



Partner Sales Academy

Simple.Predictable.Profitable.™



Windows Server 2016: Power your business.



Windows Hello: you are the password.

Przełącznik to nie sieć, czyli opowieść o dużych marżach na Dell EMC Networking

Jarosław Dankowski

Dell EMC Networking Poland & Czech Republic Sales Executive



Dell EMC Open Networking innovation timeline

● **Jan** – announced Open Networking initiative with S4810-ON 10GbE switch and Cumulus Networks

● **Apr** – announced S6000-ON 40GbE switch

● **Apr** – partnership with Big Switch Networks

● **Aug** – partnership with VMware

● **Dec** – partnership with Midokura

● **Jan** – announced OS10

● **Mar** – announced OS10 Open Edition integration into OCP SONiC

● **Apr** – announced S4048T-ON 10GbBaseT switch and S6010-ON 10/40GbE switch

● **Oct** – announced OS10 Open Edition integration into Linux foundation OpenSwitch project

● **Dec** – OS10 Enterprise Edition into Beta

● **Mar** – announced new Virtual Edge Platform (VEP) family for next-gen access/SD-WAN

● **Apr** – announced S4112-ON micro top-of-rack switch

● **Aug** – announced Z9264F-ON 64 x 100GbE switch

● **Aug** – announced MX Fabric ONIE-enabled switching modules

● **Nov** – announced S5248F-ON, S5296F-ON and S5232F-ON switches

2014

2015

2016

2017

2018

● **Mar** – announced joint submission with Microsoft of Switch Abstraction Interface (SAI) to Open Compute Project (OCP)

● **Apr** – announced S3048-ON 1GbE switch, S4048-ON 10GbE switch and Z9100-ON 100GbE switch

● **Apr** – partnership with IP Infusion

● **Jun** – partnership with Pluribus Networks

● **Sep** – announced S6100-ON 40/100GbE switch

● **Jan** – announced campus switches N3132PX-ON and N2128PX-ON 2.5/5GbE POE+ switches

● **May** – announced S5100 25/100GbE & S4100 10/100GbE top-of-rack switches

● **May** – announced N1100 1/10GbE access switch

● **Sep** – announced S4200 deep-buffer/deep-table 10/100GbE switch

● **Sep** – SD-WAN Ready Nodes

MORE TO COME

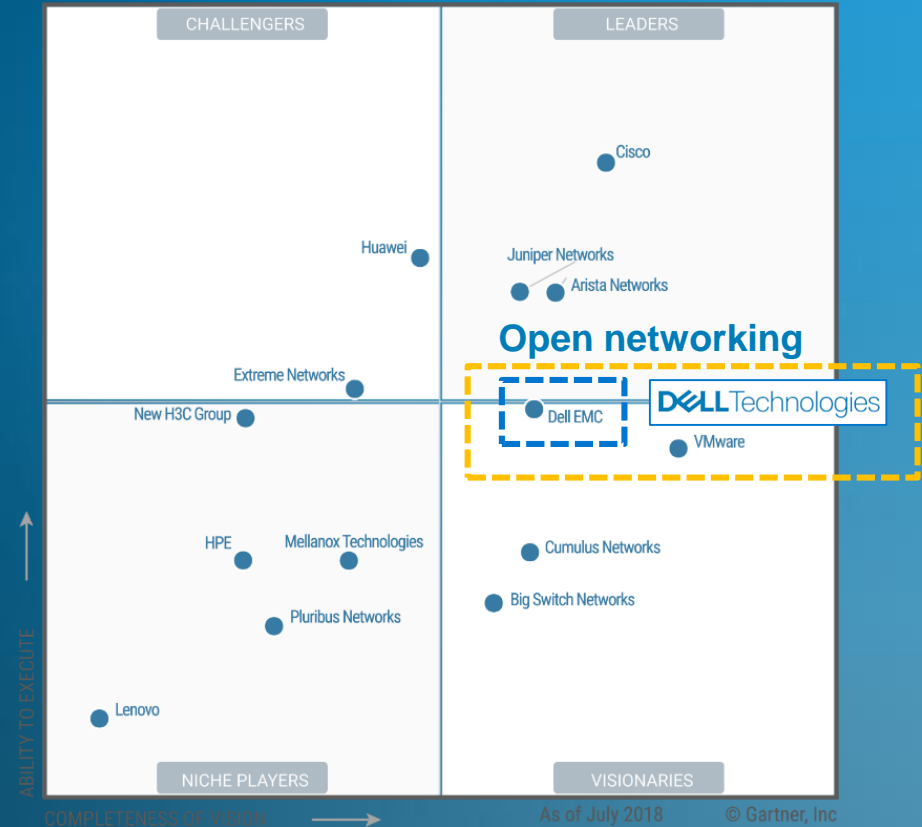
Recognized for our execution and vision

Gartner

Magic Quadrant for Data Center Networking

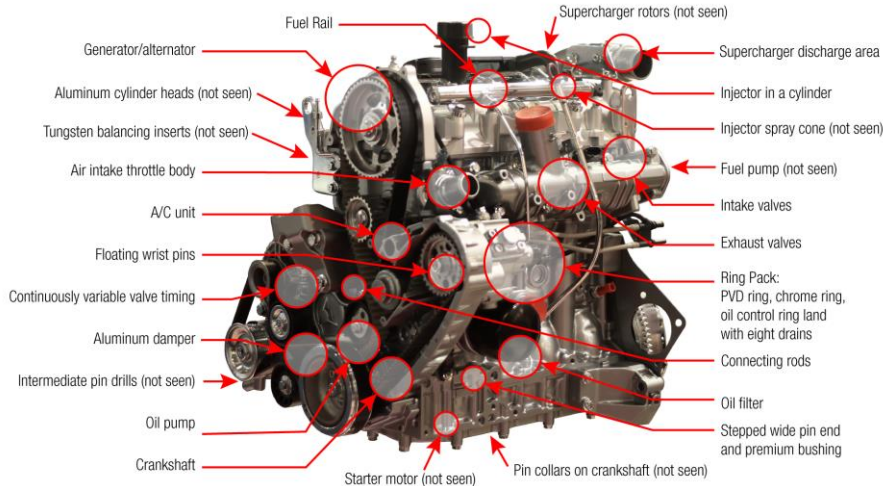
Dell EMC was an early proponent of, and remains committed to, Open Networking, which has driven and altered the market, and transformed the way many customers (and competitors) think about data center networking.

All organizations should shortlist Dell EMC, particularly those interested in Open Networking.



OPERATING AN AUTOMOBILE – AN ANALOGY

Automobile Engine - Features



- Many components
- Many nerd knobs
- Many moving parts

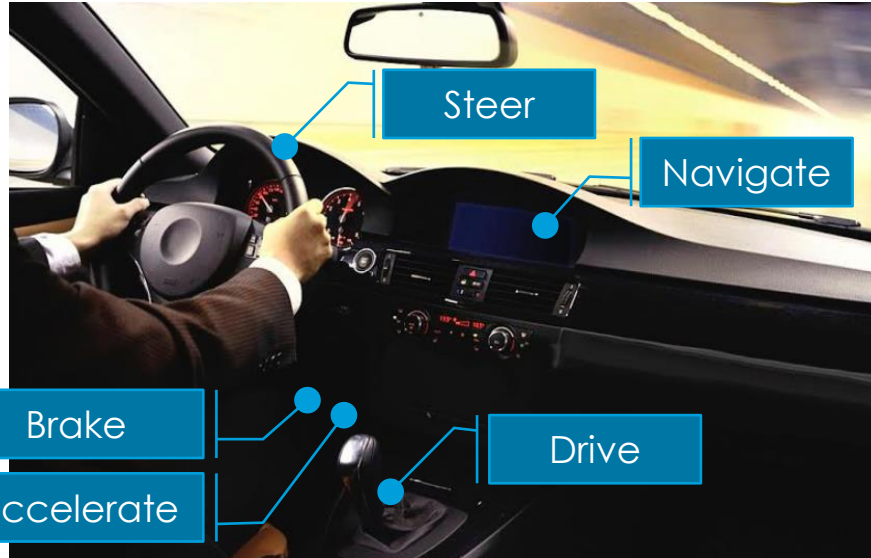
Is the engine exposed to the driver?



Industry kept complexity “under the hood”

OPERATING AN AUTOMOBILE – AN ANALOGY

Automobile Operation



Self-driving Automobile



- **Intent-based** (Drive, Steer, Brake, Accelerate)
- **Granular Telemetry** (Dashboard w/ Alerts)
- **Simple to operate** (Most adults can drive)

NETWORKING TRANSFORMATION HAS BEGUN

NET frame



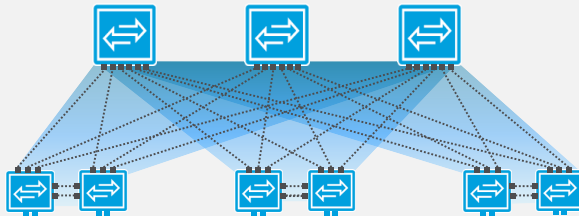
Proprietary Stack
(ASIC, HW, SW)

Challenges:

- Complex/Slow
- Expensive
- Scale-up
- Vendor lock-in



Clos Fabric



Commodity
Components

Benefits:

- Simple/Fast
- Economical
- Scale-out
- Vendor choice



Disaggregated Stack

Software



Hardware

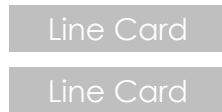
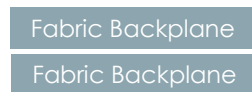
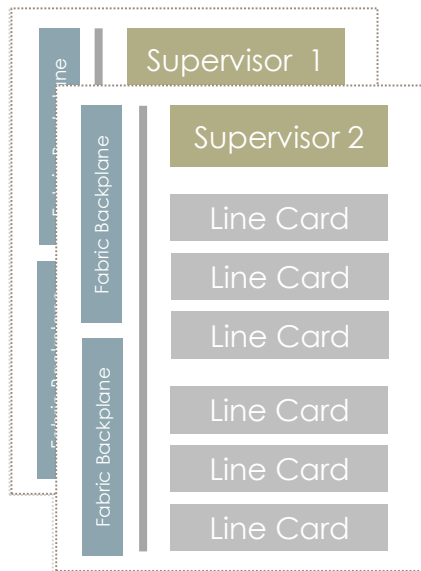


ASIC

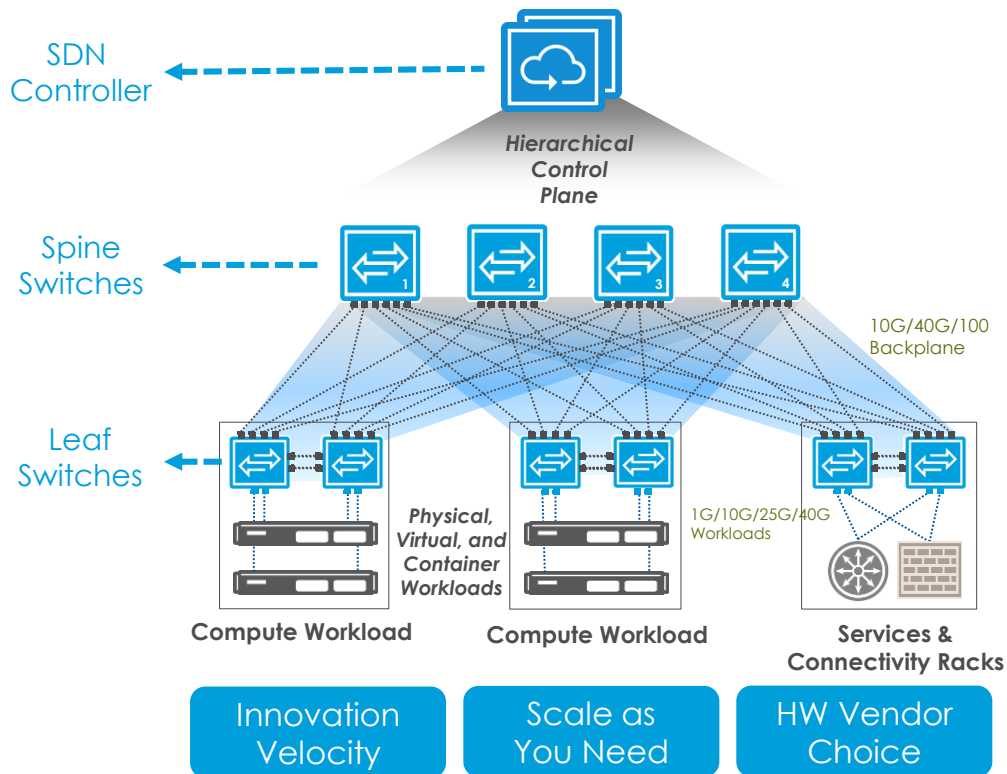


LOGICAL CHASSIS ARCHITECTURE — “ONE BIG SWITCH”

Traditional Chassis Pair

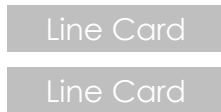
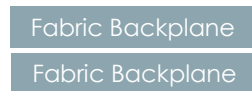
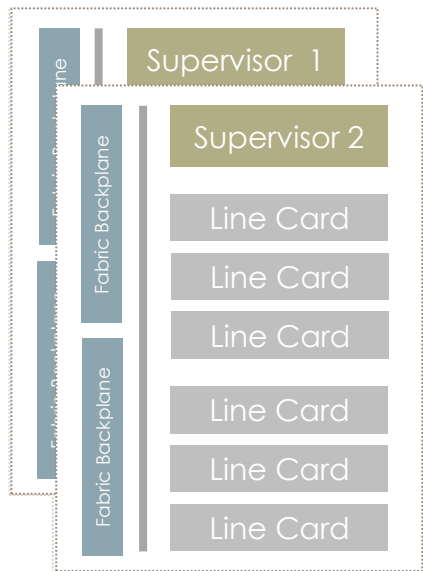


Logical Chassis Pair

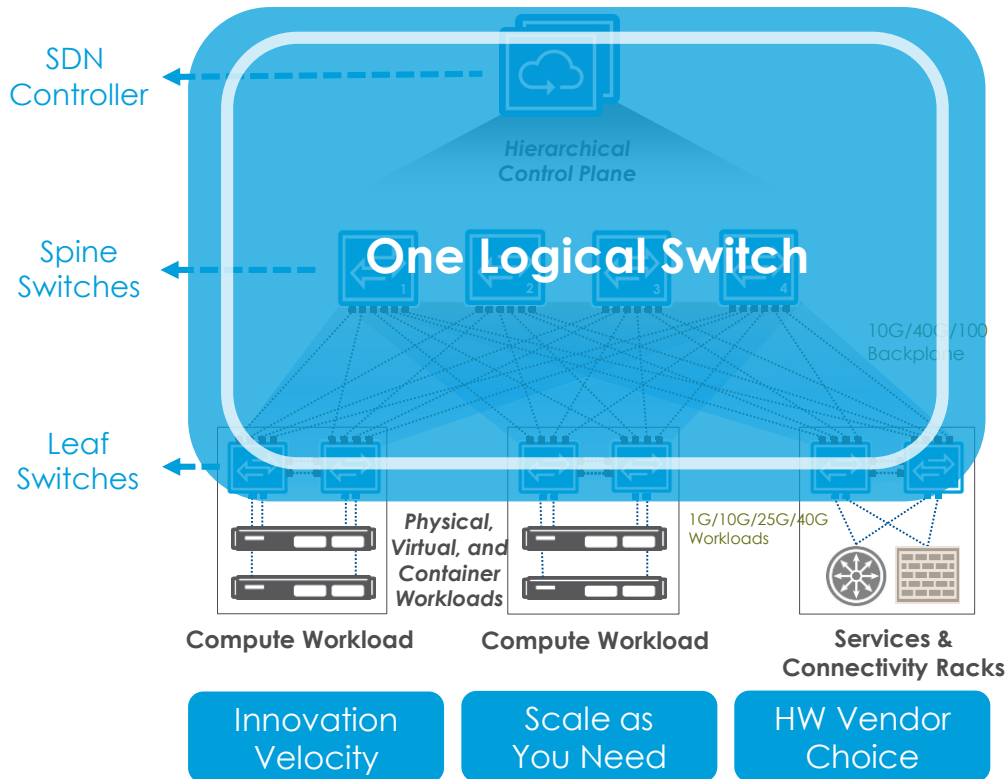


LOGICAL CHASSIS ARCHITECTURE — “ONE BIG SWITCH”

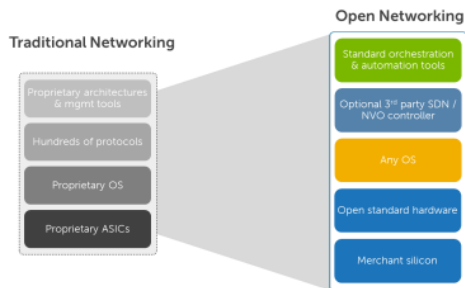
Traditional Chassis Pair



Logical Chassis Pair



Open Networking—Ecosystem and use-cases



Cumulus Linux

Linux-based operating system preferred by customers looking to converge knowledge sets and automation tools



Big Cloud Fabric Big Tap Big Tap Inline

Controller-based fully auto-provisioned fabrics with common integration points for VMware vSphere and OpenStack



OcNOS

Commoditized MPLS for enterprise and university customers seeking economical good-enough MPLS solutions



NetVisor

Controller-less peer-to-peer small scale fabric solution designed for simple manageability and visibility plus resiliency



Dell Networking Operating System

Customer-proven feature-rich L2/L3 operating system designed for data center and campus deployments at any scale

Internal Use - Confidential



Dell EMC Networking portfolio

Fabric/Spine switches



Z-series

Top-of-rack/Leaf switches



S-series

Module I/O



FN-IOM for FX2

MX modules for MX7000

MXL/IOA for M1000e

Next-generation access



Virtual Edge Platform

Campus/Branch switching



N-series

Wireless networking



Aerohive and Ruckus

Networking software



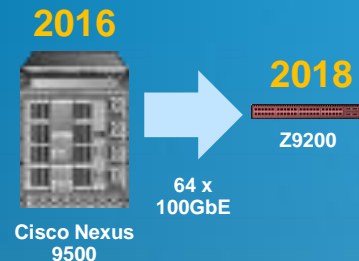
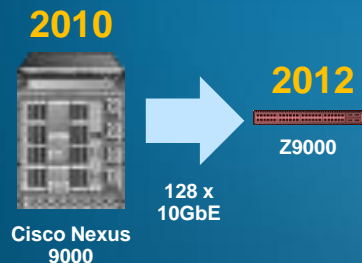
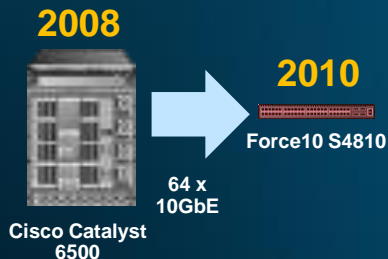
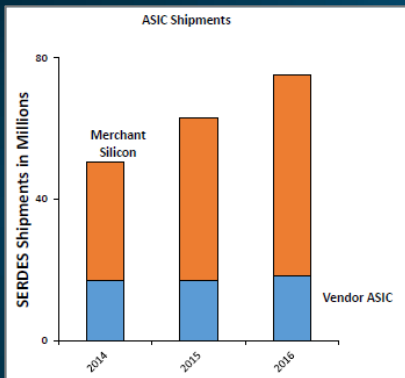
Ecosystem partners



Right-sizing the modular switching market with merchant silicon

Use Case 1 | Data center networking

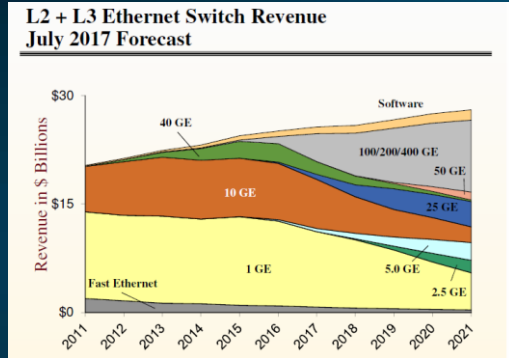
Port density



Network scale

Complete top-of-rack connectivity

Port density



S3000

1GbE



S4100/S4200

10GbE



S5000/S5100/S5200

25GbE



S6100

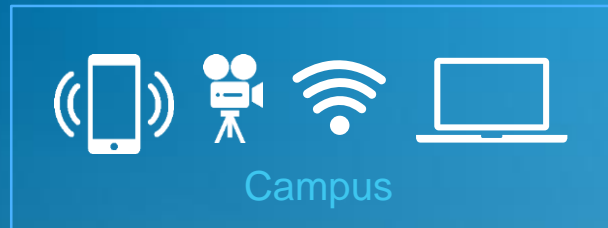
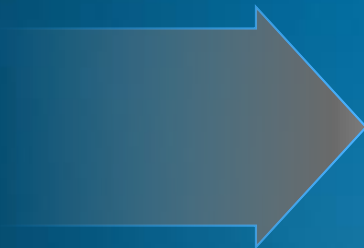
Multi-rate
10/25/40/50/100GbE

ONIE

Network scale

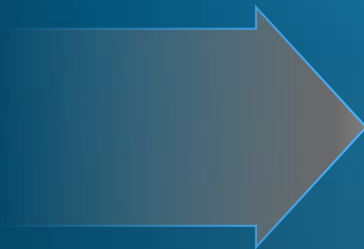
Cost-effective switching

N-series



X-series

Channel only



Cloud-based management

Hardware

Dell EMC N-series
switches



Aerohive
NETWORKS

Access points

Software

Two management options:



Cloud



On-
premise

Services



Consulting
and surveys



ProDeploy



ProSupport

Simplified 'manage from anywhere' solutions for wired and wireless infrastructure

DELL EMC

PARTNER PROGRAM

PROGRAM TRACKS		Solution Provider	OEM	SI (Alliances)	MSP/CSP	RSA
PROGRAM TIERS	TITANIUM					
	PLATINUM					
	GOLD					
		DISTRIBUTION				

Tier Resource Requirements – EMEA Zone 2

	Gold				Platinum				Titanium			
	S	T	TA	M	S	T	TA	M	S	T	TA	M
Server	1	1	-	1	1	1	-	1	3	3	-	1
Networking		1	-			1	-			3	-	
Data Protection		1				1				3		
Storage		1	-			1	1			3	2	
Converged Infrastructure	1	1			1	1			3	3		
Core Client Solutions	1	1	-		1	1	-		3	3	-	
Workstations	1	1	-		1	1	-		3	3	-	
Cloud Client Computing	1	1	-		1	1	-		3	3	-	
Client Data Security	1	1	-		1	1	-		3	3	-	
IT Transformation					1	1	1		3	3	1	
Digital Transformation					1	1			3	3		

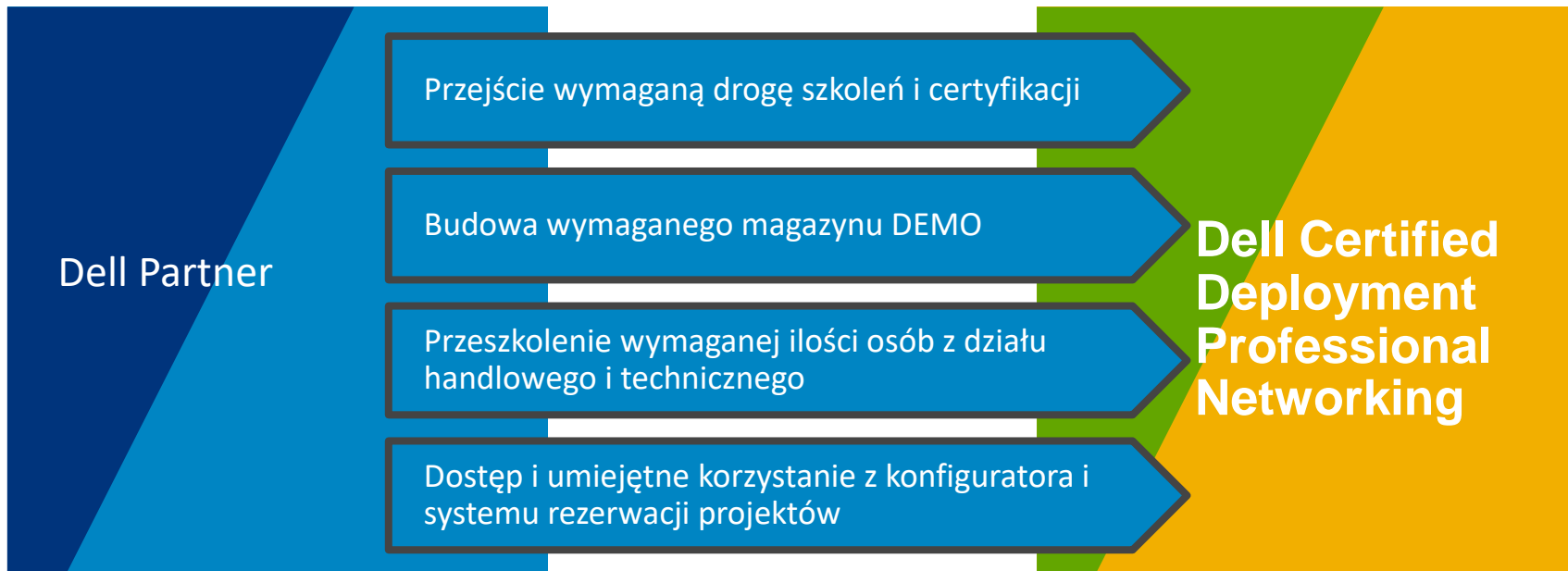
TITANIUM			EMEA Rebate					
PRODUCT CATEGORIES			Base	Growth		Services		NBI
				>100%	>120%	Gate 1	Gate 2	
CSG	A		3.00%	0.50%	1.00%	0.50%	1.00%	4.00%
	B		1.25%	0.50%	1.00%			
	C		0.50%	0.50%	1.00%			
	CP&D		2.00%	0.50%	1.00%	-	-	-
ISG	Server	A	4.00%	1.00%	2.00%	0.50%	1.00%	6.00%
		B	2.50%					
	Storage	A	4.00%	6.00%		0.50%	1.00%	8.00%
		B	0.30%	6.00%				8.00%
	NW		5.00%	1.50%	2.50%	0.50%	1.00%	15.00%
	EI		1.50%	1.00%	2.00%	-	-	-



DELL EMC NETWORKING Partner program



Jak zostać Dell Networking Certified Partner



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