

Citrix Branch Repeater with Windows Server Product Overview

Increase productivity and reduce cost in every enterprise branch



Key benefits

Application staging

- Stage and accelerate Citrix XenApp streamed applications
- Cache Web content with optional Microsoft ISA Server

Application acceleration

- LAN-like performance for branch applications delivered over the WAN
- Dynamic, network-aware tuning of optimizations
- Industry-leading compression reduces bandwidth consumption

No-compromise server consolidation

- Fully integrated Windows services
- Branch productivity during WAN outages

The branch is often the public face of the enterprise. Retail, financial services, healthcare, education and government sectors rely on the branch to serve customers. Enterprises wishing to offer better customer service and achieve higher branch user productivity increase the dependence of their branches on information technology. IT administrators are challenged to meet the needs of the ever-growing population of branch IT users while pursuing infrastructure optimization initiatives that centralize applications, data and servers to lower IT operating costs and meet data security mandates. IT consolidation initiatives that reduce the cost of servicing branches can impose a productivity penalty on branch users due to the realities of the modern Wide Area Network (WAN). At one time, the branch WAN link carried only static enterprise data on a dedicated circuit. Today it must support rich enterprise applications in the often-hazardous conditions caused by the proliferation of Internet-based WAN services.

Citrix Branch Repeater appliances are branch optimization solutions that increase productivity and reduce IT costs in every enterprise branch by delivering LAN-like application performance over the WAN, improved use of existing network bandwidth and consolidated branch IT infrastructure. User complaints and help desk calls are reduced, critical data can be centralized and branch IT infrastructure and bandwidth costs are brought under control. Enabling consolidation while ensuring productivity is branch optimization done right.

Best WAN Optimization Solution for XenApp

Application Total Cost of Ownership (TCO) can be dramatically reduced with Citrix XenApp™ client-side application virtualization, also known as application streaming. Combining the benefits of centralized application deployment with local application isolation and support for offline operation, application streaming is a radically simpler approach to delivering Windows applications. Citrix Branch Repeater with Windows Server can stage streamed applications in the branch, speeding application installation and maintenance. This approach also provides significant bandwidth savings since the streamed application package is only transferred across the WAN once, rather than once for each streaming user in the branch.

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WAN optimization

Paired with Citrix WANScaler appliances in the datacenter, Citrix Branch Repeater with Windows Server provides proven WAN optimization capabilities that automate all WAN acceleration mechanisms based on real-time application traffic and network conditions — without complex manual or static configurations. WAN optimization minimizes the impact of latency on application performance and maximizes WAN capacity, with adaptive TCP flow control to mitigate TCP performance penalties from packet loss and re-transmission. Citrix Branch Repeater with Windows Server offers industry-leading compression technology to reduce link congestion, increase data throughput and accelerate application response. Unique multi-level compression selects optimal compression methods based on network load conditions, WAN bandwidth and traffic type. Immediate detection and optimization of application protocols such as CIFS, FTP, NFS and HTTP mitigate protocol inefficiencies by proxying client-server handshakes, reducing protocol chattiness and optimizing payload. Faster application response times and better bandwidth utilization result. Congested link conditions can be easily managed with Quality of Service (QoS) mechanisms, including ICA®-aware QoS for ensuring the performance of Citrix XenApp and Citrix XenDesktop™.

Local branch services

Branch infrastructure optimization initiatives often include server, application and data consolidation. Citrix Branch Repeater with Windows Server can act as the “*fast server*” in the branch by delivering required branch IT infrastructure services such as file serving, print serving, authentication, authorization and core network services such as DHCP and DNS, all provided by the industry’s most reliable and interoperable operating system: Microsoft® Windows Server®.

Enterprise class features

Powerful Windows management mechanisms

IT infrastructure optimization requires centralized management. Citrix Branch Repeater with Windows Server offers Windows Management Interface (WMI) for WAN optimization functionality that work in parallel with WMI providers for the operating system. The result is comprehensive, centralized management of branch service infrastructure. Using Microsoft System Center Operation Manager, an entire enterprise deployment of Citrix Branch Repeater with Windows Server appliances can be centrally and seamlessly managed. Consummate management flexibility is available using WMI scripting under Windows PowerShell™.

Flexible deployment options and network transparency

For deployment flexibility, Citrix Branch Repeater with Windows Server can join the branch network with in-line, policy-based routing or WCCP (Web Cache Communication Protocol) modes. The solution is transparent to both applications and the network. All accelerated application traffic flows traverse the WAN without intrusive tunneling technology, which can obscure vital IP and TCP header information. If inline deployment and high availability requirements demand it, Citrix Branch Repeater with Windows Server is available in configurations including a Bypass Network Interface Card (NIC) that provides continuous access to the WAN in the unlikely event of an appliance offline state.

Adaptable to changing business requirements

Citrix Branch Repeater with Windows Server is available in several models that allow customers to right-size the infrastructure, and upgrades are available to allow for future branch and/or network bandwidth growth. Branch Repeater may be augmented with customer-installed management and security agents. Check www.citrix.com/branchrepeater for information on currently supported agents. For the enterprise branch using the World Wide Web for business processes, the Web Caching module of the Microsoft Internet Security and Acceleration (ISA) Server is available as an option.

Key features

Application staging and branch services

Native Windows services

- Print services
- File services
- Distributed File Service (DFS)
- Domain Name Services (DNS)
- Dynamic Host Control Protocol (DHCP)
- Internet Name Service (WINS)
- Active Directory® (AD)
- Domain Controller

Citrix branch services

- Citrix XenApp streamed application file staging

Application acceleration

TCP flow control

- Transparent acceleration
- Dynamic optimization

Multi-level compression

- Multiple high-speed compression algorithms
- Differential (Delta) compression

Application protocol optimizations

- CIFS
- FTP
- HTTP
- NFS

ICA-aware QoS

Management and deployment

Windows user interface

- Microsoft Management Console (MMC)
- Windows Management Interface (WMI)
- Microsoft System Center 2007 Management Pack

Deployment modes

- Inline
- Policy-based routing (PBR)
- WCCPv2

Product offerings

Model	Description
100	Citrix Branch Repeater with Windows Server for WAN links up to 1 Mbps
200	Citrix Branch Repeater with Windows Server for WAN links up to 2 Mbps
300	Citrix Branch Repeater with Windows Server for WAN links up to 10 Mbps

Product options

Option	Description
ISA Option	Microsoft ISA Web Caching option for models 100, 200, 300
Bypass NIC Option	Bypass Network Interface Card option for models 100, 200, 300

Platform specifications

Chassis	
Dimensions:	1.75" (4.5cm) H x 17.25" (43.8cm) W x 11.5" (29.2cm) D
Weight:	10.8 lbs (4.9 kg)
Power	Wattage 73W typ., 200 W max. Voltage 100-240 VAC, 50-60 Hz
Operating Ranges	Temperature and Humidity 0-40C; 10%-90%, non-condensing
Non-operating Ranges	Temperature and Humidity -40 to 70C; 5%-95%, non-condensing
Certifications	FCC, CSA, C-Tick, FCC, TUV, CE, CB, RoHS

Citrix Delivery Center is an application delivery infrastructure system that transforms IT into an on-demand service by centralizing the management and delivery of applications and desktops. It simplifies IT operations by managing a single image of applications, desktops and servers, accelerating application roll-outs and reducing IT operating costs up to 50 percent. The Citrix Delivery Center™ product family includes Citrix XenServer™, Citrix XenDesktop™, Citrix® NetScaler® and Citrix XenApp™.

Citrix XenServer is open, powerful server virtualization that radically reduces datacenter costs by transforming static and complex datacenter environments into more dynamic, easy to manage server workload delivery centers.

Citrix XenDesktop is a desktop virtualization system that centralizes and delivers desktops as a service to users anywhere, and reduces desktop TCO up to 40 percent.

Citrix NetScaler makes Web apps run five times better by single-handedly offloading servers, accelerating performance and integrating application security.

Citrix XenApp is a Windows application delivery system that manages applications in the datacenter and delivers them as an on-demand service to users anywhere.

The Citrix Delivery Center includes:

- Citrix Access Gateway™ — a secure application access solution that provides administrators granular application-level policy and action controls to secure access to applications and data while allowing users to work from anywhere.
- Citrix Branch Repeater — an integrated branch office appliance that delivers LAN-like application performance over the WAN, while reducing bandwidth requirements and the number of servers required in each location.

Citrix Worldwide

Worldwide headquarters

Citrix Systems, Inc.
851 West Cypress Creek Road
Fort Lauderdale, FL 33309
USA
T +1 800 393 1888
T +1 954 267 3000

Regional headquarters

Americas

Citrix Silicon Valley
4988 Great America Parkway
Santa Clara, CA 95054
USA
T +1 408 790 8000

Europe

Citrix Systems International GmbH
Rheinweg 9
8200 Schaffhausen
Switzerland
T +41 52 635 7700

Asia Pacific

Citrix Systems Hong Kong Ltd.
Suite 3201, 32nd Floor
One International Finance Centre
1 Harbour View Street
Central
Hong Kong
T +852 2100 5000

Citrix Online division

6500 Hollister Avenue
Goleta, CA 93117
USA
T +1 805 690 6400

www.citrix.com

About Citrix

Citrix Systems, Inc. (NASDAQ:CTXS) is the global leader and the most trusted name in Application Delivery Infrastructure. More than 215,000 organizations worldwide rely on Citrix to deliver any application to users anywhere with the best performance, highest security and lowest cost. Citrix customers include 100 percent of the *Fortune* 100 companies and 99 percent of the *Fortune* Global 500, as well as hundreds of thousands of small businesses and prosumers. Citrix has approximately 8,000 partners in more than 100 countries. Annual revenue in 2007 was \$1.4 billion.

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