ATI-Industrial Automation Case Study: Boosting performance between US and China sites for a global manufacturer

February 2021

The challenge

ATI-Industrial Automation, the world-leading engineering-based developer of robotic accessories and robot arm tooling, experienced Internet performance issues between their US and China sites, even though the connection is registered with the Ministry of Industry. These performance issues resulted in severe disruption to the work of China-based employees required to access US based applications. The main problems were that the Remote Desktop was not maintaining connection and the Transmission Control Protocol's random ports were blocked for data transfer, causing reconfigurations on clients and servers.

The solution: Teridion for Enterprise

Teridion set up its Teridion for Enterprise solution to deliver a fast and secure site-to-site connection between Langfang China and Apex in North Carolina, US, where the company's headquarters is.

The WAN service is built on the networks of over 25 public cloud providers worldwide which guarantee full redundancy and high availability. Because the Teridion network works with any edge device, ATI didn't need to invest in additional equipment and use its current devices at the edge, it also meant a super-quick and easy onboarding. Essentially, ATI-Industrial Automation enjoys carrier-grade private WAN links.

"Teridion has been a god send for our connectivity with China. We compared many other SD-WAN solutions and Teridion was able to do what other vendors offered with no proprietary equipment. They have gone above and beyond with their service and address any issues quickly. I do not hesitate recommending Teridion for any business that needs fast and reliable connectivity to China.

Results

Teridion significantly improved Throughput, voice and video performance, and reduced loss and delays.

Significant improvements to packet loss. ATI-Industrial Automation spent 270X more time outside of the threshold without Teridion.

	Loss	Throughput	MOS	Delay
Baseline	11.2	5,841 kbps	1.97	127ms
Teridion	0.0	26,325 kbps	4.21	142ms
Delta	100% better	451% better	213% better	12% higher

Significant improvements of latency. ATI-Industrial Automation spent 23X more time outside of the threshold without Teridion.

	Loss threshold >.2%	Throughput >10 mbps	MOS threshold >3.8	Delay threshold <150
Baseline	Below threshold 19%	Above threshold 12%	Above threshold 22%	Below threshold 97.7%
Teridion	Below 99.8%	Above 100%	Above 100%	Below 99.9%
Delta	80% better	88% better	78% better	2.2% higher

TERIDION

Resources

Teridion Whitepaper: The Internet Backbone Problem

Teridion Whitepaper: Teridion For SaaS Technical Overview

Request A Demo

Teridion Partner Program

Interested in becoming a Teridion reseller? Let's talk.

USA
300 Brannan St., Suite 101
San Francisco, CA 94107
1-844-TERIDION

Israel
Bazel St 25, 1st Floor
Petah Tikva, Israel
+972 77-220-0077

www.teridion.com | sales@teridion.com