

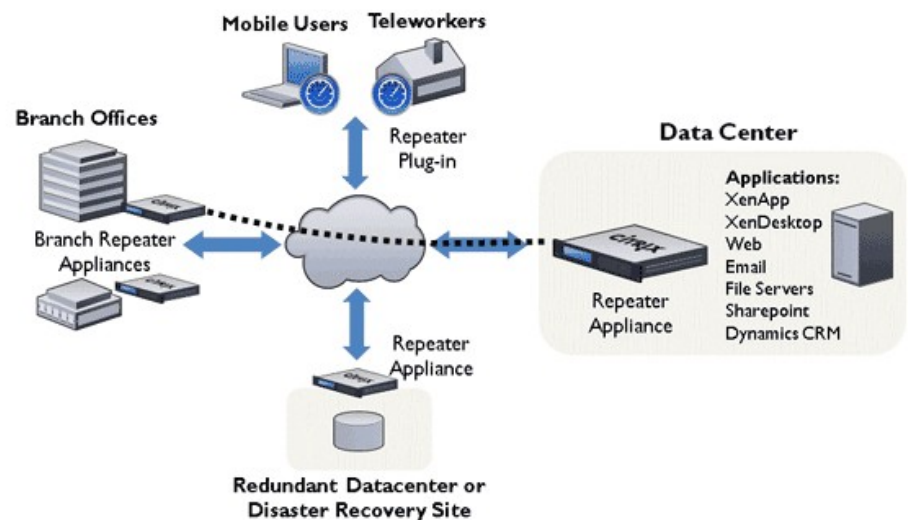
Citrix Branch Repeater

Deliver a high definition experience and reduce application delivery costs

Key Benefits;

- **LAN Like performance**
 - Proven acceleration of 5-30x
 - Overcome latency, bandwidth limitations and protocol inefficiencies
- **Improves use of existing network bandwidth**
 - Increase WAN throughput and bandwidth efficiency
 - Reduce bandwidth consumption with industry leading compression
 - Prioritise application traffic on-the-fly
- **Lowest TCO for branch optimisation**
 - Complete network transparency for easy deployment and simplifies operations
 - Dynamic, self tuning of optimisations
 - Automatic discovery of remote peer appliances

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 optimisation initiatives that centralise 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.



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Citrix Branch Repeater appliances are branch optimisation 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 centralised and branch IT infrastructure and bandwidth costs are brought under control. Enabling consolidation while ensuring productivity is branch optimisation done right.



Citrix Repeater (formerly known as WANScaler) appliances are deployed in the data centre and optimise application traffic across multiple branches (Branch Repeaters), as well as remote and mobile users (Repeater Plug-ins).

Citrix Branch Repeater appliances are deployed at branch offices and accelerate application delivery to distributed branch offices and other remote locations via HDX Broadcast and HDX IntelliCache technology for hosted virtual applications.

Citrix Branch Repeater with Windows Server appliances are complete branch office solutions that integrate and consolidate WAN optimisation, application acceleration and critical Windows® services (DHCP, DNS, file, print and more) onto a single appliance. In addition to HDX Broadcast and HDX IntelliCache technology for hosted virtual applications, Branch Repeater with Windows Server includes HDX IntelliCache technology for streamed virtual applications.

Citrix Repeater Plug-in for Citrix Receiver (formerly known as WANScaler Client) resides on remote users' desktops and laptops, and delivers application acceleration and optimisation for individuals anywhere.

Branch Repeater, Branch Repeater with Windows Server and Repeater Plug-in all require Repeater appliances in the datacentre.

Increase user productivity due to LAN-like application performance over the WAN

Traffic reduction - Compression history is stored locally such that only new data is sent across the WAN link, thereby reducing traffic. This is also referred to as de-duplication.

Traffic compression - Compress and reduce the amount of data that is sent across the network to free up bandwidth for other application traffic.

Flow control - Mitigate the harmful effects of network latency and jitter.

QoS - Administrators can set rules that indicate which types of application traffic have the highest priority.

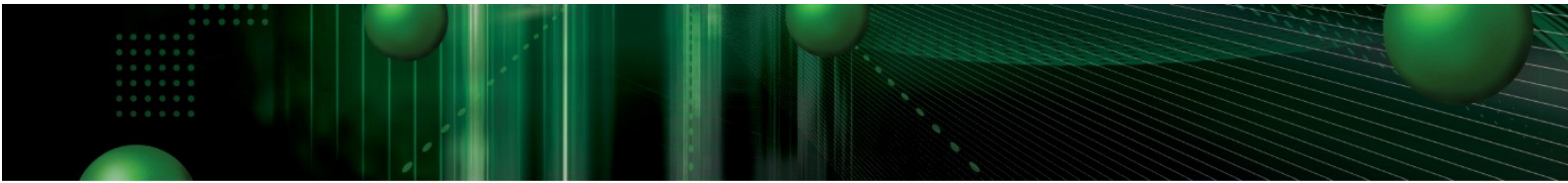
Stage XenApp streamed applications - Deliver streamed XenApp applications rapidly to branch users, by caching the applications closer to the branch users.

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Dramatically reduce bandwidth and branch management costs

- *Traffic reduction* - Compression history is stored locally such that only new data is sent across the WAN link, thereby reducing traffic. This is also referred to as de-duplication.
- *Traffic compression* - Compress and reduce the amount of data that is sent across the network to free up bandwidth for other application traffic.
- *Simplify branch infrastructure* - Consolidate branch infrastructure down to a single appliance that provides both Microsoft Windows services and WAN optimisation capabilities.

Reduce branch management costs - Reduce the number of servers in the branch and leverage existing management tools to remotely manage Branch Repeaters

Powerful management mechanisms

Citrix Branch Repeater is easy to deploy and does not require constant tuning in order to keep it operating at peak performance. When administrators do need to manage the system, they can do so remotely using an intuitive Web console or via Command Line Interface (CLI). For large scale deployments, Branch Repeater appliances can be managed using Citrix Command Centre. This Powerful management suite supports automated appliance discovery, centralised configuration management and advanced monitoring and reporting features.

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 tunnelling 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. 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.

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High definition experience for all XenApp users

Branch Repeater solutions adaptively orchestrate with XenApp servers—delivering Citrix HDX technologies to provide all users with a high definition experience:

HDX Broadcast

Branch Repeater optimises network utilisation by adaptively tuning to real-time network and traffic conditions—delivering a high definition experience to the user regardless of network latencies, bandwidth availability and network reliability.

- *Adaptive TCP Flow Control* optimises the flow of network traffic across multiple connections in a branch by sensing and responding to the network and traffic conditions across the entire branch.
- *Adaptive Compression* reduces bandwidth consumption and maximizes application performance by adaptively applying optimal compression techniques based on traffic characteristics, infrastructure capabilities and network conditions.
- *Adaptive Protocol Acceleration* provides intelligent acceleration of the ICA protocol by adaptively orchestrating with XenApp, while sensing and responding to the network and traffic conditions.
- *Traffic Prioritization and QoS* aligns the network utilisation with the business priorities by adaptively allocating network bandwidth to and prioritising traffic from different applications, including XenApp.

HDX IntelliCache

- *Branch Staging for Streamed Applications* – Branch Repeater stages streamed applications locally in the branch, providing all the IT consolidation and management benefits of streaming while also delivering high performance access to the streamed applications in the branch. Whenever the streamed applications are updated or patched in the data centre, Branch Repeater transparently updates them locally so branch users will always and quickly get the latest version of the streamed application.
- *Branch Caching for Hosted Applications* – Branch Repeater optimises XenApp delivery across multiple user sessions by locally caching and de-duplicating transmission of commonly accessed data, files and Web pages through hosted applications.

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the solution

Citrix Delivery Centre is an application delivery system that transforms IT into an on-demand service by centralising 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 Centre™ product family includes Citrix XenServer™, Citrix XenDesktop™, Citrix® NetScaler® and Citrix XenApp™.

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

Citrix XenDesktop is a desktop virtualisation system that centralises 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 datacentre and delivers them as an on-demand service to users anywhere.

The Citrix Delivery Centre 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.

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