



SOLUTION BRIEF

Keysight Hawkeye:

Continuous Proactive Bandwidth Monitoring for Remote Sites and Users Working from Home

Conducting business from hundreds of remote locations is imperative for today's workforce. Every day, employees use resources located at various cloud providers and on-premise data centers — using the same access link. However, this makes maintaining a consistent, high-quality user experience increasingly difficult. This is because uplink and downlink speeds vary per location, as do service level agreements (SLAs) from internet service providers (ISPs).

With Keysight Hawkeye, network infrastructure teams can finally take back control of user experience. By measuring active bandwidth around the clock, you can track the peaks and troughs of bandwidth availability — and be the first to know if services are not getting enough bandwidth.

Business Case

Without adequate quality of service (QoS), your business applications suffer, especially voice and video applications. But that's only the start. Lost time causes operational inefficiencies, user dissatisfaction, and grinds productivity to a halt — particularly in remote offices where IT support is not readily available.



Key benefits:

- Monitor available bandwidth across your remote sites.
- Challenge service providers on your sites' SLAs.
- Identify network degradations and potential business impact proactively.
- Stay ahead of potential issues with intuitive, easy-to-use dashboards.

Keysight's Solution

Our Hawkeye solution can help you:

- Create specific bandwidth checks for each location, utilizing active network instrumentation with specific uplink and downlink targets to monitor QoS.
- Deploy hardware- or software-based endpoints or agents anywhere in your network.
- Measure bandwidth on automated interval schedules, creating pass / fail thresholds for clear insight into bandwidth availability around the clock.
- Set up alarms and reporting to alert network operations and existing remediation systems.
- Track your historical metrics and trends to identify potential causes of network bandwidth overconsumption — like network changes or services.



Figure 1. Run bandwidth test verifications and assess available bandwidth over time with cosine repartition.

Business Outcomes

Hawkeye's realistic traffic simulation capabilities make it easy to monitor bandwidth between your remote sites and internet destinations proactively. With Keysight, you can maximize network uptime, troubleshoot issues faster, and maintain consistent user experiences by:

- Monitoring bandwidth availability cycles with synthetic traffic injection.
- Staying ahead of potential bandwidth issues by pinpointing problems that your passive monitoring tools would not see.
- Improving your employees' productivity with reliable network access.



Being able to monitor bandwidth availability fluctuations has significantly helped us meet our business needs. Not only have we identified sites in need of upgrades, we've also been able to challenge our service providers' SLA delivery — improving our network reliability and yielding an ROI in just a few weeks.

— Fortune 100 company,
Network Operations
Manager

Learn more at: www.keysight.com

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

