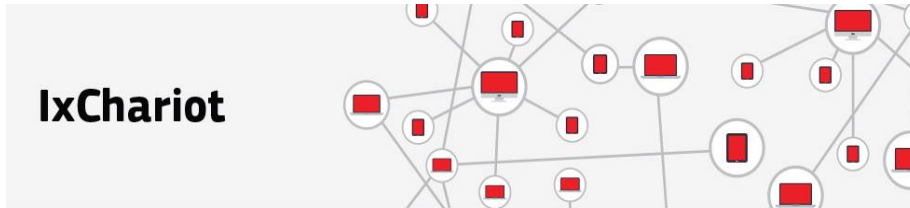# IxChariot® 8.1

## Validate Pre-Deployment and Live Networks and Applications

IxChariot 8.1 is a new version of the industry's leading test tool for simulating real-world applications to predict device, system, and network performance under realistic load conditions. Comprised of the IxChariot Server and Performance Endpoints, the IxChariot product family features a new web interface accessible from most platforms that support HTML5-aware browsers.

The product is suitable for enterprise teams looking to simulate various protocols and applications in a distributed network across thousands of endpoints.

IxChariot provides the ability to confidently assess the performance characteristics of any application running on wired and wireless networks.

Key Features

- **New HTML5-based web interface** – zero client installation; browser-based

- **AppLibrary support** – more than 100 popular TCP-based apps

- **100% software endpoints** – runs on several O/S; deploy on-premises or in the cloud

- Measures **throughput, jitter, packet loss, end-to-end delay** – per-user metrics

- Create sophisticated traffic patterns – for **TCP, UDP, and RTP over IPv4 and IPv6**

- **Voice quality (MOS)** – for true voice over IP calls end-to-end

- **Multi-user system** – create and run tests simultaneously

- **Manage test resources** – built-in resource manager to re-use test scripts

- **IxChariot Server is available as an open virtual appliance** (OVA) – for simple deployment to VMware ESXi 5.x or VMware Player 6.x, Fusion 6.x, and Workstation 10
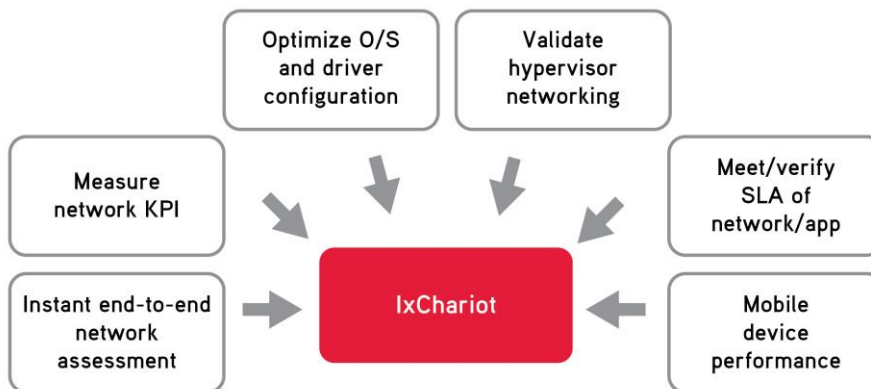
IxChariot 8.1 Key Benefits

- Designed for IT teams – Leading pre-deployment assessment tool; access and run tests; multi-user out of box

- Assess your network with realistic apps – Create realistic applications to validate network performance

- Verify SLA for networks – Instant end-to-end assessment

- Measure device performance over Wi-Fi and understand performance of access points under load

- Validate hypervisor performance – 100% software endpoints can be deployed anywhere

IxChariot 8.1 Quick Feature Overview

Securely Access and Run Tests from Any Browser

- Web-based platform, uses HTLM5 for access from any modern browser; multi-user access
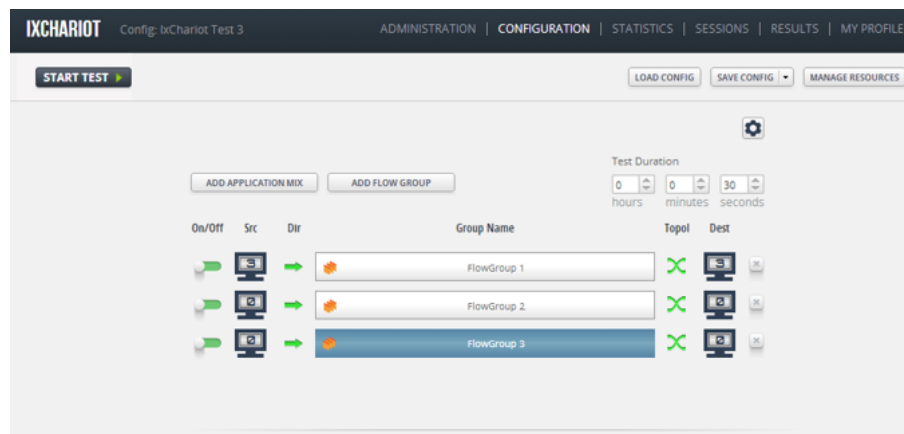
Application Emulation

- Configure mixes of applications based on number of users or based on generated throughput

- Ready to run popular applications (~100) – see detailed list later in this datasheet

Voice over IP Call Emulation and Quality Assessment

- Create real bi-directional peer-to-peer call flows across the network
- Select from codec G711, G729, AMR codec, and others
- Assess true voice quality with MOS, R-value, and impact of delay, jitter, and packet loss on calls flows
- Scale to hundreds of real-time conversations without effort

Interactive Real-Time Statistics

- Inject real traffic into the network to measure the impact of new applications
- View test results in real-time; measure all critical network metrics including up/down bitrate, loss, jitter, delay

100% Software Performance Endpoints

- 100% software Performance Endpoints run on any hypervisor that supports Linux or Windows guest O/S

- Validate the performance of VM-to-VM traffic; throughput, latency, and loss for a various TCP and UDP apps

- Create ad-hoc traffic topologies between different servers in the VM infrastructure
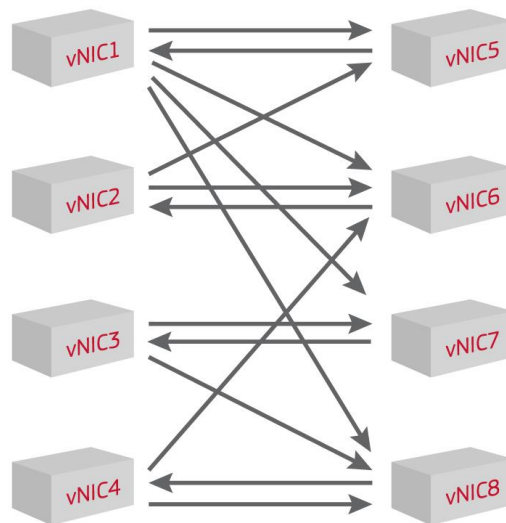
Detailed Product Specifications

Specifications	
Scalability	Supports up to 100,000 connections (endpoint pairs) representing hundreds of thousands of end-users
Protocols	TCP, UDP, RTP, IPv4, IPv6
System Requirements (Server)	• OVA deployment: VMware ESXi 5.x or newer, VMWare Player 6.x or newer • Minimal VM provisioning: 1Gb RAM, 1 VCPU • Support for multiple simultaneous tests and user sessions
Performance Endpoints	• Requires IxChariot 8.1 version of performance endpoints – not compatible with older endpoint versions • Microsoft Windows: 2008 R2, 2012, 7, 8 • Linux (x86, x86_64) • Other endpoint platforms are coming out soon

Simulated Applications	• AOL Instant Messenger • AOL Webmail • Bandwidth HTTP • Bandwidth Raw • BitTorrent Cisco EMIX • BitTorrent Enterprise • BitTorrent File Download • BitTorrent RMIX 5M • BitTorrent Service Provider • Facebook • Facebook Android • Facebook Android Chat Session • HTTPS Simulated Financial • IMAPv4-Advanced Financial • POP3-Advanced Financial • SMB Client File Download Financial • SMBv2 Auth Session Financial • SMBv2 File Download Financial • SMTP Email Financial • Flash Enterprise • FTP Small download • FTP Active mode • FTP Cisco EMIX • FTP Enterprise • Gnutella • Google Mail • Google Play LTE Mix • Google Play Search View and Download • Google Search • Google GTalk Chat • HTTP Audio • HTTP Cisco EMIX • HTTP Compressed • HTTP Enterprise	• HTTP Flash Video • HTTP Flash Video Service Provider • HTTP GET - Android42 to Apache Server • HTTP GET - BlackBerry10 to Apache Server • HTTP GET - Chrome25 (Windows 7) to Apache Server • HTTP GET - Firefox19 (Windows 7) to Apache Server • HTTP GET - IE9 (Windows 7) to Apache Server • HTTP GET - Opera11 (Linux) to Apache Server • HTTP GET - Opera12 (OS X) to Apache Server • HTTP GET - Safari6 (OS X) to Apache Server • HTTP LTE Mix • HTTP Mobile Europe • HTTP Mobile North America • HTTP RMIX 30K • HTTP RMIX 130K • HTTP RMIX 25K • HTTP Service Provider • HTTP Text • HTTP Video • HTTP Video Enterprise • HTTPS LTE Mix • HTTPS Simulated • HTTPS Simulated Enterprise • HTTPS Simulated Service Provider • ICQ • IMAP Cisco EMIX • IMAP LTE Mix • IMAP RMIX 4K	• IMAP RMIX 16K • IMAP RMIX 90K • iTunes Desktop App Store • Jabber Chat • MS-SQL Server • MySQL Database Update • Netflix Service Provider • Oracle Database • Oracle Enterprise • Outlook Web Access • Pandora LTE Mix • Pandora • POP3 LTE Mix • POP3 RMIX 4K • POP3 RMIX 16K • POP3 RMIX 90K • PostgreSQL • Raw Enterprise • Raw LTE mix • Raw Service Provider • Raw Wireless • RTMP • SMB Client File Download • SMB Enterprise • SMTP Cisco EMIX • SMTP Email • SMTP Enterprise • SMTP RMIX 4K • SMTP RMIX 16K • SMTP RMIX 90K • SSH • Twitter Json • Webex • Windows Live (MSN) Messenger v15 • Yahoo IM Chat v10 • Yahoo Mail • YouTube Enterprise • YouTube LTE Mix • YouTube Service Provider

Product Ordering Information*

License Bundles

920-0056	IxChariot Software, Floating Bundle 50; includes Floating License Server for 50 pairs/virtual users and single user console seat license
920-0057	IxChariot Software, Floating Bundle 200; includes Floating License Server for 200 pairs/virtual users and single user console seat license
920-0058	IxChariot Software, Floating Bundle 500; includes Floating License Server for 500 pairs/virtual users and single user console seat license
920-0059	IxChariot Software, Floating Bundle 1250; includes Floating License Server for 1250 pairs/virtual users and single user console seat license
920-0060	IxChariot Software, Floating Bundle 2500; includes Floating License Server for 2500 pairs/virtual users and single user console seat license
920-0061	IxChariot Software, Floating Bundle 5000; includes Floating License Server for 5000 pairs/virtual users and single user console seat license
920-0021	IxChariot Console Seat for License Server, five concurrent users
920-0043	IxChariot Optional Software, AppLibrary support for single user; REQUIRES previous or adjunct purchase of Console Seat licenses
920-0044	IxChariot Optional Software, AppLibrary support for 5 users; REQUIRES previous or adjunct purchase of Console Seat licenses

*Most popular options shown – see current price list for more information