

Smarter technology for all

Servicing the GeoComputing OEM ON DEMAND products

Lenovo

ES42314

March 2024

Prerequisites

- [ES51757B Introducing ThinkSystem tools](#)
- [ES71744 Servicing ThinkSystem SR630](#)
- [ES71743C Servicing ThinkSystem SR650 Server](#)
- [ES42086B Servicing Mellanox managed switches with Cumulus OS](#)
- [ES72038 Servicing ThinkSystem SR630 V2](#)
- [ES72039 Servicing ThinkSystem SR650 V2](#)
- [ES71931G Servicing ThinkSystem DE Series storage arrays](#)

Objectives

After completing the course, you will be able to:

- Provide an overview of the GeoComputing OEM ON DEMAND products
- Describe the GeoComputing OEM ON DEMAND support flow
- Describe the service expectations and support resources for the GeoComputing OEM ON DEMAND products

Product overview

The RiVA platform

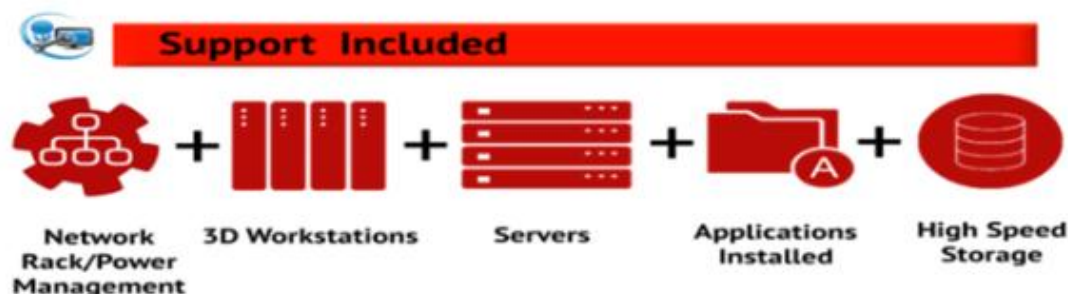
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RiVA platform overview

RiVA is a prefabricated, high-performance, geotechnical computing platform that has embedded storage with a shared parallel filesystem.

The solution includes:

- Hardware, including physical integration
- IP and labor for logical provisioning
- Performance tuning and benchmarks
- Installation and three years of maintenance (HW and SW)
- End user application support



RiVA platform hardware overview

Category	Provider	Product Description
Racks	Lenovo	Compute Rack type-1
	Lenovo	Compute Rack type-2
	Lenovo	Compute Rack type-3
	Lenovo	Storage Rack type-1
	Lenovo	Storage Rack type-2
Servers	Lenovo	RiVA Management Server- SR630/7X02
	Lenovo	Redundant NAS Gateway- SR630/7X02
	Lenovo	Virtual Servers Host type- SR650
	Lenovo	Virtual Servers Host type-2- SR650
	Lenovo	X-Series Remote Visualization System- SR650/7X06
	Lenovo	H-Series Remote Visualization System- SR650/7X06
Storage	Lenovo	DSS-G241, 800GB SSDs, 6TB HDDs, Spectrum Scale Data Management Edition
Switches	Mellanox	SB7800 36-port EDR managed switch, P2C airflow, dual PSU
	Arista	7010T 48-port GbE managed switch, rear-to-front airflow
	Arista	7050CX3 32-port 100GbE managed switch
PDU	APC	Rack PDU 2G, Metered, ZeroU, 17.2kW, 208V, (30) C13
	APC	Rack PDU 2G, Switched, ZeroU, 17.2kW, 208V, (42) C13, (6)C19
	APC	Temperature Sensor
DAC	Arista	100GBASE-CR4 QSFP to QSFP Twinax Copper Cable 0.5 meter
	Mellanox	40Gb/s to 10Gb/s QSFP to SFP+ Ethernet Cable Adapter
Hub	Digi	AnywhereUSB 24 Plus Remote USB 3.1 Hub
	StarTech	16-Port USB-to-Serial Adapter Hub
AOCs (cables)	Arista	100GbE QSFP AOC, 3 meters
	Arista	100GbE QSFP AOC, 5 meters
	Arista	100GbE QSFP AOC, 7 meters
	Mellanox	Infiniband EDR QSFP28 AOC, 3 meters
	Mellanox	Infiniband EDR QSFP28 AOC, 5 meters
	Mellanox	Infiniband EDR QSFP28 AOC, 7 meters
	Mellanox	Infiniband EDR QSFP28 AOC, 10 meters

RiVA platform software overview

Category	Provider	Product Description
Server Software	Cobbler	Linux provisioning server
	Apache	Web services
	CentOS	Opensource RHEL
	VMware	vSphere 7 Standard for 1 processor, 3 years support
	VMware	vSAN 7 Standard for 1 processor, 3 years support
	Microsoft	Windows Server 2019 Standard Edition, 3 years support
	Red Hat	Enterprise Linux Server, Standard 3 years support
	ManageEngine	Patch Manager Plus Enterprise Edition for Server, 3 years subscription
Workstation Software	Microsoft	Windows 10 Pro 64-bit license
	Microsoft	Windows Enterprise UPGRADE, 3 year Software Assurance
	Red Hat	Enterprise Linux Workstation, Standard 3 years
	ManageEngine	Patch Manager Plus Enterprise Edition for Desktop, 3 years subscription
	Nvidia	GRID Bundle Quadro vDWS Perpetual License Plus 3yr SUMS, 1CCU
	Mechdyne	TGX perpetual license
	HPE	ZCentral Remote Boost
	Teradici	Cloud Access Plus
	Leostream	Connection broker client
	Ivanti	User Workspace Manager



Rack layout – continued

