Challenge: Leading WAN Optimization Solution Fails to Deliver

KOICA provides development aid to combat poverty through more than 45 offices located in struggling third world countries in Africa, Asia, the Middle East and Latin America. At these remote locations, web applications took several minutes to load, and often stalled completely due to poor network conditions. Some sites relied on volatile Wi-Fi networks that were subject to severe RF interference and fading that compounded the problem. These issues badly hurt staff productivity and hampered the agency’s ability to fulfill its mission.

Bandwidth upgrades weren’t available in many of these third world countries, so they tried a leading WAN optimization tool in several remote locations, but saw little benefit. Often, performance became worse.

KOICA decided to abandon the well-known optimization tool after rolling it out at just two sites.

Highlights:

KOICA - South Korean International Cooperation Agency

Location: Seoul, South Korea with offices in Africa, Asia, the Middle East, and Latin America

- KOICA provides development aid through more than 45 offices in struggling third world countries in Africa, Asia, the Middle East and Latin America. At many of these sites, web applications took several minutes to load, and often stalled completely due to poor network conditions.

- KOICA upgraded bandwidth where they could, but upgrades weren’t available in many of the countries they served. They tried a leading WAN optimization tool in several remote locations, but saw little benefit. Often, performance became worse.

- After installing WarpEngine™ at their main office in Korea, KOICA saw massive performance gains across all locations, with more than an 11X improvement at one remote site.

CASE STUDY

Foreign Aid Agency Improves Web Application Performance over 11X at Remote Third World Sites

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**Solution: WarpEngine™ Combined with WarpGateway™ at Selected Sites**

Once KOICA learned about WarpEngine™, they requested an evaluation. WarpEngine™ leverages Badu Networks’ patented technology to deliver improvements of up to 11X or more in performance and throughput by filtering out the impact of jitter, today’s most common cause of network throughput collapse. WarpEngine’s algorithmic approach to network optimization doesn’t rely on deduplication or compression, so it requires no payload access. This enables WarpEngine to accelerate all types of traffic – encrypted, unencrypted or compressed without the performance and maintenance overhead, as well as the security risks of competing dual-ended optimization solutions. WarpEngine is single-ended and can be installed at any point on the network. It requires no changes to clients or servers, and no costly and disruptive bandwidth upgrades. WarpEngine also works in conjunction with existing optimization, SD-WAN, and ADC solutions.

For an added performance boost, many customers like KOICA with branch offices that rely on volatile Wi-Fi networks, implement WarpGateway™ at those locations. WarpGateway filters out the impact of jitter caused by excessive RF interference, fading and other factors that can cause throughput and performance to collapse over the entire network path back to the application server.

For KOICA, WarpEngine’s impressive performance numbers, easy installation, low cost, and the option of adding WarpGateway at select branch offices struggling with volatile Wi-Fi networks, made it an obvious choice.

**Results: Over an 11X Improvement in Performance**

- WarpEngine deployed at headquarters in South Korea improved web application performance across all locations, reducing page load times by over 11X in some cases. Results are shown for Koica’s most challenging sites in the graph below.
  
- Eliminated the security risk of exposing sensitive encryption keys at every location, as well as the maintenance overhead.
  
- WarpGateway at remote branch offices with the most volatile Wi-Fi networks provided an even greater performance boost.

**Resources:**  
About WarpTCP™ Technology  
About WarpEngine™ Appliance  
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