

Using Wireshark & the Observer Platform for Complete Visibility

If you are like the average network professional, Wireshark is probably a part of your regular troubleshooting arsenal. And, why not? It's the tool by which you learned network analysis. Its flexibility in licensing, no-cost download, and familiarity, make it a logical choice to deploy to capture and analyze packets. But, what might your network team be missing, if it depends solely on Wireshark for network monitoring?

We'll look at a two-solution approach that involves using Wireshark with the Observer Platform to:

- Establish complete and effective visibility across an enterprise infrastructure
- Effectively reduce mean time to resolution (MTTR)
- Shift to proactive performance monitoring to ensure optimal user experience

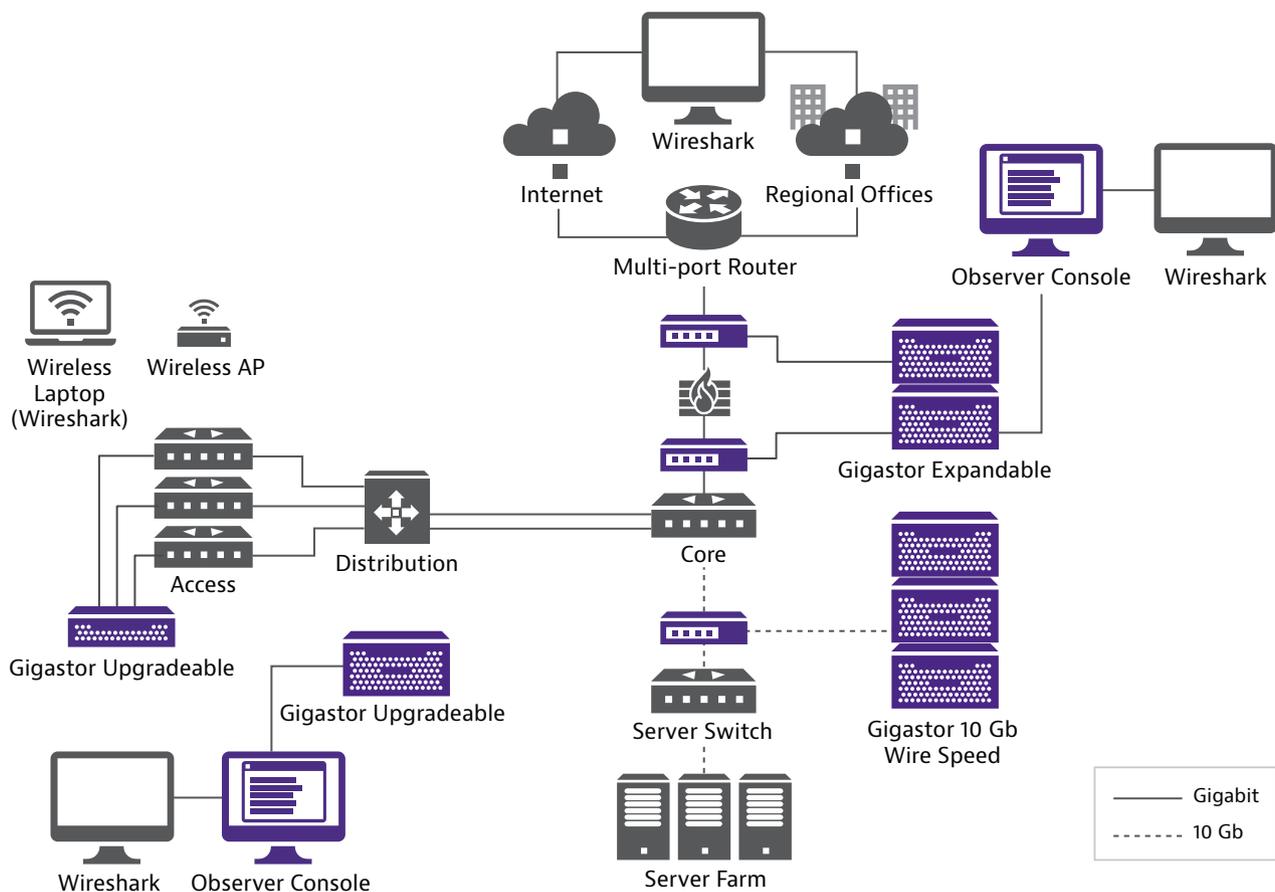
Complete Visibility

Strategically using Wireshark in conjunction with the Observer Platform allows you to achieve maximum visibility and capture all the packets.

Wireshark: Deploy Wireshark at the edge for cost-effective visibility into remote offices or on an ad-hoc basis to user stations. It's no-cost licensing makes it well-suited for these locations.

Observer Analyzer and Observer GigaStor: Monitoring multiple critical applications running on a 10 Gb or 40 Gb link in the core begs the question, "Can a software analyzer handle the load?" Realistically, the answer is no. You could attempt to apply multiple filters to reduce the amount of traffic captured. But, to effectively troubleshoot issues like contention requires all the packets. The best way to ensure availability of applications in the core is through implementing hardware analysis appliances like Observer GigaStor that can handle these speeds. Additionally, GigaStor hardware and software versions are deliberately designed for back-in-time analysis with a time-based interface for easy isolation of events around the minutes, hours, and days of interest. Having captured and retained network traffic that is immediately accessible accessible means quick reconstruction of the user experience and eliminates having to wait for the problem to reoccur.

As the following network diagram illustrates, to achieve comprehensive visibility, the Observer Platform is deployed in the core and Wireshark at the edge.

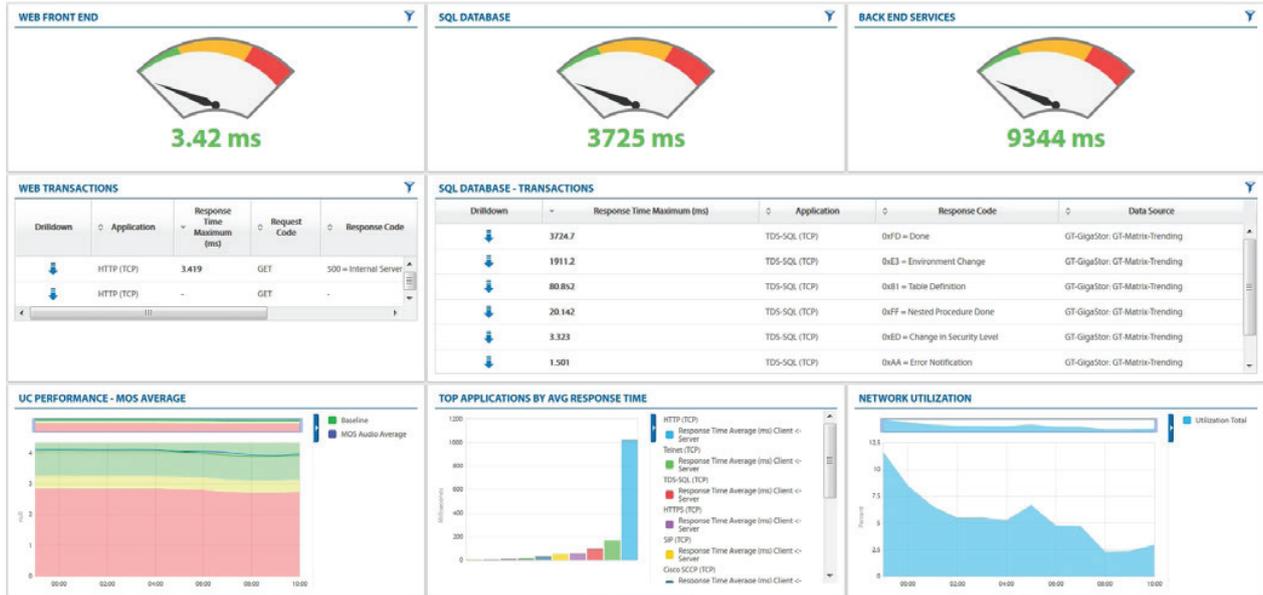


Reducing MTTR

Get to the root cause of the problem quicker by supplementing Wireshark workflows with the aggregated performance views, visualization of performance conditions, and transaction from the Observer Platform.

Wireshark: Being familiar with Wireshark means you're proficient in navigating through the interface. In cases where you prefer to use Wireshark, Analyzer and GigaStor offer easy exporting of capture files to support this.

Observer Apex: Assess the scope and severity of problems in real time with high-level aggregated views, and more appropriately scale your response to the problem. From built-in widgets, you can also get a sense of the underlying causes of poor performance, before beginning the troubleshooting process. For example, you could view the performance of individual application tiers alongside transactions and errors for indications of potential issues and navigate to the likely cause.

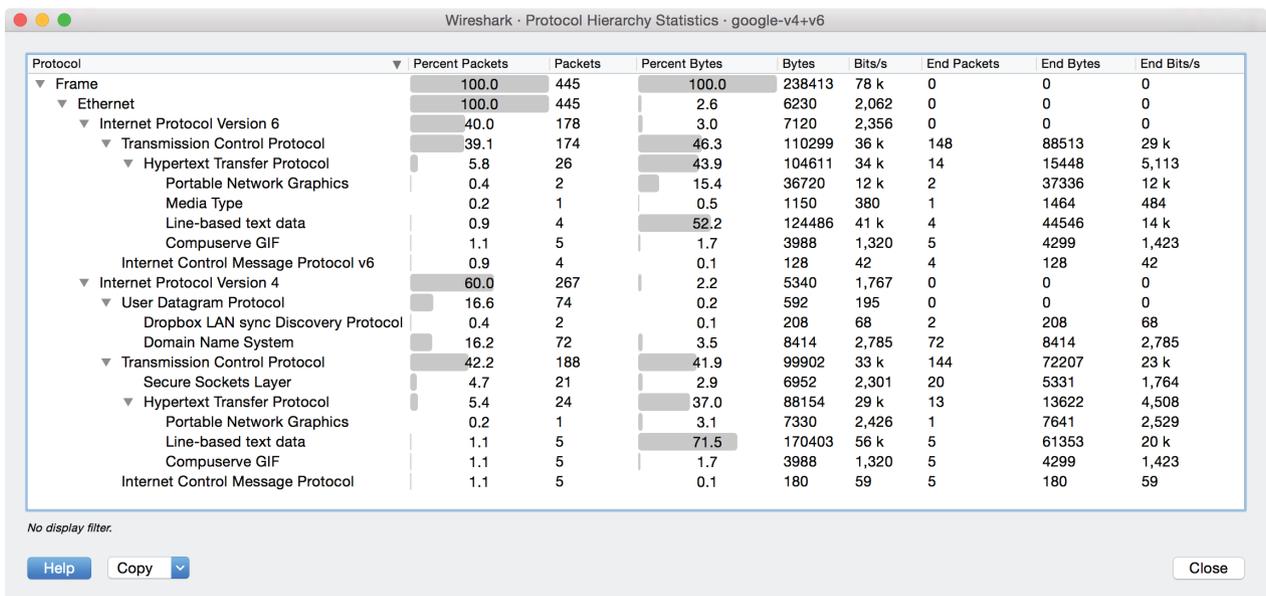


Additionally, Observer Analyzer provides in-depth, transaction-level analysis on a variety of protocols complementing application protocol views in Wireshark, and bolstering your ability to pinpoint what's going wrong within the application.

Proactive Performance Monitoring

Get ahead of problems by using behavior analytics and alerts within Observer Apex to understand the normal behavior of your network and to be notified of degrading performance. Use Wireshark for snapshots of typical traffic patterns at the edge.

Wireshark: Get a sense of typical network utilization and behavior in remote offices by using Wireshark features like the Protocol Hierarchy Statistics Window. Although it's a more manual process, it's great insight.



Observer Platform: Leverage trending in Analyzer or Apex's automated baselining to determine normal performance in the core. Alerts can then be configured to notify your team of performance deviations before it impacts users.

Using this two-solution approach in managing performance provides your network team with the added visibility and insight to cut troubleshooting times, reduce the number of user complaints, and proactively ensure network and application success.

