

Shunra NetworkCatcher™

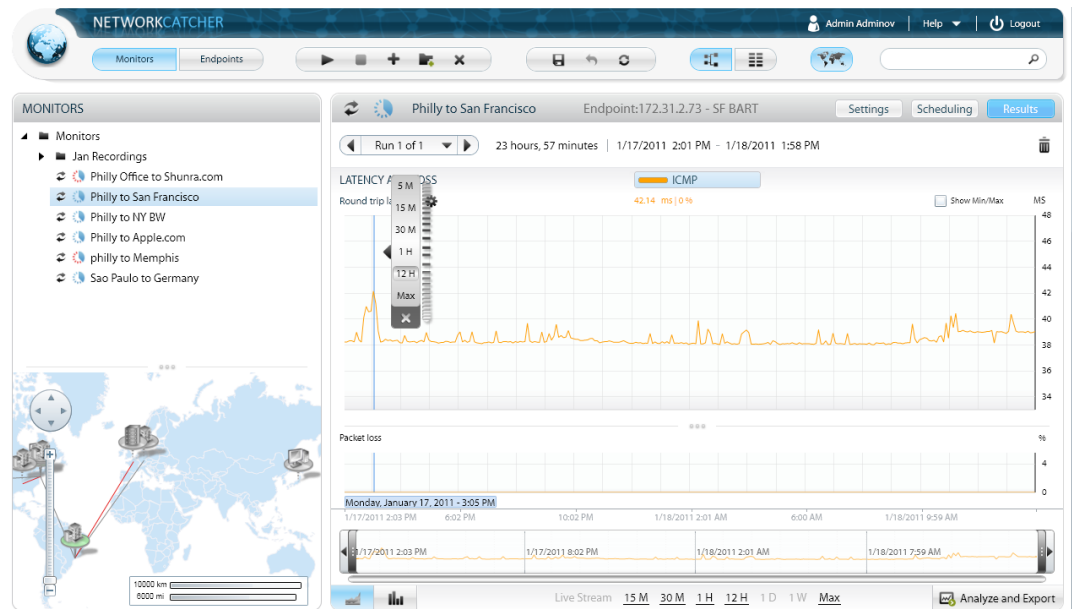
Capture Real-World Network Impairments Including Latency, Packet Loss and Bandwidth

About Shunra

When deploying applications across WAN, Web, Mobile or Cloud-based networks, risk mitigation and cost avoidance are paramount. Today, 80% of the costs associated with application development occur in remediating failed or underperforming applications after deployment, when the ineffective application has already had a negative impact on the end user or customer experience.

Shunra offers a proactive approach to application performance engineering (APE). The Shunra solution discovers, emulates, predicts and analyzes the performance of applications over real-world networks. As a result, Shunra delivers customized performance insight, enabling pre-production remediation and optimization, and confidence in application performance prior to deployment.

Shunra is the industry-recognized authority in Application Performance Engineering (APE), offering over a decade of experience with some of the most complex and sophisticated networks in the world.



It is often difficult to know and precisely emulate network behavior in a pre-production test environment due to the constantly changing nature of a production network. Shunra NetworkCatcher is a highly flexible and powerful network monitor that enables organizations to easily and accurately record, import and replay real-world network behavior, including conditions such as latency, packet loss and available bandwidth.

NetworkCatcher enables unsurpassed precision in recreating production network conditions in a pre-deployment test lab. With Shunra PerformanceSuite™ and NetworkCatcher powering the application test environment, organizations are able to test applications under the most accurate and true-to-life conditions possible.

Automated Recording and Playback of WAN, Web, Mobile and Cloud Networks

NetworkCatcher enables scheduled recording and automated analysis of network behavior, including the ability to quickly identify best-case, worst-case and average network performance. Using a flexible set of network communication protocols, NetworkCatcher captures network behavior and provides insight into how the

network responds to ICMP, UDP, HTTP and TCP communications. Network characteristics are easily gathered and analyzed by Network Catcher for use in Shunra Performance Suite, enabling a precise emulation of production network conditions in your test lab. To facilitate rapid testing of mobile applications, NetworkCatcher also features a searchable library of global mobile and broadband network profiles, enabling organizations to quickly test applications against typical network conditions between major cities.

Automated Playback of Network Behavior

Record and playback network behavior of links across the entire production network

- Record, store, analyze and playback link conditions
- Actively monitor the behavior of multiple links 24x7
- Replay production network conditions in the development/test environment
- Enable recorded network statistics at set intervals to playback from a central repository
- Seamlessly import production network conditions into the Shunra test environment
- Safe and secure: does not detect or store network traffic



WAN. Web. Mobile. Cloud.
Confidence in Application Performance™

About Application Performance Engineering (APE)

APE is the discipline applied at every phase of the application lifecycle that ensures an application will be designed, implemented and operationally supported to meet its non-functional performance requirements. APE includes the roles, skills, activities, practices and solutions required to confidently deploy and manage application performance.

APE — Best Practices

- **Discovery:** identify and record real-world infrastructure and network conditions, business processes, application topology and deployment scenarios
- **Test Set-Up:** incorporate network behavior, network emulation and business process automation scripts into the test environment
- **Testing:** integrate with automation tools and enable single-user and multi-site/multi-user load testing
- **Analysis:** conduct thorough results analysis to identify potential bottlenecks and validate performance and SLO compliance
- **Remediation and Optimization:** implement recommended best practices to improve performance and calculate performance ROI

The image shows two overlapping windows from the Shunra NetworkCatcher application. The background window is titled 'Performance Statistics' and displays a table for 'Bandwidth - Unidirectional Estimate - Availability' and another for 'Latency - Round Trip'. The foreground window is titled 'New Mobile Profile' and allows users to configure test scenarios between 'Here' and 'There' locations, selecting internet access methods (3G, Wi-Fi), devices (Any Mobile, iPhone, Android), and bandwidth/latency conditions (Best, Typical, Worst) with an emulation time of 1M.

Direction	95th Percentile	Mean
Upstream	117.15	82.71
Downstream Estimation	117.15	82.71

Metric - method	5th Percentile	Mean	95th Percentile
ICMP - Latency - Round Trip	42	44.72	48
TCP (Peerless) - Latency - Round Trip	43	47.04	49

Why NetworkCatcher?

- Record network conditions between end users and the datacenter for accurate performance testing, and conduct the most accurate scalability testing possible
- Record conditions to and from multiple locations simultaneously for WAN, Web, Mobile and Cloud
- Pre-recorded library of global mobile and broadband network profiles enables rapid testing of mobile applications
- Identify best-case, worst-case and average performance values within a given period of time
- Built-in bandwidth availability measurements: unidirectional estimate, bi-directional estimate and bi-directional sample
- Measure the latency between two locations using a TCP Handshake

Contact Us

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Key Features

- Pre-recorded network profiles for emulating typical mobile and broadband network conditions between major global cities
- Measure and record real network conditions for any reachable location using ICMP, TCP or UDP
- Go anywhere agent can be deployed securely to remote machines without the need to open multiple firewall ports
- Schedule and record up to 100 different monitors simultaneously for up to 30 days and store recordings indefinitely
- Easily find network conditions within a specific time period using a graphical zoom bar
- Export network conditions for replay in test environment
- Support for 32- and 64-bit Windows Server 2008 and 2003 OS
- Built-in MySQL database stores thousands of network profiles