

HP Velocity on HP Thin Clients

Accelerate network performance with HP Thin Clients



Network performance improvements with HP Velocity

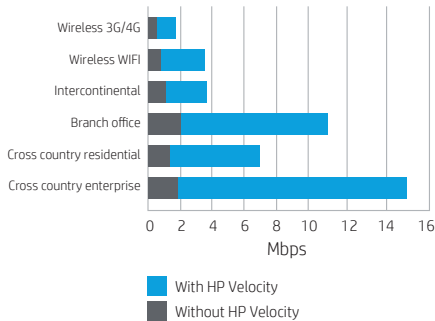


Figure 1. Effective network performance seen by user under different network conditions.¹

The network is the experience HP Velocity Benefits

Network performance is a primary factor impacting end user quality of experience (QoE) for application and desktop virtualization. QoE is often degraded by network conditions such as packet loss, latency and WiFi congestion with these network issues resulting in slow UI responsiveness, slow file transfers and poor quality video and audio.

- Clearer voice and smoother video
- Higher video frame rates
- More fluid mouse and keyboard interaction
- Faster data transfers

(See Figure 1)

Optimized user experience

QoE problems are compounded further when users work remotely, connecting across unmanaged networks not controlled by IT, such as remote and branch offices, teleworkers, as well as WiFi and 3G/4G. Diagnosing QoE problems for these users is also challenging due to the lack of network management visibility of these networks.

HP Velocity improves the QoE of all thin client applications whether accessed via ICA, RDP, RGS or PCoIP and automatically tunes itself to the needs of each protocol. It also improves the audio and video quality of unified communications clients running directly on thin clients. HP Velocity provides significant performance improvements in both managed and unmanaged network environments. Performance for branch and remote offices, teleworker and users of WiFi and 3G/4G networks are dramatically increased. Figure 1 shows the improved effective network performance seen by users over varying network conditions.

Addressing your most challenging network bottlenecks

HP Velocity is a software solution that improves the user experience for remote desktop and virtualized applications by addressing common network bottlenecks such as packet loss, network latency and WiFi congestion.

HP Velocity is included with most² HP Thin Clients and includes optimizers that address network latency, packet loss and WiFi inefficiencies, providing greatest improvement for

- HP Velocity on HP thin clients provides:
- Clearer voice and smoother video for unified communications and streaming video
 - Higher video frame rates
 - More fluid mouse and keyboard interaction
 - Faster data transfers

- Remote and branch offices
- Teleworkers
- WiFi and 3G/4G

When HP Velocity detects network issues, it automatically enables its integrated optimizers to maximize end user QoE. HP Velocity automatically tunes these optimizers and adapts as network conditions change, ensuring maximum QoE for each end user.

End-to-End Control and Visibility

HP Velocity extends IT control outside the corporate network, across unmanaged networks, all the way to the end user. It is fully configurable through its powerful policy engine, allowing IT to specify how each application and end user should be optimized.

HP Velocity delivers unprecedented end-to-end visibility of key application flows, across both managed and unmanaged networks. When QoE issues are reported by end users, HP Velocity provides IT with a complete toolkit of per-flow metrics and insight into potential end-system bottlenecks including:

- Per-flow end-to-end packet loss, latency, data and packet rates
- Network type and current link speed
- CPU and memory utilization

More information on end-to-end control and visibility can be found in the “HP Velocity Administrator Guide.”

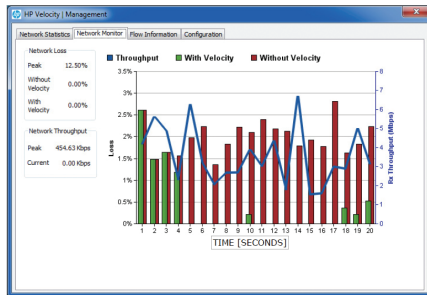


Figure 2. HP Velocity provides end-to-end visibility of key application flows, across both managed and unmanaged networks. Remote visibility to network throughput and packet loss rates are shown above

Getting Started

HP Velocity improves network performance between any two points where it is installed. HP Velocity has a flexible architecture, allowing it to be inserted in multiple places within the data center. It can be deployed within guest operating systems, terminal services servers, firewalls and gateways.

Here is an example of setup procedure in a VDI environment:

1. Setup server side software by downloading “HP Server Side Component” and installing to guest OS in the golden image. No additional setup is required, but more details can be found in the “HP Velocity Administrator Guide.”
2. The client side software is pre-installed and enabled on thin clients and does not require additional setup. For more information, refer to “HP Velocity Administrator Guide.”

Once both server and client side have HP Velocity installed, it will use beaconing to find a pair and will start optimizing the link.

Typical installation and configuration of both server and client components can be completed in less than 30 minutes. Licenses for both the thin client and server side software are included with the purchase of every HP thin client at no additional cost.

Additional Information

Thin Clients supported by HP Velocity
All HP Thin Clients**

HP Velocity Product Guides

- HP Velocity Solution Brief
- HP Velocity Technology Overview
- HP Velocity Administrator Guide

HP Velocity Software

HP Velocity Server Side Software

Other Resources

HP Velocity Video
HP Velocity Case Study


For more information visit
hp.com/go/velocity

¹ Effective bandwidth seen by user. Packet loss/Latency conditions used for benchmarking: Cross Country Enterprise: 1%/60ms; Cross Country Residential: 1.5%/100ms; Branch Office: 0.50%/100ms; Intercontinental: 1%/250ms; Wireless WiFi: 2%/150ms; Wireless 3G/4G: 5%/200ms; Tested with network simulator included with Linux 2.6.27.15 kernel.

² HP Velocity compatible with all HP Thin Clients, except the t310 and t420 thin clients.

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