Remote Desktop Protocol (RDP)
Aryaka Cloud-based WAN Optimization

PERFORMANCE BRIEF

Remote Desktop Protocol (RDP)

The Microsoft Remote Desktop Protocol (RDP) provides remote display and input capabilities over network connections for Windows-based applications running on a server running on a server. RDP is designed to support different types of network topologies and multiple LAN protocols. Wih RDP, applications or the entire desktop can be accessed remotely.

RDP is a secure network communication protocol for Windows-based applications. However, it is susceptible to the limitations that arise when accessed over long distance WAN links prone to unpredictable latency, congestion and packet loss. When this occurs, the overall network can be adversely affected, reducing responsiveness and slowing application performance.

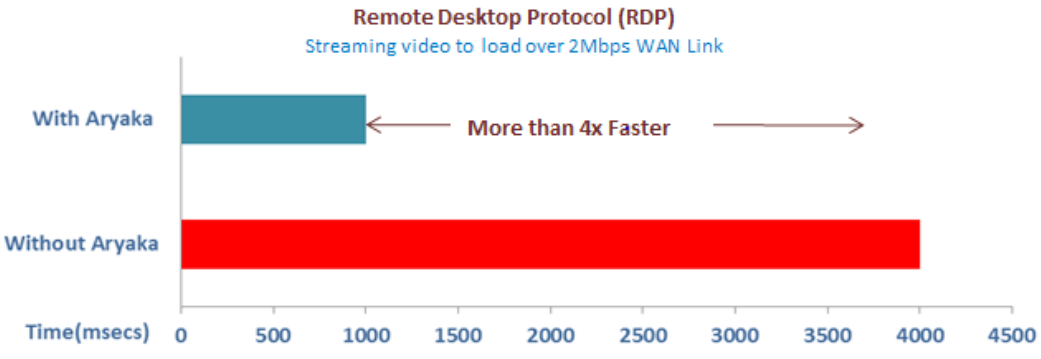
Test Results

WITH ARYAKA	TIME
4x faster	1 second

WITHOUT ARYAKA	TIME
Slow video frame	4 seconds

Aryaka Optimizes RDP performance

Aryaka's cloud-based WAN optimization and application acceleration solution delivered as-a-service offers significant performance benefits for remote desktop. Aryaka's technology addresses bandwidth constraints through TCP optimization, compression and data de-duplication (ARR™), dramatically improving the application performance over the WAN in the most demanding customer environments.



RDP on Aryaka means faster application response, which provides users LAN-like experience. Aryaka performs compression on RDP traffic; which dramatically improves the performance of the application. Before Aryaka, a video frame took four seconds to load on an RDP session. With Aryaka, the video frame loaded in one second—4 times faster! Aryaka also can prioritize application and terminal services by applying quality of service (QoS). In addition, the dedicated, closed and secure Aryaka network minimizes latency variations and maximizes the use of available bandwidth.

691 S. Milpitas Boulevard Milpitas CA 95035 1-877-7 ARYAKA www.aryaka.com

- ✔ With Bandwidth Optimization, the response time was reduced from 4 seconds to 1 second
- ✔ Overall Bandwidth capacity increased by 4x
- ✔ Aryaka optimizes MS Remote Access and provides better quality due to increased response time

Key Benefits

- Increased Performance with real time visuals
- Better user-experience
- Faster and efficient response time
- Optimal performance with minimal delay

Test Bed Parameters

Client – Windows Vista Ultimate 64

Server – Windows Server 2008r2

File type – Word and Excel files across WAN

- 2Mbps WAN link
- 40ms and 20ms latency on two edge links
- 240ms latency on the core network
- The operations included opening the file, editing the file and closing the file

Use Case

- 9.6Mbps bandwidth utilization was reduced to 236.3kbps
- 34x optimized transfer over Aryaka

Reference Architecture

ABOUT ARYAKA, INC:

Aryaka is the world's first cloud-based WAN optimization company solving application and network performance issues faced by the distributed enterprise. Aryaka has been named "Cool Vendor" by a leading analyst firm and to the GigaOm Structure 50 list for companies that will shape the future of cloud computing. Aryaka eliminates the need for expensive and complex appliances as well as long-haul connectivity, and enhances collaboration across locations. It offers significant cost, ease-of-use and performance advantages, helping global companies achieve dramatic productivity gains and increased visibility into their WAN applications, locations and performance, while providing 24/7 world-class support.

Aryaka

691 S. Milpitas Blvd.
Milpitas, CA 95035
Tel: 1-877-7 ARYAKA
www.aryaka.com