

SOLUTION BRIEF

Optimizing Digital Experience with Fortinet SD-WAN Underlay and Application Monitoring

Executive Summary

Today's IT teams strive to achieve operational efficiency while simultaneously enhancing the user experience. SD-WAN can help your organization more easily and cost-effectively deliver the quality digital experiences that your users demand. However, to achieve this goal, your IT team needs centralized visibility into performance trends across your entire infrastructure to identify issues.

Centralized, complete visibility is needed to pinpoint issues related to errors with configurations, ISP links, paths, and applications. Without clear insights into underlay performance, troubleshooting is time-consuming and costly. And poor underlay performance can directly impact application responsiveness, leading to frustrated users and reduced productivity.

With the Fortinet SD-WAN Underlay and Application Monitoring Service, your IT team can access accurate and meaningful insights into the most popular SaaS applications and cloud destinations. The service also furnishes comprehensive information about ISP performance networkwide, empowering your IT team to prioritize traffic intelligently. Ultimately, this leads to the best possible user experience.

Fortinet SD-WAN Underlay and Application Monitoring Service

The Fortinet SD-WAN Underlay and Application Monitoring Service provides administrators with a comprehensive suite of features to optimize and monitor application performance, enabling you to optimize digital experience and ensure consistent application performance. The service integrates with FortiManager and FortiAnalyzer to deliver centralized visibility, providing insights into underlay performance trends across your entire network. This includes a dedicated device speed-test service, application performance monitoring (APM), and SD-WAN underlay bandwidth and quality monitoring.

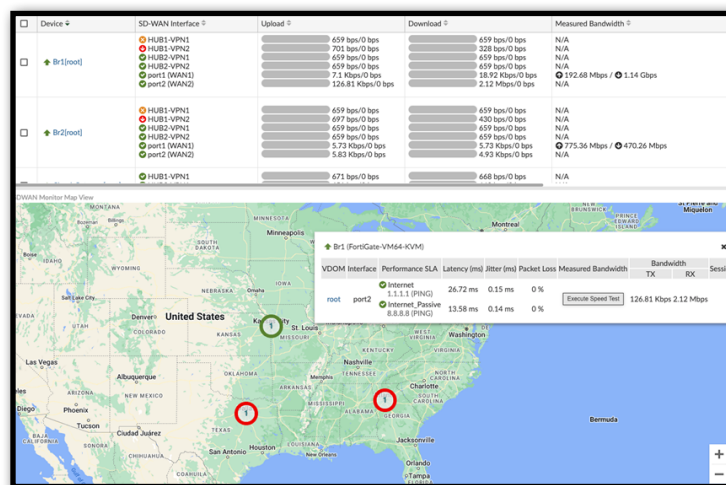
The Fortinet SD-WAN Underlay and Application Monitoring Service empowers your IT team to swiftly prioritize network and application traffic and efficiently address any operational issues that may arise.

Key Features and Benefits

Proactive performance management

- **Device speed testing:** You can continuously monitor the performance of your ISP links with automated speed tests to FortiGuard servers. This can identify potential bottlenecks before they impact your users. Also, the test can be scheduled and executed on-demand per device or groups across the network from FortiManager and charted on a map for easy viewing of performance.

Figure 1: Speed testing for FortiGate devices can be scheduled by date and time.



- FortiGuard performance SLA database:** You can leverage hundreds of preconfigured databases of performance SLAs for popular SaaS and cloud application destinations with recommended SLA thresholds. This allows your organization to easily create service level agreements for ISP link performance. It reduces time spent on setup, curtails the chance of configuration errors, and ensures optimal path selection so you are getting the most out of your applications.

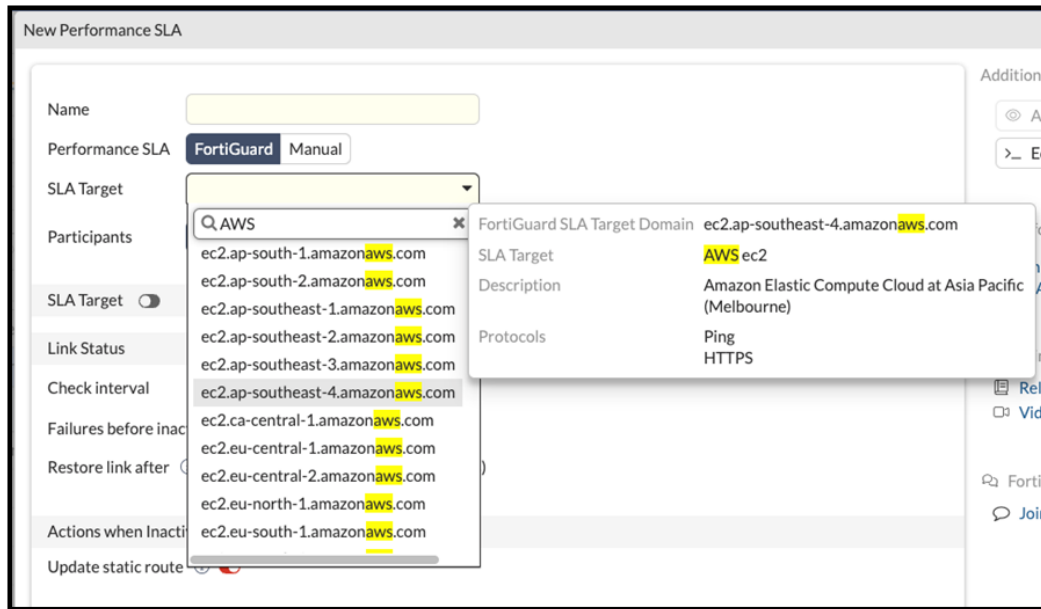


Figure 2: FortiGuard Labs maintains databases of popular SaaS and cloud destinations.

- Application performance monitoring (APM):** Gain deep insights into application performance with passive monitoring of TCP metrics by calculating advanced metrics of your user traffic. APM is designed to measure the user experience from end to end, effectively identifying bottlenecks and troubleshooting issues.

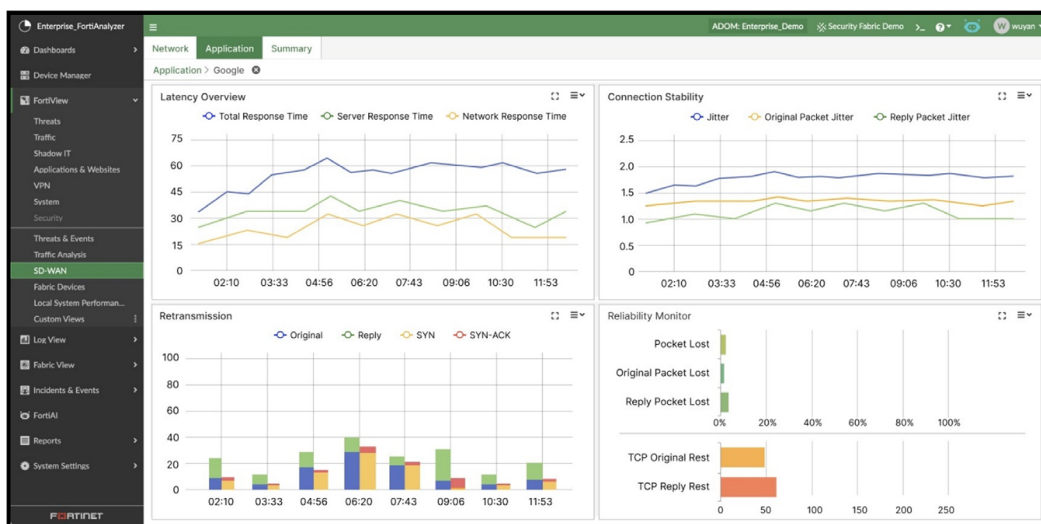


Figure 3: FortiAnalyzer provides a detailed application performance overview that pinpoints where issues may arise.

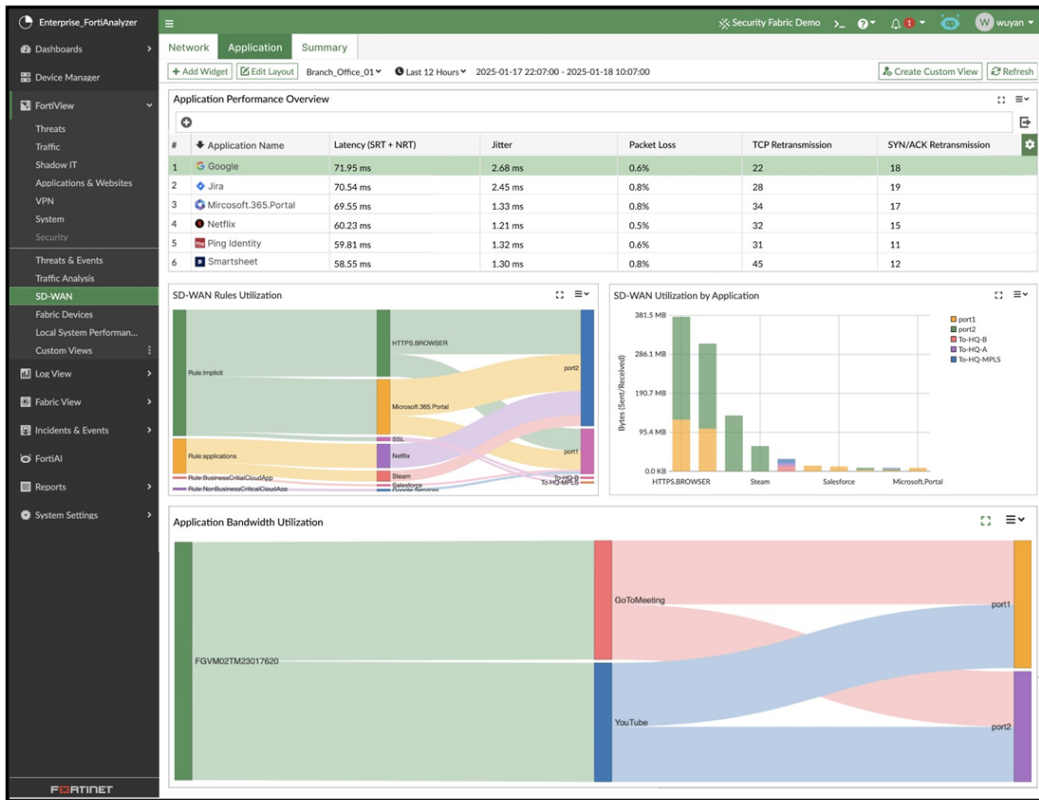


Figure 4: FortiAnalyzer provides an overview of the application's performance.

Simplified deployment and management

- **Guided SD-WAN underlay setup wizard:** Simplify underlay provisioning with a step-by-step wizard based on Fortinet best practices. Without needing trained IT staff, the setup wizard allows you to minimize configuration errors.

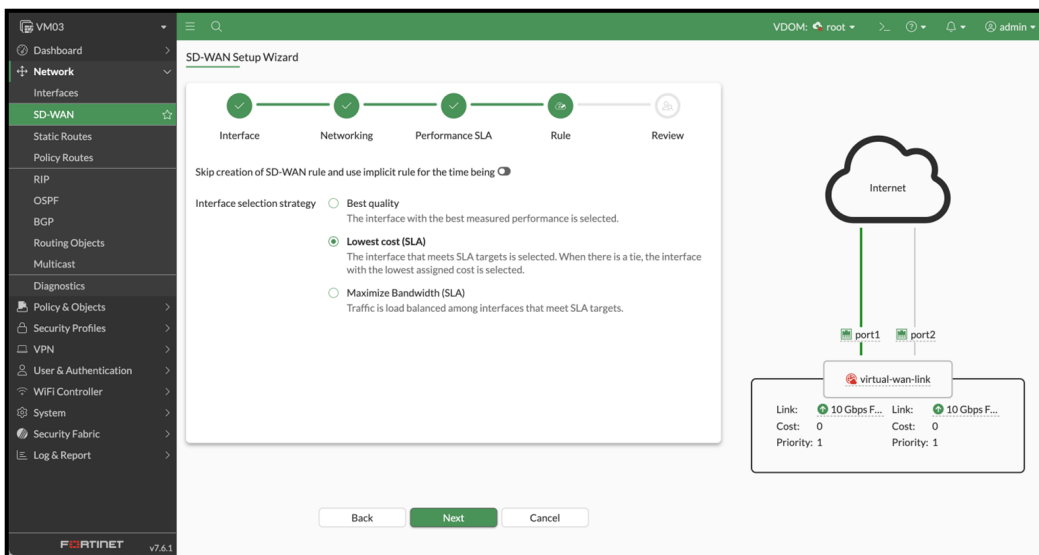


Figure 5: Use the guided setup wizard in FortiOS for easy provisioning.

- **Centralized management:** Manage your entire SD-WAN infrastructure, including underlay monitoring, from a single pane of glass with FortiManager.

Enhanced visibility and control

- **Real-time dashboards and reporting:** You can visualize key underlay and application performance metrics via intuitive dashboards and reports, enabling proactive issue identification and resolution.
- **Granular insights:** By drilling down into specific applications, users, and links, you can pinpoint the root cause of performance issues and optimize network resources.
- **Application performance scoring:** You can employ advanced analytics to measure the complete end-to-end user experience for applications and pinpoint granular problems within the network, reducing time to remediation.

Business Outcomes

By leveraging Fortinet SD-WAN Underlay and Application Monitoring Service, your IT organization can:

- **Simplify network operations:** Streamline troubleshooting, reduce downtime, and optimize your resource allocation with comprehensive underlay visibility.
- **Deliver exceptional digital experiences:** Ensure consistent application performance and user satisfaction, regardless of location or network conditions.
- **Increase IT productivity and experience:** Decrease the time required to pinpoint issues and allow your valuable IT resources to focus on critical business initiatives.

Conclusion

In today's digital-first world, a high-performing underlay network is essential for delivering optimal digital experiences. The Fortinet SD-WAN Underlay and Application Monitoring Service provides the visibility, control, and automation you need to optimize your underlay network and ensure seamless application performance and user satisfaction.



www.fortinet.com