

## Citrix ADC VPX

### Virtualizing the power of advanced web and application delivery and remote access services

#### Key Benefits

- Reduces hardware server costs by 60%
- Accelerates application performance by 5x
- Provides consolidation of remote access infrastructure with one URL
- Improves application security with centralized policy management, and security at the edge of the data center
- Provides SSL VPN-based remote access
- Ensures high availability
- Provides monitoring of application and network traffic

Citrix ADC VPX, formerly Citrix NetScaler ADC VPX, provides a complete web and application load balancing, secure and remote access, acceleration, security, and offload feature set in a simple, easy-to-install virtual appliance. IT organizations and cloud and telecom service providers of any size can deploy Citrix ADC VPX on industry standard hypervisors—on demand—anywhere in the data center.

Deploying applications can be time consuming, complex, and costly. Applications need to be continually deployed for new users and new devices. This can overwhelm the ability of IT departments and service providers to deliver applications on demand, provide an adequate user performance, and ensure the availability of applications and security. IT organizations are embracing virtualized infrastructure as a means to facilitate device consolidation, reduce costs, and shuffle resources on demand to rapidly respond to business needs.

#### Enable a virtual infrastructure

Citrix ADC VPX converges and consolidates networking infrastructure. It makes functionality typically only offered on specialized, high-end network devices available as a virtual appliance that can be easily and dynamically deployed on a single server or across entire enterprise data centers. The simplicity and flexibility of Citrix ADC VPX makes it easy and cost effective to fully optimize every application type. For example:

- Provide secure remote access and high availability for any application type like Citrix apps, web and enterprise apps, cloud and SaaS apps, and mobile apps
- Provision and de-provision Citrix ADC on demand in test and lab environments, telecom service, and cloud provider environments
- Cost effectively deploy full Citrix ADC functionality in front of applications, such as Microsoft SharePoint and Office Communication Server

#### Provide secure remote access

Citrix Gateway10 is part of the Advanced and Premium editions and offers secure remote access to any application whether it be web, legacy client-server, SaaS, mobile, or Citrix apps. In addition to basic and advanced ICA proxy functionalities offered, Citrix Gateway also provides:

- One URL for remotely accessing any application on any device type
- SAML 2.0 federated identity for enabling single sign-on across all application types
- Centralized policy management for Citrix
- Virtual Apps and Desktops using SmartControl
- Anywhere access on iOS5 and Android6 mobile devices
- Support for Linux ,7 MacOS8, and Windows9 operating systems

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For more information on Citrix Gateway, please refer to the [Citrix Gateway product overview](#).

### **Leverage in-place processing capacity**

With Citrix ADC VPX, IT and service providers can take full advantage of virtualized servers and associated resources that are already in place and deploy application delivery controllers and remote access SSL VPN gateways on-demand anywhere in any network or data center. Citrix ADC VPX is not dependent on specific server hardware, which enables enterprises to exploit low-cost, commodity server platforms. In addition, multiple Citrix ADC instances can be deployed on a single physical server to maximize utilization of hardware infrastructure. At the other end of the spectrum, service providers now have the option to utilize whatever special-purpose hardware—for example, NEBS compliant or DC-powered systems—from whatever source best meets their needs or internal standards.

### **Protect infrastructure investments**

The ability to easily upgrade Citrix ADC VPX licenses and swap out underlying hardware platforms to up-size or down-size an implementation as needed represents a considerable degree of investment protection, especially relative to fixed form-factor alternatives. In addition, a broad range of price-performance combinations ensures that there is a good fit for every use case, from small-to-medium and departmental implementations to those typical of larger enterprises and service providers.

### **Provision infrastructure on demand**

Citrix ADC VPX enables organizations to dynamically provision crucial application delivery and remote access services in support of dynamically provisioned applications. With Citrix ADC VPX, individual applications and the functionality required to ensure their availability, performance, and security can be spun up, spun down, and even migrated as conditions dictate. Responsiveness is enhanced at the same time that the use (and re-use) of computing resources is optimized, further improving operational efficiency and automation.

### **Customize web and application delivery**

IT organizations and service providers can mix physical and virtual appliances to create a web and application delivery fabric. Specifically, MPX appliances can be deployed at the datacenter edge to address high-capacity network-wide actions, while Citrix ADC VPX can be deployed on-demand deeper within the data center core to handle application-specific processor intensive actions—all managed via Citrix Command Center. This provides the lowest

TCO and greatest flexibility. By exploiting the specific strengths of both physical and virtual appliances, the resulting web and application delivery fabric enables maximum functionality and flexibility at minimum cost. Further key advantages of this approach include:

- Tuning advanced delivery capabilities to meet the requirements of each specific application
- Separating and isolating application delivery services along different organizational boundaries

VPX models	Minimum Memory <sup>1</sup>	vCPUs <sup>2</sup>	AWS	Azure	ESXi	KVM	Citrix Hypervisor (XenServer)	Hyper-V	Recommended Network Driver
VPX 100G	2 GB	2-20			•	•			PCI pass-through
VPX 40G	2 GB	2-20			•	•	•		SR-IOV
VPX 25G	2 GB	2-16			•	•	•		
VPX 15G	2 GB	2-12			•	•	•		VMXNET34 or SR-IOV*
VPX 10G	2 GB	2-10			•	•	•		
VPX 8000	2 GB	2-6			•	•	•		VMXNET34 or Paravirtualization
VPX 5000	2 GB	2-6	•		•	•	•		
VPX 3000	2 GB	2-4	•	•	•	•	•	•	
VPX 1000	2 GB	2-4	•	•	•	•	•	•	
VPX 200	2 GB	2	•	•	•	•	•	•	
VPX 25	2 GB	2	•	•	•	•	•	•	
VPX 10	2 GB	2	•	•	•	•	•	•	

Performance <sup>3</sup>	Minimum	Maximum
System throughput	10 Mbps	100 Gbps
SSL transactions/sec (2K key certificates)	1100	20,000
SSL ECDHE transactions/sec (2K key certificate3s)	880	17,280
SSL throughput	10 Mbps	30 Gbps
SSL VPN/ICA proxy concurrent users	15	9000

#### Hypervisor Versions

ESXi: All VPX appliances are supported on versions 5.5,6.0,6.5. VPX 10, 25,200,1000 & 3000 can be supported on 5.1.

Hyper-V: Designated VPX appliance models supported on version 2012,2012 R2, 2016.

Citrix Hypervisor: Designated VPX appliance models supported on version 6.5. VPX 10,25,200,1000 & 3000 can be supported on 6.2.

\* Performance validated for Citrix Hypervisor using SR-IOV only.

- For standard license, VPX minimum memory requirement is 2GB for up to 2 vCPUs. For enterprises or platinum license, VPX minimum memory requirement is 4GB for up to 2 vCPUs. For the optimal performance, irrespective of the license, we recommend 4GB memory per vCPU. E.g., for a VPX with 6vCPU, we recommend to have 6 x 4GB = 24GB memory allocated.
- Processors supported: Intel VTx.
- Citrix ADC performance with HP Proliant DL360p Gen8 with Intel® Xeon® CPU E5-2690 v2 @3.00 GHz. Expected ECDHE performance is 880 per vCPU.
- VMXNET3 is supported on ESXi versions only.
- Requires iOS 7.1 or later. Compatible with iPhone, iPad and iPod touch.
- Requires Android 4.1.x & 4.2.x (Jelly Bean), 4.4.x (KitKat), 5.x (Lollipop).
- Ubuntu 14.04 32bit/64bit, Ubuntu 12.04 32bit/64bit.
- OS X 10.9 (Mavericks), OS X 10.10 (Yosemite).
- Windows 7, 8, and 8.1 (32bit/64bit).
- For ADC versions after 11.1, the Standard edition includes (500) Universal licenses, Enterprise or Advanced editions include (1000) Universal licenses, and there are no Universal license requirements with Platinum or Premium editions. For versions previous to NetScaler ADC 11.1, the Standard and Enterprise editions include (5) Universal licenses, and the Platinum edition includes (100) Universal licenses. Universal license entitlements are per High Availability (HA) pair or per cluster depending on how you deploy Citrix ADC



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