



Shunra vCat

Know exactly how your applications will perform on the network before deployment!

vCat is a Windows-based client/server WAN emulation software solution that enables you, and each member of your team, to test applications under a variety of current and potential network conditions – directly from your desktop. Shunra vCat will transform your LAN-based testing environment to include real-world WAN emulation of the production environment so you can accurately test and optimize application performance for remote end users.

This transformation from LAN to WAN is a proven, necessary step for quality assurance of applications that are required to perform over live networks. The earlier testing is performed over a WAN, the easier it is to address design and implementation problems such as chatty applications, latency sensitive transactions, caching inefficiencies, and other network performance conditions.

"We used Shunra's solution for wide area network emulation during development and quality testing of Adobe® Flash® Media® Server 3.5. vCat provides an accurate, real-world network model with the ability to emulate bandwidth, packet loss and latency, which is essential for us to meet our rigorous Quality of Service goals. Accommodating a dynamic network with streaming services is complex, and Shunra helped us fine tune the logic and the behavior of the algorithm for conditions that we could not otherwise test."

Srinivas Manapragada,
Senior Engineering Manager, Adobe

Key Features

The latest version of vCat includes customer-requested capabilities that expand technology ease-of-use. The newly enhanced solution provides more reporting tools, enhanced analysis capabilities and the ability to rollout networked applications effectively. Enhancements include time-saving capabilities such as:

- **Automatic delivery of post-test analysis** - improving time to analysis and accelerating performance optimization
- **Upgraded GUI** - including vCat Analytics integration for overall user experience
- **Optimized performance** – significantly decreasing the "footprint" through reduced RAM and CPU utilization
- **New API interface** – Supporting COM, CLI and C/C++ dll APIs

Accelerating Software Development Testing

Testing networked software and services is essential to ensure Quality of Experience (QoE) and performance of software that is required to operate over a WAN. Using Shunra vCat earlier within the development lifecycle will make it easier to address design and implementation problems before production rollout. This approach is proven to save time, reduce overall product release spend and ultimately provide a better experience for end-users.

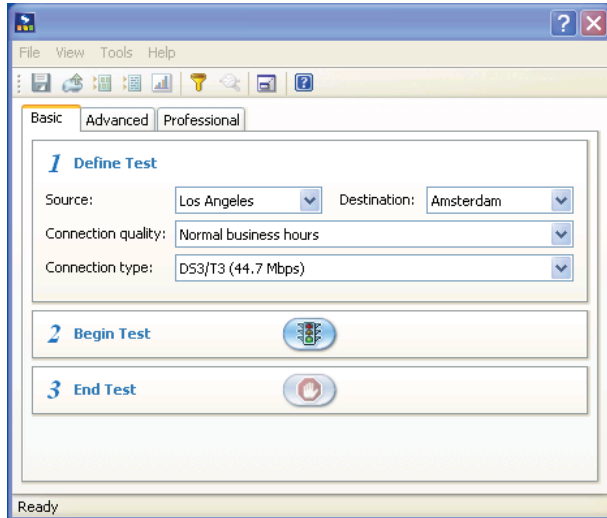
Shunra vCat allows users to select network scenarios – without requiring networking knowledge! It comes pre-configured with a library of typical network topologies to click and use. You can also create your own network topologies to test or share with your peers.

“What VMware does for the data center, Shunra vCat does for the production network.”

Scott Moore, President - Loadtester Inc.

Optimal User Experience and Ease-of-Use

Shunra vCat enables test scenarios to be shared by users and managed from a central location. Each Shunra vCat client simulates a wide area network link so that you, and each member of your team, can test applications under a variety of current and potential network conditions – directly from your desktop.



Easily Configure Your Performance Tests

With this insight, you can proactively predict real-life application performance over the network, find and fix problems, determine capacity requirements, and much more – all throughout the development lifecycle. Shunra vCat is ideal for development, testing and networking teams, as well as anyone who needs to quickly understand whether their code or application is ready for the network and remote end-users!

Shunra vCat is extremely easy to use, and seamlessly integrates into your existing work environment. Shunra vCat provides multiple ways to quickly and easily select network scenarios and start testing – putting you on the fast path to confidence in application performance.

Application Efficiency Report
What can I learn from this report?

Overall Metrics					
App Turns (Chattiness)	Max Concurrent Connections	Traffic details		Total Packets	Protocol Overhead [%]
Total KB	KB per App Turn				
32	4	3711.76	115.99	3788	4.08

Transaction breakdown		
Sub-Transaction	Average Response Time [sec]	Instances
GET 10.0.0.2/strip3.jpg	0.52	4
GET 10.0.0.2/mystyles.css	0.42	4
GET 10.0.0.2/about/kite_jump.jpg	1.24	4
GET 10.0.0.2/	0.81	2

HTTP and TCP					
Frame	Port A2	Port B3	Time	Delta	
1	10.0.0.93:39979	10.0.0.2:80	15:27:53.915		
2	10.0.0.93:39980	10.0.0.2:80	15:27:53.915	0:0:0.0	
3	10.0.0.93:39979	10.0.0.2:80	15:27:54.170	0:0:0.255	

Application Efficiency Report - Provides application turns for each transaction and a protocol bounce diagram

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Visit www.shunra.com and request to be contacted. Or contact Shunra directly at **1.877.474.8672** or **1.215.564.4046** (worldwide offices listed below).



Application Performance Engineering

Call your Local office TODAY to find out more!



North America, Headquarters
1800 J.F. Kennedy Blvd. Ste 601
Philadelphia, PA USA
Tel: 215 564 4046
Toll Free: 1 877 474 8672
Fax: 215 564 4047
info@shunra.com

Israel Office
6B Hanagar Street
Neve Neeman B Hod Hasharon
45240, Israel
Tel: +972 9 764 3743
Fax: +972 9 764 3754
info@shunra.com

European Office
73 Watling Street
London
EC4M 9BJ
Tel: +44 207 153 9835
Fax: +44 207 285 6816
saleseurope@shunra.com

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