type="checkbox"/>	Preview	PowerFlex Rack	18197349.1 All Versions		

5. Enter solution **name** and click on the “**Create**” Button.

The screenshot shows a modal dialog titled 'Configure A New Solution'. On the left, there is a sidebar with a 'Create Solution' section and a 'Start from a new Draft Solution' link. The main area contains fields for 'Solution Name' (with 'Solution1' typed in) and 'Solution Category' (with 'General' selected). At the bottom are 'Cancel' and 'Create' buttons, with 'Create' highlighted with a red box.

6. Select your downloaded JSON file and click open. Wait for the JSON file to be imported.

Test #0.0

Configure Solution Solution Items

Browse Categories Product Home More Options All Products Search

Search for Configurable products, SnP, Customer Kits here.

Product Categories ⓘ

Configurable Products ⓘ Guided Journey Products ⓘ Software & Peripherals ⓘ

Customer Kits ⓘ

Import Sizer

Import By JSON File

Supported Product Family: PowerMax, PowerStore, PowerScale

Enter the Sizer ID Import

The screenshot shows a user interface for managing products. At the top, there are navigation links for 'Browse Categories', 'Product Home', 'More Options', and a search bar. Below this is a section titled 'Product Categories' with four categories: 'Configurable Products', 'Guided Journey Products', 'Software & Peripherals', and 'Customer Kits'. Under 'Configurable Products', there is a search bar and icons for a server and a monitor. Under 'Customer Kits', there is a search bar and icons for a server and a laptop. In the bottom right corner of the main area, there is a section titled 'Import Sizer' with two sub-options: 'Import By JSON File' and 'Import By Sizer ID'. The 'Import By JSON File' option has a red box drawn around it, indicating it is the focus of the current step. The 'Import By Sizer ID' option includes a note about supported product families: 'Supported Product Family: PowerMax, PowerStore, PowerScale' and a text input field for 'Enter the Sizer ID' followed by a 'Import' button.

- a. When finished, there are 2 ways to validate and modify the solution. Immediately when the import finished and for about a minute, opening the solution can be done by clicking the link in

The screenshot shows the Dell Product Home interface for 'Solution1 #0.0'. On the left, there's a navigation bar with 'My Solutions', 'Configure Products', 'Resources', 'Support', and 'Return To DSA'. The main area has tabs for 'Product Home' and 'More Options'. Below that is a search bar with 'All Products' and a 'Search' button. A sidebar on the right has a 'Click here for help' link. The central part of the screen is titled 'Import Sizer'. It contains three sections: 'Import By JSON File' (with a 'click to choose json file' button), 'Import By Sizer ID' (with a 'Supported Product Family: PowerMax, PowerStore, PowerScale' note and an 'Enter the Sizer ID' input field), and a green success message box containing the text: 'Success: Added Sizer product Successfully. Click here to Configure Product. You can add, remove, or change the quantities of some components in sizer-generated solutions. Complete your Configuration to review and make edits to services.' A red box highlights this success message.

the success message at the bottom of the screen (marked with the red box)

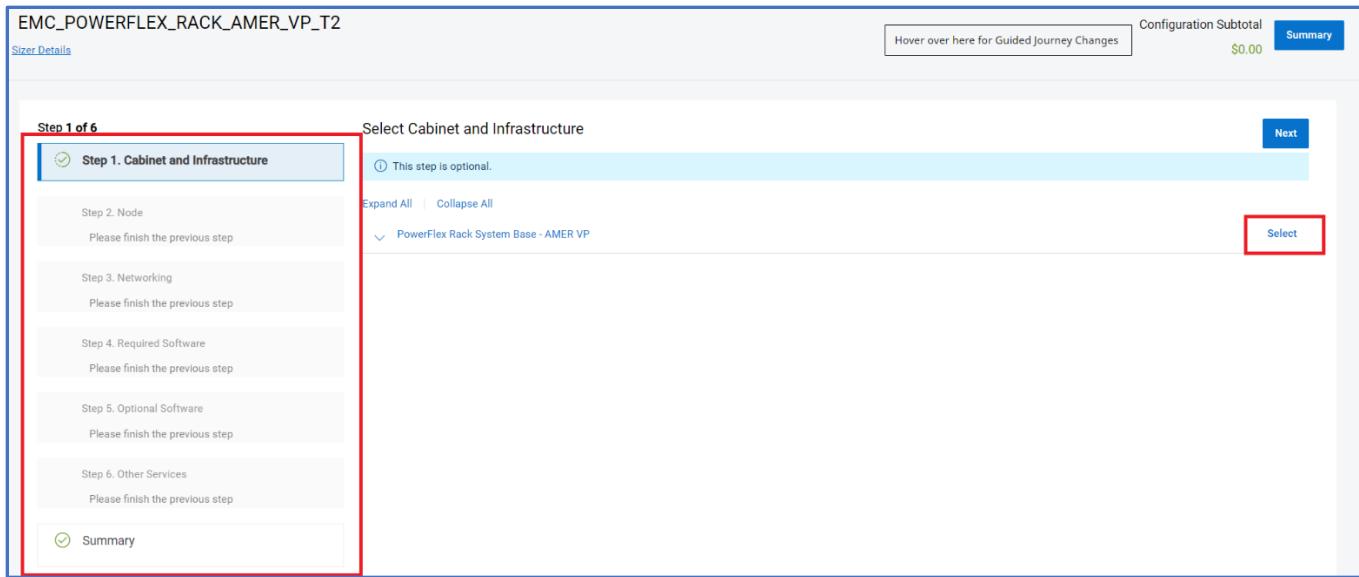
- b. In any other case, the solution can be accessed from the “Solution Items” button at the top-right of the screen.

The screenshot shows the Dell Product Home interface for 'Solution2_test2 #0.0'. The layout is identical to the previous one, with a navigation bar on the left, a main area with tabs and search bar, and a sidebar on the right with a 'Click here for help' link. The central 'Import Sizer' section is present. A red box highlights the 'Solution Items (1)' button located in the top right corner of the main content area.

7. Select the solution from the screen and click “Configure/Edit”.

The screenshot shows the 'Solutions Configurator' interface. At the top, it displays '0.0' and 'Test'. Below this, there are sections for 'Category: General' (Owner: Robin Mangahas, Last Modified: 11/3/2023 by Robin Mangahas), 'Catalog: 8' (Customer Name: [redacted], Customer Number: [redacted]), and a 'Summary' section with a 'Update Price' link. A navigation bar at the top includes 'Add Product', 'Product Configuration' (which is selected), 'Power & Cooling', 'Groups', 'Description/History', and 'Reminder: Drive Cross Sell'. Below the navigation bar are buttons for 'Search and add product' (with 'Add' and 'Add Blueprint'), 'Override Validation' (unchecked), and 'Validate'. A 'Remove All' button is also present. On the left, a list of components is shown under 'EMC_POWERFLEX_RACK_AMER_VP_T2': '1. EMC_POWERFLEX_RACK_AMER_VP_T2' (quantity 1). To the right of this list is a message: 'One or more guided journey steps are incomplete. Complete or re-visit all the steps before proceeding.' At the bottom right of the main area is a blue 'Configure/Edit' button, which is highlighted with a red box.

8. The solution information will be presented. The solution is an unsaved solution with the JSON attached to it, and all the selected components and some additional CRS that were added by PowerSizer according to the business rules. In addition, there will be indication for the additional actions that needs to be done to complete the solution.
9. **The configuration provided by PowerSizer will be uploaded to DSC and is blocked for modification. The user can only validate the configuration and add and fix support items/professional services if needed.**
10. The solution information will be presented in detail. At the left side, the navigation bar includes the steps:



11. To validate the selected step information, click on the “Select” option on the right panel. Moving back to one of the previous steps is possible by clicking on one of the steps prior to the current selected step. Clicking on “Next” moves you to the next Step.

6.2 Reviewing and Configuring Your Solution in DSA

PowerFlex rack hardware components are divided in the following categories

- Management Controller
- Network Switches
- PowerFlex nodes that provides compute and block Storage
- Physical Infrastructure – Cabinet and Smart PDUs
- Cables and network transceiver

All the above components are pre-selected as an output of PowerSizer and will not be editable. If you need to make changes start a new PowerSizer session to generate a new JSON file. Only service options will be configurable for your PowerFlex Rack solution.

6.3 Step 1 Cabinet and Infrastructure

Please reach out to PSS if you are not familiar with selecting support options. It is critical the correct service options are selected. The tool is currently limited on validation rules to prevent incorrect service options.

6.3.1 Select the required Dell Services Extended Service options for the customer: Module Id:30

Dell Services: Extended Service Module Id:30

Filter Options... X

Item ▲

ProSupport and 4Hr Mission Critical, 36 Month(s) Option Id: G4GTH6Q | SKU Id: 199-BJFK
Service Duration 3 Years ▾ Update

Please click on Update button after changing the Duration to retain the new Duration

ProSupport and Next Business Day Onsite Service, 36 Month(s) Option Id: G4LXEBC | SKU Id: 199-BJFI

Prosupport Plus and 4Hr Mission Critical, 36 Month(s) Option Id: G4MP8H2 | SKU Id: 199-BJFO

ProSupport Plus and Next Business Day Onsite Service, 36 Month(s) Option Id: G4WOT8U | SKU Id: 199-BJFM

ProSupport with 4-Hour Onsite Service, 36 Month(s) Option Id: GJ05T37 | SKU Id: 199-BPTD

In support of PowerFlex, Dell EMC gives customers choice and flexibility in how they plan, configure, support and manage their infrastructure – all with less customer effort and an accelerated path to productivity.

1. **ProSupport Plus:** When you recommend our highest level of support, customers get all the features of ProSupport and a higher level of personalization, including an assigned Technology Service Manager, priority access to ProSupport Plus engineers, as well as predictive analysis for issue prevention enabled by Secure Remote Services.
2. **ProSupport:** Ensures comprehensive 24x7 support with automated issue detection and case creation. It's a single source for your customer's hardware and OS support.
3. **ProSupport Next Business Day:** For out of radius customers only and DS is required. Ensures comprehensive 8x5xNBD support with automated issue detection and case creation.

Note: **Basic** is not available on PowerFlex Rack

Feature	Basic	ProSupport	ProSupport Plus
Remote technical support	9x5	24x7	24x7
Covered products	Hardware	Hardware Software	Hardware Software
Onsite hardware support	Next business day	Next business day or 4hr mission critical	Next business day or 4hr mission critical
Automated issue detection and case creation		●	●
Self-service case initiation and management		●	●
Access to software updates		●	●
Priority access to specialized support experts			●
3rd party software support			●
Assigned Technology Service Manager			●
Personalized assessments and recommendations			●

6.4 Step 1 PowerFlex Rack System Base

6.4.1 Select the required Infrastructure Deployment Services options for the customer: Module Id: 200735
 See [service offering index \(Residency, Deployment, Migration\)](#) for additional details.

Note: Logical build will complete at customer site due to Broadcom ESXi requirements

Filter Options... X

Item ▲

- 1 ProDeploy Plus PowerFlex Rack Base Deploy CloudLink LCS Configuration and Onsite Site Survey Option Id: GWJ2QV5 | SKU Id: 519-BBVH, 519-BDCV, 683-BCYR, 688-BBBG
- 1 ProDeploy Plus PowerFlex Rack Base Deploy CloudLink LCS Configuration and Remote Site Survey Option Id: GWKOZAE | SKU Id: 519-BBVH, 519-BDCV, 683-BCYR, 688-BBBH
- 1 ProDeploy Plus PowerFlex Rack Base Deploy LCS Configuration and Onsite Site Survey Option Id: GWNCO9A | SKU Id: 519-BDCV, 683-BCYR, 688-BBBG

⚠ The final unit price of this option may vary according to the quantity.
- 1 ProDeploy Plus PowerFlex Rack Base Deploy LCS Configuration and Remote Site Survey Option Id: GXZN3BG | SKU Id: 519-BDCV, 683-BCYR, 688-BBBH
- 1 No Dell Installation Service Required - Install by Certified Deployment Distributor Option Id: G4X2LMC | SKU Id: 519-BLDY, 519-BLDZ, 883-BBFK
- 1 No Dell Installation Service Required - Install by Certified Deployment Reseller Option Id: GVKP7BT | SKU Id: 519-BLDY, 519-BLDZ, 883-BBFL
- 1 Custom Field Deployment Dell SOW Required Option Id: GMV6U4P | SKU Id: 883-BBFM
- 1 No Dell Installation Service Required - Install by Certified Deployment Distributor Option Id: GJ4V0DE | SKU Id: 883-BBFK
- 1 No Dell Installation Service Required - Install by Certified Deployment Reseller Option Id: GKWCV4 | SKU Id: 883-BBFL
- 1 Select Legacy ProDeploy Suite from module 714 or 200437 Option Id: GJ6DM59 | SKU Id: 883-BBJM

Only 1 option can be selected with Qty 1. Partner Support is only available for EMEA and APJ.

- 1. ProDeploy Plus for PowerFlex rack Base Deploy LCS Configuration and Onsite Site Survey**
Base service provides for the deployment of a PowerFlex rack System configuration with either one (1) cabinet and covers all standard deployment tasks
The On-Site service provides for Logical Configuration Survey, Site Survey and Implementation planning. Delivered On-Site.
Required per system and include base 4 nodes.
- 2. ProDeploy Plus for PowerFlex rack Base Deploy LCS Configuration and Remote Site Survey**
Base service provides for the deployment of a PowerFlex rack System configuration with either one (1) cabinet and covers all standard deployment tasks
The Remote service provides for Logical Configuration Survey, Site Survey and Implementation planning. Delivered Remote.

Required per system and include base 4 nodes.

3. **ProDeploy Plus for PowerFlex rack Base Deploy CloudLink LCS Configuration and Remote Site Survey**
The Base logical configuration service provides for Pre-Logical Build Validation and Logical Configuration of all PowerFlex rack components
This service provides the base for a logical deployment and configuration of a CloudLink Controller Cluster for one (1) PowerFlex rack system
The Remote service provides for Logical Configuration Survey, Site Survey and Implementation planning. Delivered Remote.
Required per system and include base 4 nodes.
4. **ProDeploy Plus for PowerFlex rack Base Deploy CloudLink LCS Configuration and Onsite Site Survey**
The Base logical configuration service provides for Pre-Logical Build Validation and Logical Configuration of all PowerFlex rack components
This service provides the base for a logical deployment and configuration of a CloudLink Controller Cluster for one (1) PowerFlex rack system
The On-Site service provides for Logical Configuration Survey, Site Survey and Implementation planning. Delivered On-Site.
Required per system and include base 4 nodes.

6.5 Step 1 PowerFlex Rack System Base

- 6.5.1 Select the required **Infrastructure Additional Deployment Services** options for the customer: Module Id: 200737
See [service offering index](#) (Residency, Deployment, Migration) for additional details. Multiple options can be selected with multiple Qty.

Filter Options... ×

[Deselect all](#)

Item ◆

<input type="checkbox"/>	1	ProDeploy Plus Addon PowerFlex Rack 4 Node Configuration Option Id: G0IN6A3 SKU Id: 691-BBML
<input type="checkbox"/>	1	ProDeploy Plus Addon PowerFlex Rack 4 Node CloudLink Logical Configuration Option Id: G1UISEY SKU Id: 519-BDCS
<input type="checkbox"/>	1	ProDeploy Additional Deployment Time: 4 Hours Remote HCI Technical Resource Option Id: G5BPMXT SKU Id: 519-BBTS
BBTS		
<input type="checkbox"/>	1	ProDeploy Plus Addon PowerFlex Rack 4 Node Logical Configuration Option Id: G96UQ8Z SKU Id: 519-BDCT
<input type="checkbox"/>	1	ProDeploy Plus Addon PowerFlex Rack Cabinet install Option Id: G98NY5F SKU Id: 683-BCZD
<input type="checkbox"/>	1	ProDeploy Plus Addon PowerFlex Rack Customer Cabinet/Rack Integration Option Id: G9BVIKF SKU Id: 683-BCZF
<input type="checkbox"/>	1	ProDeploy Plus Addon PowerFlex Rack NSX T Hardware preparation Option Id: GBFYMK5 SKU Id: 683-BDRN
<input type="checkbox"/>	1	ProDeploy Plus Addon PowerFlex Rack Replication Integration Option Id: GBR4F2L SKU Id: 519-BBVY
<input type="checkbox"/>	1	ProDeploy Plus Addon PowerFlex Rack Site Readiness Assessment Option Id: GCGSW9D SKU Id: 688-BBBJ
<input type="checkbox"/>	1	ProDeploy Additional Deployment Time: 8 Hours Onsite HCI Technical Resource Option Id: GISOD4C SKU Id: 519-BBTT
BBTT		
<input type="checkbox"/>	1	ProDeploy Additional Deployment Time: 8 Hours Onsite Project Management Option Id: GUDQ6LM SKU Id: 519-BBCL

- 1. ProDeploy Plus Add-On for PowerFlex Rack, 4 Node CloudLink Logical Configuration**
This service provides the deployment and configuration of CloudLink Agents for up to four (4) Customer workload nodes in a Dell Technologies facility.
Required per 4 nodes increment above base 4. It can be sold in multiples. It must be sold with Base.
- 2. ProDeploy Plus Add-On for PowerFlex Rack, Cabinet install**
This Cabinet installation Add-on service provides for the deployment of an additional cabinet above base one (1). Includes configuration of network switches installed in the cabinet. Can be sold in multiples. Must be sold with deployment Base service.
- 3. ProDeploy Plus Add-On for PowerFlex Rack, 4 Node Logical Configuration**

The 4 Node add-on logical configuration service provides for logical configuration in 4 node increments. Required per 4 nodes increment above base 4. It can be sold in multiples. It must be sold with Base.

4. **ProDeploy Plus Add-On for PowerFlex Rack, Customer Cabinet/Rack Integration**
Customer Cabinet re-rack Add-On service provides for re-racking into Customer cabinet. Can be sold in multiples on per cabinet.
5. **ProDeploy Plus Add-On for PowerFlex Rack, NSX T HW preparation**
If NSX-T is included, NSX-T Hardware Preparation add-on service is required per system. Provides for preparation of hardware for NSX-T deployment in field.
6. **ProDeploy Plus Add-On for PowerFlex Rack, Replication Integration**
This service provides for the final configuration of the Async Replication feature at the customer site between two net new systems that have been prepared for in a Dell Technologies Factory.
7. **ProDeploy Plus Add-On for PowerFlex Rack, Site Readiness Assessment**
Site Readiness Assessment Add-On service provides for assessment of customer's data center readiness for PowerFlex Rack. Performed by Panduit. Sold per system.
8. **ProDeploy Additional Deployment Time:8 Hour Onsite Project Management**
This service provides 8 hours block time of Project Management. Can be sold in multiples.
9. **ProDeploy Additional Deployment Time:4 Hour Remote Hyper-converged Infrastructure Technical**
This service provides 4 hours block time of Technical resource. Can be sold in multiples.
10. **ProDeploy Additional Deployment Time:8 Hour Onsite Hyper-converged Infrastructure Technical**
This service provides 8 hours block time of onsite Technical resource. Can be sold in multiples.
11. **Logical Configuration for Partner Deployed PowerFlex Rack 4 Node Add-On**
Each system requires one Base fee plus the four (4) Node Add-On fee in four (4) node increments based on number of nodes.
Partner logical and deployment are only available for EMEA and APJ.
12. **Logical Configuration for Partner Deployed PowerFlex Rack NSX T Hardware Preparation**
If NSX-T is included, NSX-T Hardware Preparation add-on service is required per system.
NST-T partner logical only available for EMEA and APJ.

6.6 Step 2 Node

6.6.1 Enterprise Data Migration/Sanitization/Destruction Services Optional

- ▽ [Data Sanitization and Data Destruction for Enterpr](#) Module Id:200401
- ▽ [Enterprise Data Migration Services](#) Module Id:200485
- ▽ [Enterprise Additional Data Migration Services](#) Module Id:200486

1. **Data Migration**

Data Migration Services are available for block, file, virtual, cloud and object storage.

2. Data Sanitization for Enterprise (Onsite or Remote). Multi-select/Qty

Data Sanitization for Enterprise: This service uses proprietary techniques and industry tools to sanitize data residing on storage systems in alignment with best practices for media sanitization. The services are available for both full system erasure and for storage media after proactive replacement.

3. Data Destruction for Enterprise (Onsite or Remote). Multi-select/Qty

Renders media and underlying data unusable and inaccessible through the process of physical shredding, disintegration, pulverizing, melting or incinerating. This supports customers going through an asset refresh, retirement, resale or return. The data that exists on those systems will be rendered unrecoverable, providing the customer the assurance that their sensitive data won't fall into the wrong hands, limiting risk and enabling compliance with government NIST standards. Data Destruction services are applicable to functional as well as non-operational systems.

4. Multi-Vendor: Applies to Data Sanitization and Data Destruction for Non-Dell EMC Products.

6.7 Step 2 Node

6.7.1 If number of nodes >25 Select MABD Sku in each node configuration (Amer Only)

① **MABD Reminder:** PowerFlex rack R650 - AMER VP includes **MABD SKU 800-BBCF**, please ensure an MABD date is included on your quote. Please review [FY24 MABD Process deck](#) to ensure desired items have the SKU tied appropriately.

MABD SKU must be included in all node configurations in a PowerFlex rack solution that has more than 25 nodes in total. You can read more about MABD and conditions in following link: [MABD FY24 Process Deck](#).

The screenshot shows the configuration interface for a PowerFlex rack R650 - AMER VP. The top navigation bar indicates "Step 2 of 6" and "PowerFlex rack R650 - AMER VP". The main area is titled "Configure Your Node". A warning message states: "Warning View 1 solutions warning" and "Support & Services prices are dependent on Hardware & OS selections". Below this, there are tabs for "Step 2. Node", "Step 3. Networking", "Step 4. Required Software", and "Step 5. Optional Software". The "Step 2. Node" tab is selected. Under "Step 2. Node", there are sections for "Base", "IDM Configuration", "Trusted Platform Module", "Processor", and "Additional Processor". The "Processor" section lists two Intel Xeon Gold 6326 processors. A red arrow points to the "Processor" section.

Transportation from ODM to region Module Id:200080

Item ▲

MABD, PowerFlex Future Ship Date Option Id: GZ7IGSF | SKU Id: 800-BBCF
 None

Note: the selected support option will be propagated to all configuration items. There are 2 exceptions that will need to be validated:

1. Switches support
2. VMWare support

6.8 Step 3. Networking

Note: Switches and Nodes must match service length terms. Please reach out to PSS if you are not familiar with selecting support options. It is critical the correct service options are selected. The tool is currently limited on validation rules to prevent incorrect service options.

6.8.1 Cisco Switches Require Support Skus to be selected and match overall solution
Module Id: 30 (All Regions). Example below.

Dell Services: Extended Service Module Id:30

Item ▲

N93240YCFX2 ProSupport and 4Hr Mission Critical, 36 Month(s) Option Id: GKHW3SD | SKU Id: 199-BJGZ
 N93240YCFX2 ProSupport and Next Business Day Onsite Service, 36 Month(s) Option Id: GLQ6PCH | SKU Id: 199-BJGX
 N93240YCFX2 ProSupport Plus and 4Hr Mission Critical, 36 Month(s) Option Id: GOFLXZ0 | SKU Id: 199-BJGY
 N93240YCFX2 ProSupport with 4-Hour Onsite Service, 36 Month(s) Option Id: GIJYMC2 | SKU Id: 199-BQDD

Service Duration

3 Years

Please click on Update button after changing the Duration to retain the new Duration

6.8.2 Dell Networking Switches Require Support Skus to be selected and match overall solution.

Module ID : 29 (Amer/APJ)

The screenshot shows a list of support service options under the heading "Hardware Support Services Module Id:29". A "Filter Options..." search bar is at the top. The list is ordered by "Item" and includes the following options:

- 1 Year ProSupport with Next Business Day Onsite Service Option Id: G2QASUM | SKU Id: 818-5110, 818-5123, 818-5139, 989-3439, 997-6306
- 1 Year ProSupport Plus Mission Critical 4Hr Onsite Service Option Id: G300C5U | SKU Id: 818-5110, 818-5151, 818-5152, 951-2015, 997-6306
- 3 Years ProSupport with Next Business Day Onsite Service Option Id: G4ZGT0N | SKU Id: 818-5110, 818-5123, 818-5124, 818-5142, 975-3461, 989-3439, 997-6306
- 3 Years ProSupport Plus Mission Critical 4Hr Onsite Service Option Id: G50QAV0 | SKU Id: 818-5110, 818-5152, 818-5155, 818-5156, 951-2015, 975-3461, 997-6306
- 4 Years ProSupport with Next Business Day Onsite Service Option Id: G8LXAC0 | SKU Id: 818-5110, 818-5123, 818-5223, 818-5224, 975-3461, 989-3439, 997-6306
- 4 Years ProSupport Plus Mission Critical 4Hr Onsite Service Option Id: G9DR0BL | SKU Id: 818-5110, 818-5152, 818-5219, 818-5220, 951-2015, 975-3461, 997-6306
- 5 Years ProSupport with Next Business Day Onsite Service Option Id: GOPD1Z0 | SKU Id: 818-5110, 818-5123, 818-5125, 818-5145, 975-3461, 989-3439, 997-6306
- 5 Years ProSupport Plus Mission Critical 4Hr Onsite Service Option Id: GD6XS4Q | SKU Id: 818-5110, 818-5152, 818-5159, 818-5160, 951-2015, 975-3461, 997-6306
- 1 Year ProSupport and 4 Hrs Onsite Service Option Id: G8LXAC0 | SKU Id: 818-5110, 818-5123, 818-5223, 818-5224, 975-3461, 989-3439, 997-6306

Module ID: 29 and 30 (EMEA)

The screenshot shows the PowerSizer software interface for selecting warranty and support services. The 'Base warranty' section is expanded, showing one selected option: '1Yr Return to Depot - Minimum Warranty' (Option Id: GT400ZR, SKU Id: 709-13025, 709-17015, 709-17016, 710-73324). The 'Support Services' section is also expanded, showing a list of various ProSupport options. One option is selected: '3Yr ProSupport and 4-Hour Onsite Service' (Option Id: GWPID6K, SKU Id: 199-25115, 199-25291).

Base warranty Module Id:29

Item ▲

1Yr Return to Depot - Minimum Warranty Option Id: GT400ZR | SKU Id: 709-13025, 709-17015, 709-17016, 710-73324

Support Services Module Id:30

Filter Options... X

Item ▲

4Yr ProSupport and Next Business Day On-Site Service Option Id: GOUBP7X | SKU Id: 865-85420, 865-85450

1Yr ProSupport and Next Business Day On-Site Service Option Id: GTCIG2F | SKU Id: 865-85419

4Yr ProSupport Plus and 4hr Mission Critical Option Id: GTDY08Z | SKU Id: 528-10337, 865-85431, 865-85449

4Yr ProSupport Plus and Next Business Day On-Site Service Option Id: GTEK0VW | SKU Id: 528-10337, 865-85435, 865-85452

3Yr ProSupport and Next Business Day On-Site Service Option Id: GTL5IW6 | SKU Id: 865-85420, 865-85421

5Yr ProSupport and Next Business Day On-Site Service Option Id: GTVHE2Z | SKU Id: 865-85420, 865-85422

1Yr ProSupport Plus and 4hr Mission Critical Option Id: GX0TM7F | SKU Id: 528-10337, 865-85429

3Yr ProSupport Plus and 4hr Mission Critical Option Id: GY40U1G | SKU Id: 528-10337, 865-85430, 865-85431

5Yr ProSupport Plus and 4hr Mission Critical Option Id: GY84I6V | SKU Id: 528-10337, 865-85431, 865-85432

1Yr ProSupport Plus and Next Business Day On-Site Service Option Id: GYGIHC2 | SKU Id: 528-10337, 865-85434

3Yr ProSupport Plus and Next Business Day On-Site Service Option Id: GYGPJU1 | SKU Id: 528-10337, 865-85435, 865-85436

5Yr ProSupport Plus and Next Business Day On-Site Service Option Id: GYX6OT2 | SKU Id: 528-10337, 865-85435, 865-85437

4Yr ProSupport and 4-Hour Onsite Service Option Id: G85F9N0 | SKU Id: 199-25139, 199-25291

1Yr ProSupport and 4-Hour Onsite Service Option Id: GCNEH3Y | SKU Id: 199-25076

3Yr ProSupport and 4-Hour Onsite Service Option Id: GWPID6K | SKU Id: 199-25115, 199-25291

6.9 Step 4 Required Software and Step 5 Optional Software

Note: VMware options have been removed due to contractual requirements...see VMware Removal 411 for additional information. Other selections will be prefilled by PowerSizer. CloudLink is optional.

EMC_POWERFLEX_RACK_AMER_VP_T2

[Order Details](#)

Step 6 of 6

<input checked="" type="checkbox"/> Step 1. Cabinet and Infrastructure	+Add
PowerFlex Rack System Base - AMER VP	1 ...
<input checked="" type="checkbox"/> Step 2. Node	+Add
PowerFlex rack R650 - AMER VP	5 ...
<input checked="" type="checkbox"/> Step 3. Networking	+Add
<input checked="" type="checkbox"/> Step 4. Required Software	+Add
<input checked="" type="checkbox"/> Step 5. Optional Software	+Add
<input checked="" type="checkbox"/> Step 6. Other Services	+Add
Summary	

6.9.1 Step 4 Cisco Software

Note: Subscription Software does not require support services selections.

Module id: 1651 Determines module id: 433 Options

Use Filter Options Box to reduce service in module id: 433 Options. Ex: 9300 10G

Abbr Code	Key Word to add support
NX-OS ADV 9300 XF2 10G+	9300 XF2
NX-OS ADV XF 3K	XF 3K
NX-OS ADV 9300 10G+	9300 10G
1G 9K	1G 9K

Support Services should match Support type selected in step 1. (#yrs/term)

^ [Licenses](#) Module Id:1651

Filter Options... X

Item Price

<input type="checkbox"/> NX-OS Advantage license for Nexus 9300 (XF2 10G+) Platforms	Option Id: GF6YC5A SKU Id: 149-BBQK	\$69,854.00
<input type="checkbox"/> NX-OS Advantage for XF Nexus 3K	Option Id: GFA20N3 SKU Id: 149-BBQI	\$17,905.00
<input checked="" type="checkbox"/> 14 NX-OS Advan Licence 9300(10G+Platforms)=	Option Id: GCJ02T6 SKU Id: 149-BBQH	\$389,242.00
<input type="checkbox"/> NX-OS Advantage license for a 1G Nexus 9K	Option Id: GIDJOH8 SKU Id: 149-BBWK	\$11,643.00
<input type="checkbox"/> DCN Essentials Term for 1G (GF)-Embedded Support 3YR	Option Id: G6LS9E0 SKU Id: 153-BBSR	\$6,848.00
<input type="checkbox"/> DCN Essentials Term for 1G (GF)-Embedded Support 4YR	Option Id: GCIJNG9 SKU Id: 153-BBSK	\$9,130.00
<input type="checkbox"/> DCN Essentials Term for 1G (GF)-Embedded Support 5YR	Option Id: G6ZB2OC SKU Id: 153-BBSO	\$8,623.00
<input type="checkbox"/> DCN Essentials Term,9300,10G+(XF2)-Embedded Support 3YR	Option Id: GVRNT0D SKU Id: 153-BBSM	\$34,181.00
<input type="checkbox"/> DCN Essentials Term,9300,10G+(XF2)-Embedded Support 4YR	Option Id: GVZT82I SKU Id: 153-BBSN	\$45,575.00
<input type="checkbox"/> DCN Essentials Term,9300,10G+(XF2)-Embedded Support 5YR	Option Id: GW1R0AL SKU Id: 153-BBSJ	\$43,115.00
<input type="checkbox"/> DCN Essentials Term,10/25/40/100G(XF)-Embedded Support 3YR	Option Id: GF0A2Q5 SKU Id: 153-BBSL	\$20,606.00
<input type="checkbox"/> DCN Essentials Term,10/25/40/100G(XF)-Embedded Support 4YR	Option Id: GJ2VM90 SKU Id: 153-BBSP	\$27,475.00
<input type="checkbox"/> DCN Essentials Term,10/25/40/100G(XF)-Embedded Support 5YR	Option Id: GU6YG4D SKU Id: 153-BBSQ	\$25,870.00
<input type="checkbox"/> DCN Security License for Nexus 9K Fixed Switch, Spare	Option Id: GNF9BSO SKU Id: 149-BBQM	\$5,960.00

^ [Sftwr Svcs - Cisco](#) Module Id:433

9300 10G X

[Deselect all](#)

Item

<input type="checkbox"/> ProSupport PFx rack Cisco NX-OS ADV 9300 10G+ Plfm Stwr Spt, 12 Month(s)	Option Id: G4BK76S SKU Id: 821-BBHJ
<input type="checkbox"/> ProSupport Plus Mission Critical PFx rack Cisco NX-OS ADV 9300 10G+ Plfm Stwr Spt, 12 Month(s)	Option Id: G7XE491 SKU Id: 821-BBHL
<input type="checkbox"/> ProSupport Plus Next Business Day PFx rack Cisco NX-OS ADV 9300 10G+ Plfm Stwr Spt, 12 Month(s)	Option Id: GZ2JG1B SKU Id: 821-BBHK
<input type="checkbox"/> ProSupport Next Business Day PFx rack Cisco NX-OS ADV 9300 10G+ Plfm Stwr Spt, 12 Month(s)	Option Id: GZL5QYO SKU Id: 821-BBHI

6.9.2 Step 5 Selecting CloudLink service options (Optional)

Step 5 of 6

<input checked="" type="checkbox"/> Step 1. Cabinet and Infrastructure +Add	CloudLink for PowerFlex - AMER VP	
Configure Your Optional Software		
⚠ Warning View 3 solutions warning		
ⓘ Support & Services prices are dependent on Hardware & OS selections		
Expand all modules Collapse all modules Configuration Settings		
<input checked="" type="checkbox"/> CloudLink Module Id:1 CloudLink		
<input checked="" type="checkbox"/> License Type Module Id:1318 New Licenses		
<input checked="" type="checkbox"/> Current Licenses (Upgrade Path Only) Module Id:1537 None		
<input checked="" type="checkbox"/> Additional Licenses (Upgrade Path Only) Module Id:1542 None		
<input checked="" type="checkbox"/> CloudLink Encrypt for PowerFlex Module Id:1540 12 CloudLink Encrypt PowerFlex Tier 1=CB		
<input checked="" type="checkbox"/> CloudLink Encrypt for Machines Perpetual Module Id:1515 None		
<input checked="" type="checkbox"/> CloudLink Key Mgmt over KMIP Module Id:1530 None		
<input checked="" type="checkbox"/> CloudLink Key Mgmt for SED Module Id:1535 None		
<input checked="" type="checkbox"/> Services Deployment Services Module Id:714 No Installation		
<input checked="" type="checkbox"/> Service Additional Deployment Services Module Id:1277		
Step 5. Optional Software		
<input checked="" type="checkbox"/> Step 6. Other Services +Add		
<input checked="" type="checkbox"/> Summary		

Software Services - CloudLink (VP) Module Id:200340

Item ◆

ProSupport Plus Mission Critical CloudLink Software Support-Maintenance, 36 Month(s) Option Id: GEM5ZC3 SKU Id: 487-BHNE

ProSupport CloudLink Software Support-Maintenance, 36 Month(s) Option Id: GY7ATFP SKU Id: 487-BHND Service Duration 3 Years [Update](#)

Please click on Update button after changing the Duration to retain the new Duration

NO WARRANTY UPGRADE SELECTED, 36 Month(s) Option Id: GKQE3CR SKU Id: 883-BBBB

None Option Id: None

6.10 Step 6 Other Services

The screenshot shows the 'Step 6 of 6' configuration screen. On the left, there is a list of steps: Step 1. Cabinet and Infrastructure, Step 2. Node, Step 3. Networking, Step 4. Required Software, Step 5. Optional Software, and Step 6. Other Services (which is selected). On the right, there is a 'Select Other Services' panel with the following content:

- A note: "This step is optional."
- Buttons: "Expand All" and "Collapse All".
- A red box highlights the following sections:
 - "PowerFlex Additional Services - AMER VP":
 - PowerFlex RCM Upgrade
 - ProDeploy Plus for PowerFlex Rack System Software Upgrade, 4 Node Base Deploy
 - "PowerFlex Residency Services - AMER VP":
 - PowerFlex Residency Services
- A "Select" button at the bottom right of the highlighted area.

6.10.1 RCM Upgrade Deployment Services

Options visible in Module id: 200438 are dependent on selected options on module id: 200437

The screenshot shows the 'RCM Upgrade Deployment Services' configuration screen. It includes the following sections:

- Base** Module Id:1: PowerFlex RCM Upgrade
- Differential Discounting - Deployment Services** Module Id:200437:
 - Item**:
 - ProDeploy Plus for PowerFlex Rack System Software Upgrade, 4 Node Base Deploy Option Id: GT5Q7AJ | SKU Id: 876-6144
 - ProDeploy for PowerFlex Rack System Software Upgrade, 4 Node Base Deploy Option Id: GTW4GCZ | SKU Id: 876-6134
 - ProDeploy for PowerFlex Rack System Software Upgrade with Manager Automation, 4 Node Base Deploy Option Id: GUY39SB | SKU Id: 876-6132
 - ProDeployPlus for PowerFlex Rack System Software Upgrade with Manager Automation, 4 Node Base Deploy Option Id: GVAEX9W | SKU Id: 876-6145
- Differential Discounting - Additional Deployment S** Module Id:200438:
 - Deselect all**
 - Item**:
 - ProDeploy Plus Add-On for PowerFlex Rack System Software Upgrade, 4 Node Deploy Option Id: GQJ3IP2 | SKU Id: 876-6137
 - ProDeploy Plus Add-On for PowerFlex Rack System Software Upgrade, CloudLink Deploy Option Id: GJVY9CTO | SKU Id: 876-6142

1. ProDeploy Plus for PowerFlex rack Software Upgrade, 4 Node Base Deploy

This service provides the activities, tasks, and skills to perform Release Certification Matrix (RCM) software upgrades for one PowerFlex rack System with up to four nodes. The service includes an assessment to ensure the system stability, planning, preparation, and remediation activities based on the assessment results. Also includes in-region project management and 30-day post deployment configuration assistance. All work is done onsite.

2. ProDeploy Plus Add-On for PowerFlex rack Software Upgrade, 4 Node Deploy

This service provides software upgrades for up to four additional nodes in the PowerFlex rack System. Can be sold multiples in 4 node increment.

3. ProDeploy Plus Add-On for PowerFlex rack Software Upgrade, Cloudlink Deploy

This service provides upgrade of CloudLink Agents running on up to (4) PowerFlex rack nodes when implemented as part of the PowerFlex rack system system upgrade. Can be sold multiples in 4 node increment.

4. ProDeploy for PowerFlex rack Software Upgrade, 4 Node Base Deploy

This service provides the activities, tasks, and skills to perform Release Certification Matrix (RCM) software upgrades for one PowerFlex rack System with up to four nodes. The service includes an assessment to ensure the system stability, planning, preparation, and remediation activities based on the assessment results. All work is done remote.

5. ProDeploy Add-On for PowerFlex rack Software Upgrade, 4 Node Deploy

This service provides software upgrades for up to four additional nodes in the PowerFlex rack System. Can be sold multiples in 4 node increment.

6. ProDeploy Add-On for PowerFlex rack Software Upgrade, Cloudlink Deploy

This service provides upgrade of CloudLink Agents running on up to (4) PowerFlex rack nodes when implemented as part of the PowerFlex rack system system upgrade. Can be sold multiples in 4 node increment.

6.10.2 Residency Services: Module Id: 688

[Residency Services](#) Module Id:688

[Deselect all](#)

Item 

Onsite Residency for HyperConverged Infrastructure, 5 Days for 1 Week Option Id: GUNKL08 | SKU Id: 848-9020

Remote Residency for HyperConverged Infrastructure, 5 Days for 1 Week Option Id: GS95H17 | SKU Id: 848-9015

Onsite Residency for PowerFlex rack, 5 Days for 1 Week

- Provides customers with a resource with rack expert knowledge of Dell EMC PowerFlex rack products. The resident expert is capable of performing tasks defined in the offer scope. This SKU is available to quote on a weekly basis with a 4-week minimum.

Remote Residency for PowerFlex rack, 5 Days for 1 Week

- Provides customers with a resource with expert knowledge of Dell EMC PowerFlex rack products. The resident expert is capable of performing tasks defined in the offer scope. This SKU is available to quote on a weekly basis with a 2-week minimum.

Custom Residency

- This is Custom Residency Offering if standard SKUs do not fit Customer residency requirements. Please work with CoC to generate Custom Statement of Work (CSOW).

7 Push to Quote

Make sure CIA ambassador is copied on all quotes.

8 Expansion Ordering Process

*****System Expansions*****

- Expanding existing PowerFlex systems with new protection domains is the preferred expansion scenario
- Differences in drive type or network vendor and speed **will** require a new protection domain (minimum three nodes required)
- If expanding existing protection domains, some additional consideration may be required (seen in the PowerFlex rack expansion guide [found in SolVe](#))
 - *There is no restriction in mixing the generations of PowerFlex nodes in a cluster. If you are mixing the multiple generations of PowerFlex nodes in the same protection domain, ensure that such PowerFlex nodes have the same network topology, speed, drive capacity, and type.*
 - *The operational performance is dictated by the slowest PowerFlex node in the protection domain. Any expected operational performance gains are not realized until all the older PowerFlex nodes are removed.*

Step 1: Open PowerSizer <https://powersizer.dell.com>. Give your solution a name. Under “Build Type” select “Expansion”

The screenshot shows the PowerSizer application interface. At the top, there's a header with "Untitled Scenario", "SAVE", "EDITOR" (which is underlined), "CONFIGS", and "REV 1". Below the header, on the left, is a sidebar titled "Rack Solution" with the sub-section "PowerFlex Rack System" and "New System". On the right, the main panel is titled "Rack Solution" and contains fields for "Solution Name" (set to "Rack Solution"), "Build Type" (set to "New System", with "Expansion" highlighted by a green box), "Region" (set to "AMER"), and a toggle switch for "Arista Switches". A blue "CREATE SOLUTION" button is at the bottom.

Step 2: Once Expansion and appropriate region are selected, “Create Solution”

- Select “ACT Orders” for new builds sold through ACT
- Select “Common Seller Tools Orders (DSA or Gii)” for new builds sold through CST
- Hit “Search”

Rack Solution

This screenshot shows the "Rack Solution" search interface. It includes fields for "Solution Name" (collapsed), "Ordering Guide Steps" (collapsed), "Build Type" (set to "Expansion"), "Network Speed" (set to "25Gbps"), "Region" (set to "AMER"), and a toggle switch for "Arista Switches". Below these, there's a note about past order IDs and two search options: "ACT Orders" and "Common Seller Tools Orders (DSA or Gii)", both of which are highlighted with green boxes. At the bottom, there are fields for "Order ID (Optional)" (containing "PT189057") and "Config Group (Optional)", and a blue "SEARCH" button.

Step 3: Use the most recent CPSD Opportunity ID and verify proper formatting. **This is critical to ensure the complete system is included.** After entering Opportunity ID, hit “Search”

Rack Solution

Solution Name *
Ordering Guide Steps

Build Type *
Expansion

Network Speed *
25Gbps

Region * 
AMER

Arista Switches

Enter the past order ID information to search and select the past build *

ACT Orders

Last Opportunity ID (Required) *
P1189057

Order ID (Optional)

Config Group (Optional)

SEARCH

Step 4: Choose your correct build based on “order id” and “config group” then hit “continue”

Last Opportunity ID (Required) *
P1189057

Order ID (Optional)

Config Group (Optional)

SEARCH

	Opportunity Id	Order Id	Config group	Build Id	Build name
<input type="radio"/>	P1189057			100922	GAL_20220922143549784
<input type="radio"/>	P1189057			101796	20221123170038193_GAL
<input type="radio"/>	P1189057			101825	20221123150302827
<input type="radio"/>	P1189057			101844	20221123150302827A
<input checked="" type="radio"/>	P1189057	51808	01	102290	GLOBAL AEROSPACE LOGISTICS LLC, EDGE Amroc Blue, MAIN

CONTINUE

Step 5: This will show Base Build Details which will include all systems previously sold to the customer. Hit “Create Solution” after reviewing. You can also download solution abstract from this page if needed.

The screenshot shows the 'Base Build Details' page for 'Ammroc Blue, MAIN'. It includes the following sections:

- Solution Abstract:** Shows a table for 'Switch Pair' and 'Leaf/Access Switch'. The table has two rows:

Switch Pair	Leaf/Access Switch
1	S5248F-ON (SXF)
2	S5248F-ON (SXF)
- Rack Details:** Shows two racks:

Rack	Color	Total RU	Used RU	Available RU
Rack 1	Black	42	32	10

 and

PDU	PDU Count
G5 32A 3P	4
- Node Roles:** Shows the distribution of nodes:

Management Node	Compute Node	Hyperconverged Node
4 x Management Node	12 x Compute Node	0 x Hyperconverged Node
0 x NSX Node	3 x Storage Node	0 x File Node
- Rack 2 Details:** Shows two racks:

Rack	Color	Total RU	Used RU	Available RU
Rack 2	Black	42	27	15

 and

PDU	PDU Count
G5 32A 3P	4
- Node Roles:** Shows the distribution of nodes for Rack 2:

Management Node	Compute Node	Hyperconverged Node
0 x Management Node	11 x Compute Node	0 x Hyperconverged Node
2 x NSX Node	4 x Storage Node	0 x File Node
- Create Solution:** A blue button at the bottom left.

Step 6: Expansions can be done with or without nodes. Add nodes to configuration or if nodes are not required proceed to “size scenario”.

The screenshot shows the 'Rack Solution' configuration page with the 'SIZE SCENARIO' tab selected. It includes the following sections:

- Storage:** Shows a 'SimpleSizer' toggle switch, 'INPUTS' tab, and 'FILTERS' tab.
- General:** Shows 'Storage Data Layout' (Medium Granularity), 'Minimum MG Capacity (Usable)' (5 TiB), and 'Workload' settings (Read/Write Ratio slider at 70%R - 30%W).
- Workload:** Shows a slider for 'Read/Write Ratio' ranging from 70%R to 30%W.
- Buttons:** 'RESET INPUTS' and 'SEARCH' buttons.
- Nodes Summary:** Shows a table for 'Rack' and 'Available RU' (Rows 1 and 2), and a table for 'Switch Pair' and 'Name' (Rows 1 and 2).
- Node Summary:** A section with a '+ Click to add nodes' button.

Step 7: Go to “Accessories” and choose networking options and quantities. Hit “Save”

OVERVIEW **ACCESSORIES** **EXPORT**

PROD NETWORK NSX-T MANAGEMENT SWITCH MAPPING CABINETS SOFTWARE

Network Parallel Spine links

Access/Agg (25G)

Access Switches
Optional

Number of switches: 1

Vendor	Model	Connectivity	Speed up	Ports up	Speed down	Ports down	
<input type="radio"/>	Dell	S5248F-ON	2x100G AOC	100/200G	4xQSFP28	10/25G	48xSFP28
<input type="radio"/>	Dell	S5248F-ON	2x100G BiDi (LC Fiber)	100/200G	4xQSFP28	10/25G	48xSFP28

Aggregation Switches
Selected option: Dell S5232F-ON (4x10G (Breakout cables))
Optional

NEXT **RESET** **SAVE**

Step 8: Choose generation of NSX-T nodes and VMs, if needed. Hit “Save”. If NSX-T nodes are not needed, continue to Management

NSX-T edge node

Generation	Model	CPU	RAM	Drives	Storage	
<input checked="" type="radio"/>	16G	NSX-T R660 SM	2 x Intel Xeon Gold 6426Y (16 Cores, 2.5 GHz)	256GB RDIMM	5 x 1.92 TB SAS	9.6 TB
<input type="radio"/>	15G	NSX-T R650 LG	2 x Intel Xeon Gold 6326 (16 Cores, 2.9 GHz)	512GB RDIMM	5 x 1.92 TB SATA	9.6 TB
<input type="radio"/>	15G	NSX-T R650 SM	2 x Intel Xeon Gold 6326 (16 Cores, 2.9 GHz)	256GB RDIMM	5 x 1.92 TB SATA	9.6 TB

Storage type *	Number VMs *	Number of NSX-T edge nodes *
Standard	2-4	2

RESET **SAVE**

Step 9: Add Management nodes and switches, if needed. Hit “Save”. If management nodes/switches are not needed, continue to Switch Mapping

- Management node selection

PROD NETWORK NSX-T MANAGEMENT SWITCH MAPPING CABINETS SOFTWARE

Management Controller Nodes

Selected option: 16G-MGMTSM
Optional

Number of nodes: *						
1	<input type="button" value="▼"/>					
Generation	Model	CPU	RAM	Drives	Storage	
<input type="radio"/>	16G	FLEX-MGMT-LG R660	2 x Intel Xeon Gold 6426Y (16 Cores, 2.5 GHz)	512GB RDIMM	10 x 1.92 TB SAS	19.2 TB
<input checked="" type="radio"/>	16G	FLEX-MGMT-SM R660	2 x Intel Xeon Gold 6426Y (16 Cores, 2.5 GHz)	512GB RDIMM	5 x 1.92 TB SAS	9.6 TB
<input type="radio"/>	15G	FLEX-MGMT-LG R650	2 x Intel Xeon Gold 6326 (16 Cores, 2.9 GHz)	512GB RDIMM	10 x 1.92 TB SAS	19.2 TB
<input type="radio"/>	15G	FLEX-MGMT-SM R650	2 x Intel Xeon Gold 6326 (16 Cores, 2.9 GHz)	512GB RDIMM	5 x 1.92 TB SAS	9.6 TB

- Management switch selection

PROD NETWORK NSX-T MANAGEMENT SWITCH MAPPING CABINETS SOFTWARE

Management Controller Nodes

Selected option: 16G-MGMTSM
Optional

Management Switch

Selected option: Dell S4148T-ON (2x10G)
Optional

Number of Management Switches							
1	<input type="button" value="▼"/>						
Vendor	Model	Connectivity	Speed up	Ports up	Speed down	Ports down	
<input type="radio"/>	Dell	S4148T-ON	1x10G	100G	4xQSFP28	1/10G	48xRJ45
<input checked="" type="radio"/>	Dell	S4148T-ON	2x10G	100G	4xQSFP28	1/10G	48xRJ45
<input type="radio"/>	Dell	S4148T-ON	1x40G	100G	4xQSFP28	1/10G	48xRJ45
<input type="radio"/>	Dell	S4148T-ON	2x40G	100G	4xQSFP28	1/10G	48xRJ45

Step 10: Switch Mapping will be needed if there are nodes in the expansion. The “**Base Build Summary**” page will show all existing cabinets with the available RU. In this build summary, rack 1 has 10 RU, rack 2 has 15 RU. If there are no switches being ordered and there is enough RU space in the existing cabinets, the nodes can be put in existing cabinets. You will need to “**Add Pair**” to represent “**existing**” cabinets and/or “**new**” cabinets. Hit “**Save**”

- In this example, the 4 nodes are being added into “**Existing**” cabinet 2, because there are no new networking switches being added

PROD NETWORK NSX-T MANAGEMENT SWITCH MAPPING CABINETS SOFTWARE

Total # in config Existing Existing Remaining

Leaf pair #1 Leaf pair #2

Max-supported

Node #1 4 0 4 0

Total per pair

ADD PAIR **REMOVE PAIR**

RESET **SAVE**

- In this example, the 4 nodes are being added into “**New**” cabinet, because networking switches are being added to the expansion

OVERVIEW ACCESSORIES EXPORT PROD NETWORK NSX-T MANAGEMENT SWITCH MAPPING CABINETS SOFTWARE

Total # in config Existing Existing New Remaining

Access pair #1 Access pair #2 Access pair #3

Max-supported 24

Node #1 4 0 0 4 0

Total per pair 4

ADD PAIR **REMOVE PAIR**

RESET **SAVE**

Step 11: Choose cabinet type (if needed), hit “**Save**”

PROD NETWORK NSX-T MANAGEMENT SWITCH MAPPING **CABINETS** SOFTWARE

Is it an APEX solution? 

Pairs of side panels count  *

1

Rack Name

Cabinet 42RU Black CRS (1 per cabinet)

Cabinet 42RU White CRS (1 per cabinet)

Cabinet 48RU Black CRS (1 per cabinet)

Cabinet 48RU White CRS (1 per cabinet)

Shipping Cabinet

Cabinet Declined

Advance cooling? Vertical Exhaust Duct/Chimney

RESET **SAVE**




Step 12: Add Software or choose TLA option, hit “Save.”

Note: Beginning May 29, 2025, PowerFlex Rack will be moving to subscription only options for software. Please see 411 – PowerFlex & Cloudlink Subscription Updates

OVERVIEW ACCESSORIES EXPORT

PROD NETWORK NSX-T MANAGEMENT SWITCH MAPPING CABINETS **SOFTWARE**

Software Titles

PowerFlex Software Deselect this option if the customer has an existing Powerflex TLA

License Type *	Duration *	Quantity 
Standard 	12 months 	134 <input type="text"/>

Cloud Link Deselect this option if the customer has an existing Cloud link TLA

Duration *	Quantity 
12 months 	77 <input type="text"/>
12 months	
36 months	
48 months	
60 months	

RESET **SAVE**




Step 13: Review configuration. Before saving complete configuration go to [Neptune \(dell.com\)](#) with your sizer ID to complete elevation. Once elevations are saved in Neptune, return to PowerSizer and “Save”

The screenshot shows the PowerFlex rack system configuration interface. On the left, there's a sidebar with sections like 'Rack Solution' (selected), 'Base Build Summary', 'Node Summary', and 'Prod Network'. The 'Base Build Summary' section contains details such as Build ID: 102047, Build Name: GLOBAL AEROSPACE LOGISTICS LLC, EDGE Ammroc Blue, MAIN, Rack color/RU: Black / 42, Network Topology: Access/Agg, and Leaf/Access Switch Model: S5248F-ON (SXF). It also includes a 'Solution Abstract' button and a table for 'Rack' and 'Switch Pair' configurations. The 'Prod Network' section shows Topology: Access/Agg, Access: 2x S5248F-ON, and Aggregation: 1x S5232F-ON. On the right, the main area has tabs for 'OVERVIEW' (selected), 'ACCESSORIES', and 'EXPORT'. Under 'OVERVIEW', there's a 'Rack Solution' panel with a tree view of 'Base Build Details', 'Prod Network', 'NSX-T', 'Management', and 'Cabinets'. Below it is an 'ADDITIONAL DETAILS' panel with a 'SizerID' field containing 'pflex_60285', which is highlighted with a green box.

The screenshot shows the PowerFlex rack System - Expansion configuration page in PowerSizer. At the top, there are tabs for OVERVIEW, ACCESSORIES, and EXPORT. The OVERVIEW tab is selected. On the left, a sidebar lists categories: Rack Solution (selected), Base Build Details, Node #1, Prod Network, NSX-T, Management, and Cabinets. The main content area is titled 'Rack Solution' and contains the following details:

Description	H/W Generation
PowerFlex rack System - Expansion	16G

Below this, under 'Node #1', are the following specifications:

Protection Domain & Cluster	Total Nodes	Network
1	4	25 Gbps

Under 'Storage' (Node #1), the following data is shown:

Usable Capacity	Raw Capacity	IOPS
26.19 TiB	69.84 TiB	722 K

Under 'CAPACITY & IOPS', the following data is shown:

Storage	Raw Capacity	IOPS
26.19 TiB	69.84 TiB	722 K IOPS

Under 'POWER DETAILS', the following power consumption data is shown:

Plate Power	Max Potential Power
5600 W	3072 W

Under 'ADDITIONAL DETAILS', the SizerID is listed as pflex_4331.

Step 14: Saving PowerSizer configuration. This performs synchronization between PowerSizer and Neptune.

Neptune elevation must be complete before saving PowerSizer configuration.

Step 15: Export your JSON file.

Step 16: Upload JSON file into the appropriate catalog in DSC

Step 17: When the expansion is created in DSC, you will need to “**Initiate Upgrade**”

The screenshot shows the 'Product Configuration' tab selected in the top navigation bar. Below it, there's a search bar and an 'Add Blueprint' button. A yellow warning box contains several bullet points about node installation and configuration. The main product details shown are: LT: 40 days, Imported via Sizer, Configuration Price: \$809,818.31, and a green-bordered 'Initiate Upgrade' button.

- If the PowerFlex rack base build was sold through ACT, you will need to choose the “Opt Out Reason”. Select any reason in the drop down and “Apply”.

Initiate Upgrade

Upgrade Attributes for: [EMC_POWERFLEX_RACK_AMER_VP_1](#)

Please check the Groups Tab to ensure that your solution does not have a mix of different upgrade attributes in any Group.

Select the type of product or service for this upgrade. [i](#)

Serial Number Service Tag Opt Out Reason

Select an Opt Out Reason [▼](#) [Apply](#)

Select an Opt Out Reason
Warehouse Inventory Restock
Retail Bulk Order
Parent system not shipped
Not Purchased as an Upgrade
Priced with Urgency
Security Protocol

- If the PowerFlex rack base build was sold through Common Seller Tools (CST), enter the correct PowerFlex rack serial number and “Apply” **NOTE: PowerFlex rack serial numbers should start with “V71”**

Initiate Upgrade

Upgrade Attributes for: [i](#)

EMC_POWERFLEX_RACK_AMER_VP_1

Please check the Groups Tab to ensure that your solution does not have a mix of different upgrade attributes in any Group.

Select the type of product or service for this upgrade. [i](#)

Serial Number Service Tag Opt Out Reason

V71CK1024002

Apply

Step 18: “Configure Edit” to add support and services to your solution

Add Product **Product Configuration** Power & Cooling Groups Description/History [Reminder: Drive Cross Sell](#)

Search and add product [Add](#) [Add Blueprint](#) [i](#)

[Validate](#)

[Filter Products...](#) [Remove All](#)

1. EMC_POWERFLEX_RACK_AMER_VP_1 [Edit](#) [LT: 40 days](#) [-](#) [1](#) [+](#)

Imported via Sizer [Sizer Details](#)

Configuration Price \$809,818.31

[Initiate Upgrade](#)

Warning

- As part of the base PD/PDP deployment, installation of 4 nodes are covered. For configuration with larger than 4 nodes, PD/PDP Add on is required in 4 node increments. For more information, please refer the ordering guide. [PSB: PFLEX RACK EXP ADDN DEPLOY WARNING - GLOBAL_4050]
- MABD SKU must be included in all node configurations in a PowerFlex rack solution that has more than 25 nodes in total. For more information, please refer the ordering guide. [PSB: PFLEX MABD SKU WARNING - GLOBAL_4564]
- If Site Survey (SS) and Logical Configuration Survey (LCS) are not submitted within 20 business days of order creation then the lead time will be extended. VCE Salesforce is updated by Production TPM teams and should be referred to as the source of truth for projected delivery date. For more information, please refer to the ordering guide. [PSB: PFLEX SURVEY WARNING - GLOBAL_4565]

EMC_POWERFLEX_RACK_AMER_VP_1

[Configure/Edit](#)

[i](#) One or more guided journey steps are incomplete. Complete or re-visit all the steps before proceeding.

[Expand all](#) | [Collapse all](#)

Item	Lead Time	Price
PowerFlex Rack System Base - AMER VP [x1]	23	\$312,056.93
PowerFlex rack R650 - AMER VP [x1]	40	\$183,284.51
Dell Network Switch S5248F - AMER [x2]	3	\$64,267.69
PowerFlex rack Capacity Licensing - AMER VP [x1]	8	\$185,941.49

9 After Point of Sale (APoS).

I. Order APoS Components

PowerFlex rack allows APoS (After Point of Sale) enhancement for the following components:

- Memory
 - RDIMM/LRDIMM/NVDIMM
- Drives
 - SSDs/SEDs/NVMe

APoS orders are processed and fulfilled via DSA/Gii, but no compensation will be tied to those orders. Presales solution support team can create solution ids that can be used to create quotes in DSA/Gii. APoS kits are shipped directly to the customer site. APoS components are installed and configured by Dell EMC professional services team.

Please see PSS customer kit selector link below for memory and drive options.

Link for PSS Selector: https://product-selectors.dell.com/Cust_Kit_Selector/main.aspx

II. APoS Service Ordering:

To open a Custom Service Engagement request, the Account Team will use the process as described in the Custom Solutions Engagement page (<https://inside.dell.com/groups/custom-solutions-engagement-tool>). This will develop a Custom Statement of Work (CSoW) and quote, and this process is streamlined using an available template for the VxFlex node update services. Once the customer agrees (issues their PO), order hardware and software.

III. Service Dispatching:

Once the customer receives the CusKit hardware at the final installation site, to arrange the dispatch of installation services corresponding to the CSoW, **the Account Team must open a Service Request in SFDC to schedule the installation.**

- Note that a Custom Service Engagement must be requested to quote and order the installation service, prior to looking to dispatch the installation service.

10 Addendum

10.1 Subscription License Steps (PowerFlex 4.x Only)

New orders will be required to use subscription licenses.

The new PowerFlex licensing model allows for multiple consumption methods designed to appeal to customers more broadly:

1. **Standard subscription** (most common) licensing for use on PowerFlex hardware (rack, appliance, custom node) only - activated against the cluster Installation ID
2. **Flexible subscription** licensing for use on PowerFlex hardware and/or industry standard servers (PowerEdge, ProLiant, etc) - activated against the cluster Installation ID
3. **TLA term** licensing version of the Standard and Flexible subscriptions – activated against the Installation ID
4. **Standard node** licensing included with PowerFlex hardware – ordered with the node itself and activated against the node service tag
5. **TLA node** licensing included on PowerFlex hardware for customers with transformational license agreements – ordered with the node itself and activated against the node service tag

Subscription licensing, like the legacy licensing model, allows licensing from multiple entitlements in single clusters, as well as splitting single entitlements across multiple clusters

Node licensing is not transferable outside the node

10.2 Tech Integration Information

10.2.1 Data Protection Information:

Dell Technologies Data Protection with PowerFlex

Dell Technologies offers multiple data protection products, which can complement PowerFlex solution. Data Protection portfolio consist of software as well as appliances.

Customer can use them to protect and recover PowerFlex hosted assets, but also assets hosted outside of PowerFlex.

PowerFlex can be also used as an infrastructure target for data protection software components.

Dell Data Protection Sales and Presales team can help with configuration, sizing, quoting. See [DP PowerFlex.pptx](#)

10.2.2 Isilon/PowerScale Information:

Please contact [PowerScale](#) solutions team directly for more information.

10.3 Nutanix Ordering Information

Nutanix AHV is now a supported Hypervisor for Nutanix Compute nodes.

Dell PowerFlex with Nutanix Cloud Platform—the first external storage solution officially supported and integrated with Nutanix Cloud Platform- now available for both PowerFlex rack and appliance.

- Must be deployed as disaggregated compute and storage (2-layer).
- Can be applied to Brownfield PowerFlex nodes (for customers with existing HW) or Greenfield (customers who wish to purchase new nodes for this solution).
- Non-PowerFlex nodes are not supported for this solution (and conversion services are not available).
- All PowerFlex 15G and 16G appliance and rack nodes are applicable. PowerFlex 14G nodes require an RPQ to be considered for this solution.

PowerFlex Manager handles lifecycle management of PowerFlex storage and all hardware components of compute nodes, including BIOS, firmware, and drivers. Nutanix manages lifecycle aspects for AHV, AOS, and PowerFlex SDC, which is integrated into the Nutanix cluster via Nutanix Prism.

PowerFlex capacity licensing is still required and will continue to be made available through Dell sales tools. Nutanix has created special licensing for this solution: NCI-C (Nutanix Cloud Infrastructure Compute). NCI-C licensing must be procured from Nutanix. For any questions regarding licensing quotes, please contact: Mark Scibilia (Mark.Scibilia@dell.com)

Deal registration is currently available on Dell and is strongly encouraged. When creating your opportunities: Greenfield: select “Nutanix Compute License” for the SW along with PowerFlex.

Brownfield, when only purchasing Nutanix SW to apply on PowerFlex HW, you only need to register “Nutanix Compute License”.

In the future, Dell will launch SKUs for NCI-C licensing in common sales tools (DSC/DSA).

It is important to note that customers with active support entitlement using this solution will continue to receive support from Dell Technologies for all PowerFlex related issues, including HW and SW. All Nutanix issues (with the Hypervisor) must be resolved directly with Nutanix. Dell will assist in initial triage but will require customers to contact Nutanix if they identify the issue being Nutanix related.

Sizing is available for PowerFlex (storage) and Nutanix (compute):

PowerFlex storage sizing is available through normal sizing tools:

- [PowerFlex Sizer](#)

Nutanix sizing is available via Nutanix Sizer:

- [Nutanix Sizer](#)

Dell Internal Enablement Assets

1. **Customer Deck:** <https://www.delltechnologies.com/asset/en-us/products/storage/selling-competitive/powerflex-with-nutanix-cloud-platform-customer-deck.pptx>
2. **101 Deck:** <https://www.delltechnologies.com/asset/en-us/products/storage/selling-competitive/powerflex-nutanix-cloud-platform-first-call-101.pptx>
3. **201 Deck:** <https://www.delltechnologies.com/asset/en-us/products/storage/selling-competitive/powerflex-nutanix-cloud-platform-technical-201.pptx>
4. **Training Modules:**
 - <https://salesu.edcast.com/insights/ECL-6cc88bfd-b118-44f0-91bc-b4418166adef>
 - [https://edutube.dell.com/html5/playlistmain.htm?pno=hA6G1QISgimG3l8esPH|@\\$@|Kw==](https://edutube.dell.com/html5/playlistmain.htm?pno=hA6G1QISgimG3l8esPH|@$@|Kw==)

External Customer-Facing Assets

1. **Announcement Blog:** <https://www.dell.com/en-us/blog/unleash-scalability-and-performance-with-dell-powerflex-and-nutanix/>
2. **PowerFlex Webpage Inclusion:** [Dell.com/Nutanix](https://www.dell.com/Nutanix)
3. **PowerFlex with NCP Solution Brief:** <https://www.delltechnologies.com/asset/en-us/products/storage/briefs-summaries/dell-powerflex-with-nutanix-cloud-platform-solution-brief.pdf>
4. **Spec Sheet:** <https://www.dellemc.com/resources/en-us/asset/briefs-handouts/products/storage/powerflex-specification-sheet.pdf>
5. **Technical Overview White Paper:** [Dell PowerFlex with Nutanix Cloud Platform Technical Overview | Dell Technologies Info Hub](https://www.delltechnologies.com/asset/en-us/white-papers/white-papers/dell-powerflex-with-nutanix-cloud-platform-technical-overview-dell-technologies-info-hub)
6. **ESG Technical Review:** <https://www.delltechnologies.com/asset/en-us/products/storage/industry-market/esg-dell-powerflex-with-nutanix-cloud-platform-analyst-report.pdf>
7. **Reference Architecture - Microsoft SQL Server on PowerFlex with Nutanix Cloud Platform:** <https://infohub.delltechnologies.com/en-us/t/using-dell-powerflex-with-nutanix/>
8. **HOL Lab -** <https://democenter.dell.com/interactive/ITD-0571> (**Need to Register for access**)

9. **Deploying PFMP on AHV:** [Deploying Dell PowerFlex Manager on Nutanix Acropolis Hypervisor | Dell Technologies Info Hub](#)

10.3 Country Ship to List (CSTL)

Rack CSTL				Embargoed Countries
Dell EMC Field Service Supported Countries				
				No Support
	Americas	EMEA	APJ	RESTRICTED
	Canada	Algeria*	Afghanistan	Cuba
	United States	Austria	Australia	Iran
		Bahrain	Bangladesh*	North Korea
		Belgium	Brunei*	Crimean (Ukraine)
		Czech Republic	Cambodia*	Donetsk (Ukraine)
		Denmark	China	Luhansk (Ukraine)
		Egypt	Hong Kong	Sudan
		Estonia		Syria
		Finland	Indonesia	Russia
		France	Japan	Belarus
		Germany	Macau	
		Greece	Malaysia	
		Hungary	Myanmar*	
		Iceland	New Zealand	
		Ireland	Pakistan*	
		Israel	Philippines	
		Italy	Singapore	
		Kazakhstan	South Korea	
		Kenya	Sri Lanka*	
		Kuwait	Taiwan	
		Latvia	Thailand	
		Lithuania	Vietnam	
		Luxembourg		
		Morocco		
		Netherlands		
		Nigeria		
		Norway		
		Oman		
		Poland		
		Portugal		
		Qatar		
		Saudi Arabia		
		South Africa		
		Spain		
		Sweden		
		Switzerland		
		Turkey		
		Ukraine (Non-sanctioned areas)		
		United Arab Emirates		
		United Kingdom		
		Uzbekistan		
Total : 75	2	41	22	10

* No ProDeploy Enterprise Suite available; channel partner with Deployment Competency is required

[Information on Ukraine; Guidance on Russia Sanctions \(sharepoint.com\)](https://sharepoint.com)