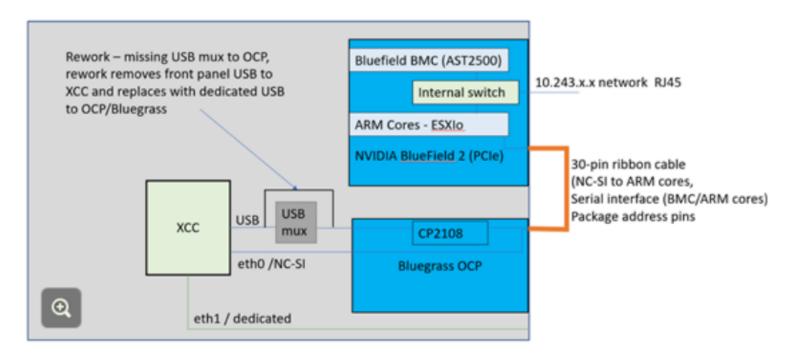
Product overview

VMware vSphere Distributed Services Engine on ThinkAgile VX

vSphere Distributed Services Engine on ThinkAgile VX overview

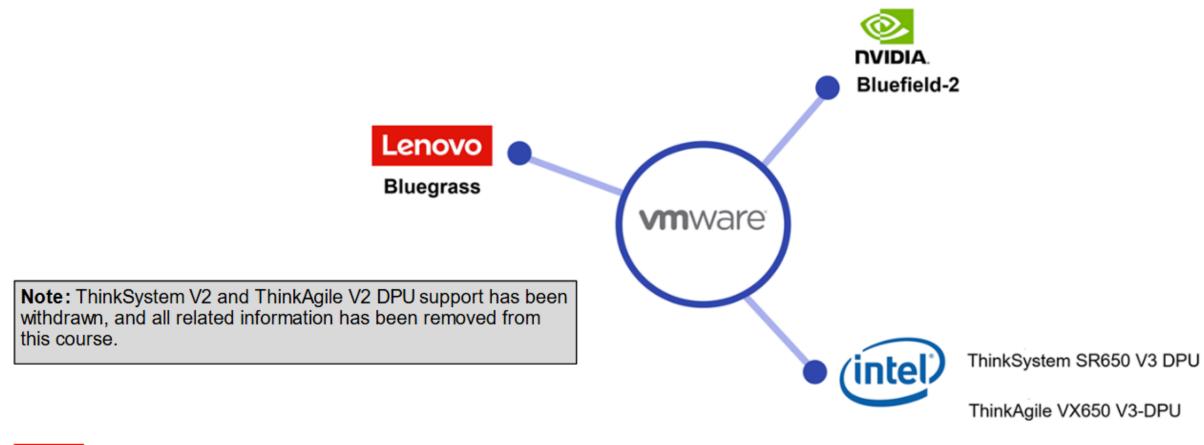
The VMware vSphere Distributed Services Engine (DSE) is a three-way project (project name: Monterey) involving Lenovo, VMware, and NVIDIA. The NVIDIA BlueField-2 SmartNIC or DPU (data processing unit) is a type of networking card that offloads tasks from server CPUs to make data center applications more efficient. The ThinkSystem OCP Enablement Kit for Distributed Services Engine (code name: Bluegrass) OCP card was developed by Lenovo, and the solution has cables to connect the components. This project aims to improve the performance, manageability, and security of enterprise data centers through the latest networking technologies.





Phase one launch support platform

In the phase one launch, Lenovo provides Intel-based ThinkSystem V3 and ThinkAgile V3 servers equipped with the ThinkSystem OCP Enablement Kit for Distributed Services Engine:





Supported ThinkSystem and ThinkAgile models

This table shows the Lenovo models supported in phase one – note that they are all Customer to Order (CTO) models.

Due to restrictions made by VMware, field upgrades are not supported.

МТ	сто	Marketing Name	
7D6W	7D6WCTO4WW	ThinkAgile VX650 V3-DPU Integrated System	
7D6W	7D6WCTO5WW	ThinkAgile VX650 V3-DPU Certified Node	
7D6W	7D6WCTO6WW	ThinkAgile VX650 V3-DPU SAP HANA Certified Node	
7D75	7D75CTO4WW	ThinkSystem SR650 V3 DPU – one-year warranty	
7D76	7D76CTO4WW	ThinkSystem SR650 V3 DPU – three-year warranty	



Component part numbers and marketing names

	Supplier	Feature code	FRU P/N	L1 P/N	Marketing name
BlueField-2	NVIDIA	BRPK	03GX901	SBB7A52992	Long name: ThinkSystem NVIDIA BlueField-2 25 GbE SFP56 2-Port PCle Ethernet DPU w/BMC & Crypto
Bluegrass	Lenovo	BSH7	03GX844	SBB7A52873	Long name: ThinkSystem OCP Enablement Kit for Distributed Services Engine Short FRU name: OCP Enablement Kit for vSphere DSE
NC-SI cable	Amphenol	BSLP	03LD179	SBB7A71467	Long name: ThinkSystem Adapter NC-SI cable – 270 mm Short FRU name: Cable BG FPGA 20 - BF2 20
Serial Cable	Amphenol	BSLQ	03KM313	SBB7A71468	Long name: ThinkSystem Motherboard serial cable – 400 mm Short FRU name: Cable BG FPGA 12 - Anarky BMC



Reference resources

Refer to the following VMware and NVIDIA links for reference information:

- Project Monterey eBook
- Introducing VMware vSphere Distributed Services Engine and Networking Acceleration by Using DPUs
- NVIDIA BlueField-2 DPU User Guide
- Using vSphere Lifecycle Manager with VMware vSphere Distributed Services Engine → New
- Evolve your Data Center with VMware vSphere Distributed Services Engine on Lenovo → New

