

Fluke Networks Optiview XG Specs

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Datasheet: **OptiView XG Network Analysis Tablet - Version 10 Software Release**

A dedicated tablet for automated network and application analysis, OptiView[®] XG is the network engineer's fastest way to see root cause. With the enhancements featured in this latest release, Fluke Networks has made solving network and application performance problems even faster.

"OptiView XG allows us to quickly identify key switch anomalies, use packet capture features for troubleshooting performance issues, and conduct wireless analysis, all through the same portable unit. This tool truly does have the potential to save our team a great deal of troubleshooting and network audit time."

- **Jeffrey Irving**, Telecoms Perimeter Security Manager at EDF Energy



Whether it's service provider SLAs on WAN/Internet links or new infrastructure equipment in your data center – how do you know you're getting what you paid for? From end-to-end, how do you quickly identify where the bottleneck is when performance problems occur? With version 10, Fluke Networks expands the analysis capabilities of the OptiView XG with the new Network Performance Testing function that measures end-to-end network performance in terms of bandwidth, latency, jitter, loss and availability up to 10 Gbps. When combined with XG's Graphical Path Analysis, you'll not only know IF there are problems in your network, but identify exactly WHERE they are. Also, with the new iOS mobile app for OptiView v10, HeadsUp™ XG, you get instant problem notification right in the palm of your hand, giving you instant access to critical information about issues on your network, speeding response time to urgent problems.

Gold customers can upgrade to version 10 free of charge by logging into their Gold "my account" on www.flukenetworks.com.

Version 10 Highlights:

- Network Performance Testing – Test service provider SLAs, troubleshoot network bottlenecks, validate new architectures, and assess networks for new technology or application deployments
- Measure end-to-end network performance in terms of bandwidth, latency, jitter, loss and availability up to 10 Gbps
- Class-of-Service testing and multiple test streams (up to 8 simultaneous) ensure availability and performance of QoS throughout your network, and whether carrier links are supporting QoS
- Compliant with ITU (International Telecommunications Union) ITU-T Y.1564 standard for performance testing
- Find network bottlenecks - Performance Testing combined with Graphical Path Analysis not only shows you problems getting traffic across your network, but shows you exactly where the problems are
- Stay connected and informed with the new Apple iOS app, HeadsUp XG – get problem notifications and explore XG's Problem Log from your iPhone or iPad

The Tablet for Network Engineers

Network Performance Testing

The OptiView XG Network Analysis Tablet is the fastest way to find the root cause of network problems. The new Network Performance Test feature (NPT, available in OptiView XG version 10) allows users to test and troubleshoot high performance links across wide area networks, campuses, or within data centers and sites. Engineers managing enterprise or service provider networks now have a single tool for measuring performance and troubleshooting complex network and application problems. NPT quantifies the performance of the network in terms of bandwidth, latency, jitter and loss up to line-rate 10 Gbps, giving engineers solid data about the capabilities of their infrastructure and its ability to support current and future applications.

Using a second XG as a peer endpoint, NPT can simultaneously send multiple streams of traffic bi-directionally, ensuring complete testing of asymmetric paths – revealing problems that may exist in one direction, but not another. Alternatively, a number of remote reflector options provide for symmetric (roundtrip) testing. The LinkRunnerAT-2000, or LinkRunner Pro or Duo with Reflector Option, provide an economic means of instrumenting your network for on-demand testing and troubleshooting.

Network Validation																
10M Background Traffic Performance Test Results																
Overall Status	Throughput (Mbps)			Frame Loss		Latency (ms)				Jitter (ms)				Avail %	Unavail Seconds	
	Min	Avg	Max	Count	Ratio	Min	Avg	Max	%	Min	Avg	Max	%			
Overall Results	9.54	9.58	9.62	18254	0.01003	12	18	24	100	0	0.75	17.93	100	100	0	
02/20 2:29 PM	9.56	9.58	9.6	1224	0.01009	13	18	23	100	<0.01	0.75	15.38	100	100	0	
02/20 2:28 PM	9.56	9.58	9.6	1190	0.00981	13	18	23	100	<0.01	0.75	15.6	100	100	0	
02/20 2:27 PM	9.55	9.57	9.61	1224	0.01009	12	18	23	100	<0.01	0.75	16.15	100	100	0	
02/20 2:26 PM	9.54	9.58	9.62	1204	0.00992	13	18	23	100	0	0.75	15.18	100	100	0	
02/20 2:25 PM	9.54	9.58	9.59	1267	0.01044	12	18	24	100	0	0.75	15.01	100	100	0	
02/20 2:24 PM	9.54	9.57	9.6	1260	0.01038	13	18	23	100	<0.01	0.75	17.93	100	100	0	
02/20 2:23 PM	9.56	9.58	9.6	1219	0.01004	13	18	23	100	<0.01	0.75	15.46	100	100	0	
02/20 2:22 PM	9.54	9.58	9.6	1216	0.01002	13	18	23	100	<0.01	0.75	14.99	100	100	0	
02/20 2:21 PM	9.54	9.58	9.61	1188	0.00979	13	18	23	100	<0.01	0.75	16.21	100	100	0	
02/20 2:20 PM	9.55	9.58	9.59	1213	0.00999	13	18	23	100	0	0.75	16.51	100	100	0	
02/20 2:19 PM	9.54	9.58	9.59	1217	0.01003	13	18	23	100	0	0.75	16.42	100	100	0	

Detailed Results with Clear Pass/Fail Indicators

Service providers can use OptiView XG to validate layer 2 services and provide "value added" support of customer enterprise networks, from troubleshooting application performance problems to conducting network assessments and new technology rollouts, such as VoIP and video.

Enterprises Can Use XG's Network Performance Testing To:

- Independently determine if their service providers are meeting agreed upon service levels (SLAs)
- Validate the performance of new infrastructure elements and critical links within their data center
- Troubleshoot network and application performance problems
- Assess network performance prior to deployment of new services such as video or VoIP

The screenshot shows a 'Service Level Agreement' configuration window. It is divided into two main sections: 'Upstream' (indicated by a right-pointing arrow) and 'Downstream' (indicated by a left-pointing arrow). Each section contains several configuration items:

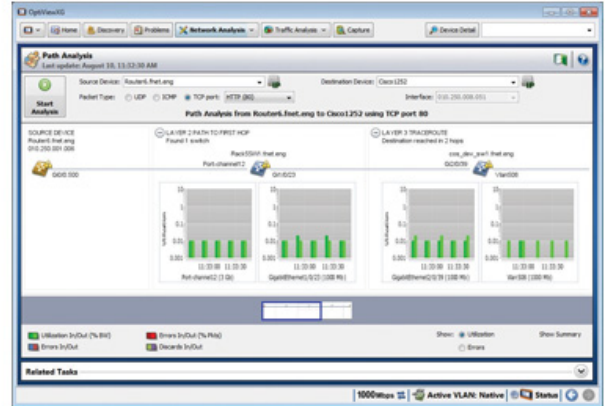
- Committed utilized line rate:** Set to 10 Mbps for both directions.
- Excess utilized line rate:** Set to '(no EIR test)' for both directions.
- Committed information rate:** Set to 9.676 Mbps for both directions.
- Excess information rate:** Set to '(no EIR test)' for both directions.
- Committed burst size:** Set to '(no burst test)' for both directions.
- Excess burst size:** Set to '(no burst test)' for both directions.

At the bottom, there is a checkbox labeled 'Use the same values for upstream and downstream' which is currently checked.

Test and validate SLAs

Path Analysis Testing Pinpoints Network Failure Points

While other tools can send traffic over the network, and may tell you there is a problem, only OptiView XG can test for problems AND show you the location of the issue! Graphical Path Analysis shows the complete layer 2 and layer 3 paths across your network, displaying the performance of switches and routers along the path of the data flows in real time – while NPT tests are underway! -- allowing you to instantly see overloaded or erred interfaces, discarded packets, CPU and memory utilization issues, or even devices rebooting. This allows instant diagnosis of bottlenecks along the data path for quick resolution.



Graphical Path Analysis Pinpoints Network Bottlenecks During Performance Tests.

Validate Data Center Performance with Full-Duplex Testing at 10 Gbps

By pairing two OptiView XG's together, you can fully test 10Gig links with independent upstream/downstream flow rates, up to full line-rate 10 Gbps. The independent management port allows complete control without impacting tests. You've invested a great deal in high performance hardware – ensure that you are getting the results you expected!



Validate 10 Gig Data Center Infrastructure

Problem Alerting and Notification – HeadsUp™ XG Mobile App for OptiView

With HeadsUp XG, a new mobile app for Apple iOS (available free via the Apple iStore), you get real-time notifications from your OptiView XG tablet(s). Instant notification means you're always "in touch" with your network, and seeing critical problems even before users start calling the help desk – right from the palm of your hand!

Use the app to browse your OptiView XG units, and drill down into problems on the Problem Log. The affected devices and specific problems are reported, along with the severity of the problem (Error, Warning, Info) and time detected. Problems that have been resolved are also indicated, and the time the resolution was detected. The app also includes a detailed Help file, or onboard "expert", providing background information about the type of problem, how it can be caused and what can be done to resolve it. Having visibility of problems from wherever you are means faster response when problems occur, and helps you decide whether the particular problem is a "red alert" or something that can wait, helping you to manage your time more effectively. Multiple users can use HeadsUp XG to access and get notifications from your XG(s).

You can "clear" problems on the XG remotely from your iPhone or iPad, and through HeadsUp XG's synchronization capability, the problems are cleared on the XG simultaneously, and vice versa – problems cleared on the XG are automatically cleared on your handheld device.



HeadsUp XG App for iOS