Datasheet: Best in class Application Aware Network Performance Management (AANMP)

Unpublished

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Fluke Networks AANPM

Flexible
- Wired/Wireless
- Fixed/Portable
- 1/10 Gbps
- Layer 1-7

Intelligent
- Self-learning Baselines
- Time correlated views
- Path Analysis and Visualization
- Automated Configuration

Complete
- End-to-end Visibility
- Monitor and Troubleshoot
- Packet, NetFlow, and SNMP
- Correlated Dashboard View Across Multiple Data Source
- Stream To Disk packet capture

Actionable Visibility - From End to End

Business critical applications and services are in a constant state of change. Whether expanding to support new users and features, migrating to cut IT costs, or evolving to support BYOD, these systems put an increasing strain on the network and server infrastructure. This can cause IT organizations to scramble to stay ahead of costly performance problems and downtime.

The difficulty in monitoring these applications and services is compounded by the fact that most IT departments are comprised of teams that focus on specific areas of responsibility. Network Engineers, Server and Application Engineers, Wireless and WAN Engineers, and Voice and Video Specialists all tend to focus on their particular domain, using individual tools to monitor and troubleshoot their particular silo. At one time in the world of IT, this approach to network and application monitoring was enough to stay on top of the performance problems that hit the system.

Times have changed

Tackling the issues facing applications today requires a holistic, cross-functional, end-to-end visibility platform, giving individual IT teams the data and detail they need to isolate and resolve problems quickly. Downtime and slow performance incur tremendous costs to the business, and resolving or preventing these problems is a top priority of the IT organization. It is no longer enough to say “It’s not the network” or “My servers are fine” through the lens of a focused tool. IT teams need to work together with correlated data to avoid the War Room and root out issues before they impact the business. The Fluke Networks approach to Application Aware Network Performance Management (AANPM) leaves no visibility stone unturned, providing Network and Application Engineers the data they need to resolve problems as soon as, if not before, they strike.

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<table>
<thead>
<tr>
<th>Downtime Costs*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average cost of data center downtime per minute: $5,600</td>
</tr>
<tr>
<td>Average reported downtime: 90 minutes</td>
</tr>
<tr>
<td>Average reported cost per incident: $505,000</td>
</tr>
<tr>
<td>Percent without tools they need for quick, accurate problem resolution: 55%</td>
</tr>
<tr>
<td>Percent who say non-collaborative results and finger pointing slow troubleshooting: 70%</td>
</tr>
</tbody>
</table>

*Ponemon Institute, 2011, **Fluke Networks Market Research

1 of 7
Holistic Enterprise Monitoring
Performance map allows you to watch over the entire enterprise network and isolate down to the network element, transaction or even packet behind any performance event – real time or back in time.

Problem Domain Isolation
Analyze every device in the path from WiFi to the WAN, through the virtual infrastructure and into the application environment. Visually locate links with errors or high utilization. With just a single click, dive deeper to isolate the transaction tier that is introducing latency to all upstream transactions that are awaiting response.

Event Reconstruction for Root Cause Resolution
Since we keep all the flows, transactions and packets, it is easy to reconstruct web content, database queries, N-Tier application transactions, and even playback VoIP calls and video streams.

Automated Transaction Analysis
Actionable application performance views enable Network Engineers to go from defense to offense, empowering them to go beyond proving "It’s not the network". Providing them packet level detail without the packet level complexity.
Eliminate the “War Room” Scenario

Since most IT Departments are divided into teams focusing on the network, servers, or applications, performance problems in critical systems can lead to a War Room situation. In these meetings, the goal is to have teams come together to collectively find the root cause for the problem. However, lack of common tools, hidden agendas, and the complexity of application problems often causes these War Rooms to be more toxic than productive.

With the AANPM solution, data from various sources such as packet analysis, NetFlow, and SNMP are collected and corroborated to give engineers cross-platform visibility into network and application problems. Multi-tenant access allows each user to define custom views that are specific to their domain of responsibility, while giving them access to readable data in lateral areas. This holistic view allows IT teams to collaborate and isolate problems quickly, bringing resolution to the War Room if not avoiding it altogether.

The Fluke Networks AANPM solution stands alone in deployment flexibility, depth of visibility across WiFi, WAN, LAN, and Data Center environments, end-user response time metrics, and 10G packet collection and analysis. Save money, improve staff efficiency and mitigate risk of application or network performance issues with this unique and comprehensive solution set.

Delivering Business Value

IT Organizations realize several benefits by implementing an AANPM solution:

- **Tool Consolidation** – Instead of purchasing individual tools for focused IT teams which may have overlapping functionality, Fluke Networks AANPM solution allows a one-stop solution with end to end visibility of the complete wired and wireless environment.

- **Common View** – Improve staff efficiency with better workflows that allow a broader audience to solve highly technical problems, promoting enhanced collaboration, and increased staff efficiency. War Room situations can be resolved as engineers are enabled to analyze lateral IT domains.

- **Deliver High Availability and Performance of Critical Applications** – Generate baseline performance metrics with alerting and automated

- **End To End Actionable Data** – Turn Network Operators into problem solvers, Network Engineers into Wireless experts, Application Engineers into protocol analysts with readable views on data from layer 1-7

Tired of the long meetings trying to figure out who owns the problem when everyone shows green? Does this sound familiar?

**IT’S NOT THE NETWORK**

**IT’S NOT THE APPLICATION**

**IT’S NOT THE SERVER**

Watch this short video that brings this real problem to life, and then see how to eliminate the War Room scenario all together. /war-room
What Makes Fluke Networks AANPM Solution Best in Class?

Fluke Networks delivers AANPM as a holistic end-to-end visibility solution, delivering monitoring and analysis capability to both the application and network environments in real-time and back-in-time.

Using stream-to-disk packet storage, application response time analytics, IPFIX (NetFlow), SNMP, critical performance data is collected and correlated to provide engineers with cause and effect visibility within a single dashboard view. The logical workflows allow users to identify problem domain and root cause typically within just a few mouse clicks. Graphical packet filtering is typically obtainable with one mouse click when it's determined that this level of visibility is needed.

Unique to Fluke Networks AANPM solution, is the added ability to monitor and troubleshoot the wireless infrastructure as well as support remote locations where more in-depth visibility is needed through a portable form factor. Providing capability that extends beyond the boundaries of the AANPM definition.
AANPM Key Capabilities

- Single UI displays through a highly customizable dashboards
- Automated Application n/Server/Site Discovery
- N-Tier application and transaction performance analysis
- Cloud Service Delivery Monitoring
- High volume packet archival at 10 Gbps line rate
- Comprehensive VoIP monitoring and troubleshooting
- Multi-segment Analysis
- QoS/CoS monitoring and reporting
- Virtual traffic flow analysis
- SLA monitoring for enterprise and cloud based applications
- Automated network discovery and map generation for visibility of what’s out there and where it’s connected
- See every hop at layer two and layer three and examine the health of every link, interface and device in the path
- Instant real-time bandwidth usage reports on top applications, conversations, and hosts
- Capacity Management and Flow Forensics for back in time identification of traffic on key links
- Wireless Analysis for problems in connectivity and performance in the air
- Graphical filtering down to the packet level of any performance problem

TruView + OptiView XG
A Collaboration that will End War Room Issues FOREVER.
Visual TruView™

Visual TruView is a patented highly optimized custom built appliance that leverages key data sets such as stream-to-disk packet storage, application response time, transactional decodes, IPFIX (NetFlow), and SNMP to present analytics through a single reporting interface.

As TruView processes analytics from these data sets, it time correlates the results providing cross-functional IT teams such as network engineering, application, and server teams with a new found ability to work more collaboratively and solve problems fast.

OptiView® XG

The OptiView XG network analysis tablet provides automated analysis for 10/100 Mbps, 1/10 Gbps and 802.11a/b/g/n wireless LANs.

Graphical path analysis and Network Navigator provide an instant, navigable picture of the connections between network switches and connected devices—speeding “time to know”.

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

For more information, visit www.flukenetworks.com/aanpm