

# ArcGIS Pro Virtualization Dell Appliance

## *For US Customers Only*

The ArcGIS Pro Virtualization Dell Appliance is designed, tested, and optimized to successfully virtualize ArcGIS Pro (ArcGIS Desktop). This includes providing the capability to deliver rich graphical experience when using ArcGIS Pro or ArcMap with 2D and 3D data. You can be confident because the ArcGIS Pro Virtualization Dell Appliance has been configured for you to simplify the delivery and deployment of ArcGIS Desktop, including ArcGIS Pro, in a virtualized environment. The appliance addresses the ArcGIS Pro requirement for shareable Graphics Processing Units (GPU). This appliance, a collaborative effort between Esri/Dell/NVIDIA/VMWare, represents the most cost effective and quickest path to virtualizing ArcGIS Pro.



### ArcGIS Pro

Esri's 64-bit desktop GIS product is ArcGIS Pro. Technologically ahead of everything else on the market, ArcGIS Pro provides professional 2D and 3D mapping in an intuitive user interface. You can think of ArcGIS Pro as a big step forward—one that advances visualization, analytics, image processing, data management, and integration.

### ArcGIS Pro Virtualization Dell Appliance Benefits

**Easy adoption:** Eliminates much of the complexity and need for in-house expertise traditionally required by many virtualization solutions, so a staff with limited experience or time can deploy a virtual environment.

**Shared Graphics Processing Unit (GPU):** The shareable GPUs used in this server are the NVIDIA Tesla GPU accelerator cards which enable graphics rich applications such as ArcGIS Pro to be used in a virtualized environment. The NVIDIA Tesla GPU accelerator technology allows for VMs to be configured with the GPU capability needed by the end user. With the vGPU technology, ArcGIS Pro can be used to its fullest potential. Esri's internal testing has shown three T4s can support 25 ArcGIS Pro VMs. Keep in mind the number of ArcGIS Pro VMs that can be supported on this type of virtualization server can fluctuate. For very demanding 3D workloads it may be a little less. For less demanding 2D workloads the server could probably support more.

**Tested:** The appliance has been thoroughly tested by the Esri Performance Engineering team using the ArcGIS Pro Performance Test Suite, as well as hands on testing in the Esri Development Holistic Lab.

## ArcGIS Pro Virtualization Dell Appliance Specifications

### Dell EMC PowerEdge R740 Rack Server

- Two (2) Twenty Core Intel<sup>®</sup> Xeon<sup>®</sup> Gold 6248 2.5 GHz Processors, 27.5MB Cache
- Three (3) NVIDIA Tesla T4 Graphics Cards with 16GB of memory
- 256 GB RAM (8 x 32 GB RDIMMs)
- Six (6) x 800GB Solid State 12Gbps SAS Hard Drives with RAID 10
- PERC H740P RAID Controller, 8GB NV Cache
- DVD+/-RW SATA Internal Drive
- Two (2) Broadcom 57416 Dual Port 10GbE BASE-T and One (1) 5720 Dual Port 1GbE BASE-T Network Cards
- iDRAC9 Enterprise
- Dual 1600W Hot-plug, Redundant Power Supplies
- Three-Year Four-Hour On-Site Response, 24 Hours a Day, Seven Days a Week after Remote Diagnosis

*If variations to this configuration are desired, please contact [EsriHWRequest@esri.com](mailto:EsriHWRequest@esri.com) to see if modifications are available.*

### NVIDIA GRID Virtual Workstation Software

Also required as part of the ArcGIS Pro Virtualization Dell Appliance is NVIDIA GRID Virtual Workstation Software. The NVIDIA GRID<sup>®</sup> software provides the technology for the virtualization tier to deliver accelerated virtual desktops and applications from the data center to any user, anywhere. This software is priced separately from the appliance to accommodate the number of **Concurrent Users** to support a customer's actual environment. The **License Type** of the software is an **Annual Subscription**: A software license that is active for 1 year and includes a support, upgrade and maintenance program during the subscription.

The following items are **not** included with the appliance but are necessary for the appliance to function:

- **ArcGIS Desktop (with ArcGIS Pro) Licenses** - This appliance is tailored for users that want to use ArcGIS Pro in a virtualized environment and it is assumed that most users will already have the ArcGIS Desktop (with ArcGIS Pro) software necessary. However, customers that need to purchase new (or add) ArcGIS Desktop licenses to be used with the ArcGIS Pro Virtualization Dell Appliance, please contact your Esri Account Manager or [EsriHWRequest@esri.com](mailto:EsriHWRequest@esri.com) for pricing.
- **Virtualization software** - Most customers interested in the ArcGIS Pro Virtualization Dell Appliance **will already have** invested in their own virtualization environment. Current supported virtualization environments for ArcGIS Pro include:
  - VMWare ESXI and Horizon View
  - VMWare ESXi and Citrix XenDesktop
  - Citrix XenServer and XenDesktop
- **Windows Desktop** - A supported Windows Desktop Operating System install (.iso) used for the operating system on the virtual machines.

## Pricing

Item #	Description	Price
148633	ArcGIS Pro Virtualization Dell Appliance	\$41,000

### NVIDIA GRID Virtual Workstation Software - Requirement

This software must be purchased to support the ArcGIS Pro Virtualization Dell Appliance. The NVIDIA GRID Virtual Workstation Software can be purchased based on the number of **Concurrent Users** a customer desires. The appliance can support up to 25 users, but each customer user case can be different; therefore, flexibility in quantities and **License Types** are provided below.

#### Concurrent Annual Subscription Licenses

Item #	Description	Price
156090	25 Concurrent Annual Subscription Licenses of NVIDIA GRID Virtual Workstation Software with support, upgrade and maintenance program.	\$6,250
156121	10 Concurrent Annual Subscription Licenses of NVIDIA GRID Virtual Workstation Software with support, upgrade and maintenance program.	\$2,500
156122	1 Concurrent Annual Subscription License of NVIDIA GRID Virtual Workstation Software with support, upgrade and maintenance program.	\$250

#### Dell Memory and Storage Options

Item #	Description	Price
148634	Replace 256 GB RAM (8 x 32 GB RDIMMs) with 512 GB RAM (16 x 32 GB RDIMMs) at time of purchase	\$7,700
AMST	Additional 2 x 800GB Solid State 12Gbps SAS Hard Drives – up to an additional 5 pair of drives can be added	\$2,500 per pair

#### Professional Services Option

Please contact [EsriHWRequest@esri.com](mailto:EsriHWRequest@esri.com) if you are interested in obtaining a quote for on-site services to assist in getting the ArcGIS Pro Virtualization Dell Appliance installed within your environment.

## Support

### Dell Contact Options:

- Contact [Dell Technical Support](#)

### Esri Contact Options:

- Contact Esri Support online using the [Support Request Form](#) or call 1-888-377-4575, available from 5:00 a.m. to 5:00 p.m. (Pacific Time), Monday–Friday, excluding Esri holidays.

## Need a quote or more information?

Please email [ResaleProducts@esri.com](mailto:ResaleProducts@esri.com) if you would like to receive a quote for any of the products in this document or if you have any follow up questions regarding these offers.

Click [here](#) to search additional hardware offers by solution type or vendor.