

# Citrix Branch Repeater - Enterprise Edition

## Product Overview

### Optimized branch application delivery from Citrix Delivery Center with local branch services



#### Key benefits

##### Application staging

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

##### 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

- Local IT infrastructure 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. And 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. And if all local servers are removed, the branch can become a desert island during WAN outages.

Citrix Branch Repeater Enterprise Edition, a comprehensive branch solution, can optimize application delivery from Citrix Delivery Center and beyond, while simultaneously providing key native Windows® branch infrastructure services. Paired with Citrix WANScaler™ appliances in the data center, Citrix Branch Repeater, Enterprise Edition can optimize the staging of application data and speed dynamic data over the WAN to deliver on the promise of the fully productive branch.

#### Staging application data

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 brings more applications to more users. Citrix Branch Repeater, Enterprise Edition can stage streamed applications in the branch, speeding application installation and maintenance.

#### WAN optimization

Citrix Branch Repeater includes 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 offers industry-leading compression technology to reduce link congestion, increase data throughput and accelerate application response. Citrix's 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 can act as the “last 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, Enterprise Edition offers Windows Management Interface (WMI) providers 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 solutions such as Microsoft System Center Operation Manager, an entire enterprise network of Citrix Branch Repeaters 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 can join the branch network with in-line, policy-based routing or WCCP (Web Cache Communication Protocol) modes. Branch Repeater 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 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 is available in several models and bandwidth upgrades allow for branch and resulting network bandwidth growth. Branch Repeater may be augmented with customer-installed management and security agents. Check [www.citrix.com/branchrepeater](http://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 for Citrix Branch Repeater, Enterprise Edition.

## 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 Enterprise Edition, for WAN links up to 1 Mbps
200	Citrix Branch Repeater Enterprise Edition, for WAN links up to 2 Mbps
300	Citrix Branch Repeater Enterprise Edition, 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 the first solution on the market with the ability to deliver applications and desktops to any user, anytime, anywhere from a secure central location. The Citrix Delivery Center™ product family features our primary product lines: Citrix XenApp™ — the new name for Citrix Presentation Server™ — Citrix® NetScaler®, Citrix XenServer™, Citrix XenDesktop™, and Citrix Workflow Studio™.

**Citrix XenApp** is the industry's de facto standard for delivering Windows-based applications enabling the best performance, security and cost savings. With more than 70 million users and 99 percent of the *Fortune* Global 500 as customers, it uses state-of-the-art client- and server-side application virtualization to deliver applications to office and mobile workers from a secure centralized location.

**Citrix NetScaler** is a purpose-built Web application delivery solution that accelerates application performance up to five times while improving security and reducing Web infrastructure costs. It is also the delivery infrastructure of choice for most of the world's largest Web sites, touching an estimated 75 percent of all Internet users each day.

**Citrix XenServer** is an enterprise-class solution for virtualizing application workloads across any number of servers in the datacenter as a flexible aggregated pool of computing resources. It is the first solution to provision application workloads across physical and virtual servers making the entire datacenter more dynamic.

**Citrix XenDesktop** is the industry's first comprehensive Virtual Desktop Infrastructure (VDI) solution. It enables simple, secure and cost effective delivery of Windows desktops to any office worker with an unparalleled user experience.

**Citrix Workflow Studio** is an orchestration tool that allows administrators to far more easily create and integrate application delivery processes across Citrix and third-party products, allowing them to work together as a single cohesive system.

The Citrix Delivery Center includes the following solutions which are part of the product lines listed above. These are also available as standalone options:

- Citrix Access Gateway™ — for secure application access. Empowers users with easy “anywhere” access and provides administrators market-leading application-level control.
- Citrix® Branch Repeater Enterprise Edition™ — for the productive enterprise branch. Deliver optimized applications and desktops from Citrix Delivery Center™ to branch users integrated with local branch services.
- Citrix Password Manager™ — for enterprise single sign-on. Improves password security and user productivity with the industry's most secure, efficient, and easy-to-deploy enterprise single sign-on solution.
- Citrix Provisioning Server™ — for datacenter and for desktop systems. Provisioning Server for Datacenters uses streaming technology to deliver workloads on-demand to physical or virtual servers. Provisioning Server for Desktops streams operating systems and software on-demand to physical desktops. Centralized system provisioning reduces operating costs, and improves security, flexibility and reliability.
- Citrix WANScaler™ — for branch and mobile user application delivery. Accelerates application performance over the WAN by 5 to 30x and deliver LAN-like productivity for WAN-based applications.

#### About Citrix

Citrix Systems, Inc. (Nasdaq:CTXS) is the global leader and the most trusted name in application delivery infrastructure. More than 200,000 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% of the *Fortune* 100 companies and 99% of the *Fortune* Global 500, as well as hundreds of thousands of small businesses and prosumers. Citrix has approximately 6,200 channel and alliance partners in more than 100 countries. Annual revenue in 2007 was \$1.4 billion.

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