

NAK SD-WAN Assessment

Providing you with insight into application usage, network utilisation and security threats in order to make an informed decision on SD-WAN

VISIBILITY IS KEY IN ALIGNING YOUR BRANCH INFRASTRUCTURE

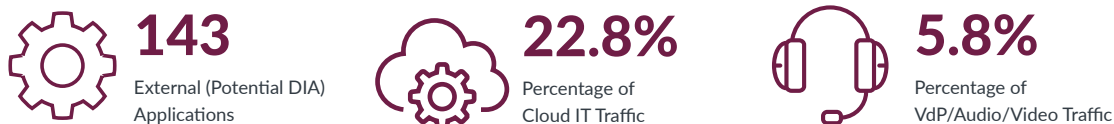
Like most organisations, you are likely to be struggling to gain the deep insight you need into your branch and remote network infrastructure: to truly understand the applications that are running on your WAN edge, the impact these are having on bandwidth and network performance, and whether your security posture is strong enough at the branch level to minimise risk.

The NAK SD-WAN Assessment provides you with the deep insight you need to identify network issues that you can quickly resolve and to create an informed roadmap for your branch network including whether SD-WAN is appropriate.

A HOLISTIC ASSESSMENT

Our assessment takes a holistic approach, analysing the devices, applications and traffic on your network to give you the insights you need.

Applications



We help you learn more about the applications being used at the WAN edge - which applications are destined for central systems and which are utilising external resources or clouds; also, to understand the type of applications in terms of business or personal, data or audio/visual.

Utilization



We enable you to gain the full picture on Network utilisation. Understand the bandwidth being used, the spread across business and non-business traffic and the fluctuation of usage over and across days and intra-day.

Security



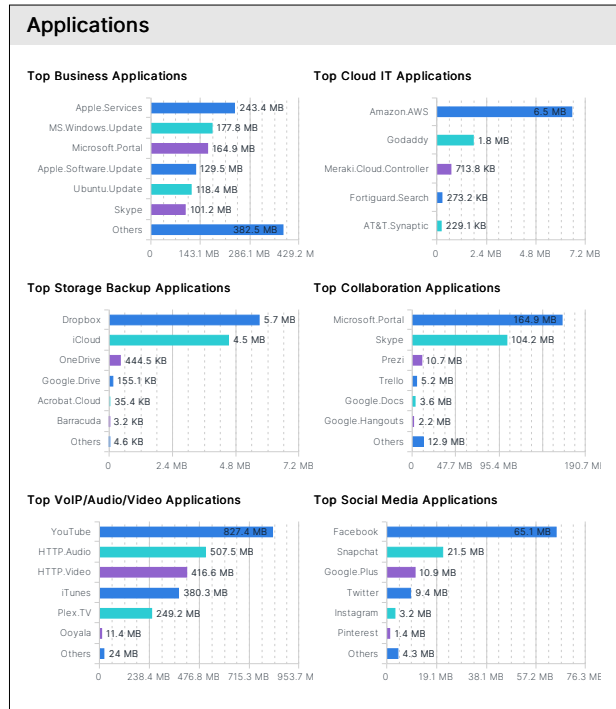
By understanding the application usage at your WAN edge, we are also able to assess your security posture, identifying apps with vulnerabilities, malware and botnets on your network and potential high-risk areas.

WE PROVIDE YOU WITH THE DETAIL TO MAKE INFORMED DECISIONS

With our experience in this area, we know that just a high-level overview is not sufficient. You are not looking for confirmation that you have a problem, you are looking to understand what is causing this and what you can do to address it. This is why our SD-WAN Assessment drills down and provides you with deep insights into Applications, Bandwidth and Security.

Application Visibility & User Experience

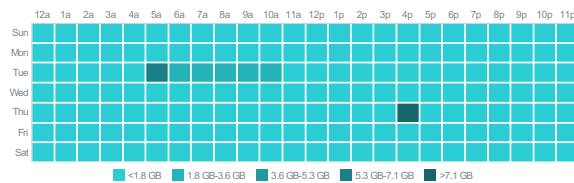
The assessment shows you which applications are being used on your network and how these are being used in terms of connections to internal and external resources. We categorise the different types of applications so you can distinguish between personal and business usage and break this down in terms of types such as VoIP, Video, Collaboration, Social Media, etc.



Utilization

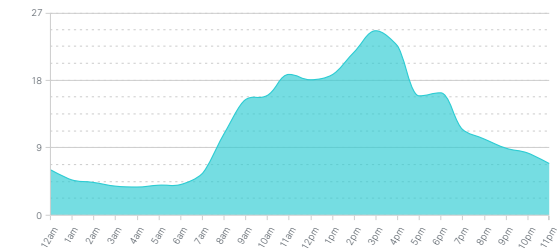
Average Bandwidth by Hour

By looking at bandwidth usage when distributed over an average day, administrators can better understand their organizational ISP connection and interface speed requirements. Bandwidth can also be optimized on an application basis (using throttling), specific users can be prioritized during peak traffic times, and updates can be rescheduled outside of working hours.



Average Log Rate by Hour

Understanding average log rates is extremely beneficial when sizing a security environment from a performance standpoint. Higher average log rates applied to specific hours usually indicate peak traffic usage and throughput. Calculating enterprise-wide log rates can also help when sizing for upstream logging/analytcs devices such as FortiAnalyzer. Keep in mind, the log rates presented here are with the full logging capabilities of the FortiGate enabled and will include all log types (traffic, anti-virus, application, IPS, web and system events).



Bandwidth Utilisation & Performance

The assessment report enables you to understand bandwidth utilisation with a detailed breakdown of the bandwidth being used across all of your locations.

This provides you with valuable insight into the optimisation of your WAN and to understand the cost-effectiveness of your underlying connectivity.

Security & Threat Prevention

We also outline the effectiveness of your security for traffic breaking out locally from your network at the branch or regional office. It flags those high-risk applications used across your network, pinpoints the top threats based on application vulnerability exploits detected, and even identifies any devices/hosts that are currently at risk on your network.

Security

Quick Stats

- 11,126 application vulnerability attacks detected
- 1 known botnet detected
- 125 malicious websites detected
- 17 high risk applications detected

- 1 phishing websites detected
- 13 known malware detected
- 5,190 files analyzed by sandbox
- 36 suspicious files detected by sandbox

High Risk Applications

The FortiGuard research team assigns a risk rating of 1 to 5 to an application based on the application behavioral characteristics. The risk rating can help administrators to identify the high risk applications quickly and make a better decision on the application control policy. Applications listed below were assigned a risk rating of 4 or higher.

#	Risk	Application	Category	Technology	Users	Bandwidth	Sessions
1	5	Asprox.Botnet	Botnet	Client-Server	1	1.74 MB	587
2	5	Proxy.HTTP	Proxy	Network-Protocol	11	7.10 MB	457
3	5	Hotspot.Shield	Proxy	Client-Server	2	203.99 KB	8
4	5	Skyfire	Proxy	Client-Server	3	27.20 KB	3
5	4	Rsh	Remote Access	Client-Server	67	9.82 GB	302,237
6	4	BitTorrent	P2P	Peer-to-Peer	8	1.79 MB	5,096
7	4	Telnet	Remote Access	Client-Server	9	37.81 MB	681
8	4	RDP	Remote Access	Client-Server	14	9.89 MB	48
9	4	TeamViewer	Remote Access	Client-Server	22	1.13 MB	38
10	4	FlashGet	P2P	Peer-to-Peer	3	309.78 KB	37

Top Application Vulnerability Exploits Detected

The performance gains and cost savings from leveraging public Internet circuits in an SD-WAN deployment need to be protected by a full security stack at the WAN edge. Application vulnerabilities at the branch can be exploited to compromise the security of your entire network. The FortiGuard research team analyzes these vulnerabilities and then develops signatures to detect them. FortiGuard currently leverages a database of more than 5,800 known application threats to detect attacks that evade traditional firewall systems. For more information on application vulnerabilities, please refer to FortiGuard at: <http://www.fortiguards.com/introsion>.

#	Risk	Threat Name	Type	Victims	Sources	Count
1	5	Adobe.FlashPlayer.Authplay.DLL.SWF.Handling.Code.Execution		1	1	2,035
2	5	IBM.Rational.ClearQuest.Username.Parameter.SQL.Injection	SQL Injection	30	1	195
3	5	Bash.Function.Definitions.Remote.Code.Execution	OS Command Injection	8	3	15
4	5	MS.GDIPlus.JPEG.Buffer.Overflow	Buffer Errors	3	2	10
5	5	MS.IE.MSXML.Object.Handling.Code.Execution	Buffer Errors	1	1	2
6	5	McAfee.Web.Reporter.EJBInvokerServlet.Object.Code.Execution	Code Injection	1	1	1
7	4	LaVague.PrintBar.PHP.File.Inclusion	Code Injection	30	1	183
8	4	ISAdmin.ISM.DLL.Access	Information Disclosure	29	1	169
9	4	GameSiteScript.Index.PHP.SQL.Injection	SQL Injection	30	1	169
10	4	OTE.Header.PHP.File.Inclusion	Code Injection	30	1	163

HOW DOES THE ASSESSMENT WORK?

As a Fortinet partner, we are able to utilise the market leading FortiGate technology to analyse your network traffic as well as Fortinet’s comprehensive tools to provide you with the detailed insights you require.

The process is quite simple. Once you request the NAK SD-WAN Assessment, we set-up a FortiGate appliance that we provide you, to connect behind your organisation’s gateway firewall or at a branch office. The period we leave the appliance in place is determined by your environment; we can normally collect enough data in a matter of days, however, if you have significant fluctuation of traffic over the week, then we can leave this in place for 1-2 weeks.

Once we have the traffic logs, we analyse these and produce your customer Assessment report. We schedule a time convenient to you to walk you through the findings and then provide you with the full written report.

THE VALUE YOU GAIN FROM THE ASSESSMENT

The aim of the NAK SD-WAN Assessment is to provide you with the detailed visibility into how your current branch network/WAN is being used; to provide you real insight into potential issues you have and how these can be addressed and provide you with the data to make an informed decision as to whether SD-WAN is right for your organisation.



KEY BENEFITS

By utilising NAK's SD-WAN Assessment service, you are able to fully understand your existing WAN environment and its usage, but more importantly, have the detail needed to assess the value and benefits that can be gained from moving to an SD-WAN solution.



Gain Application Visibility

To gain visibility into which applications are being used across your network and what internal and external resources are they connected to.



Assess Bandwidth Utilisation

Identify which parts of your network consume the most bandwidth and when, and also understand where current bottlenecks exist.



Understand User Experience

To truly understand the performance of your WAN in terms of the experience it is providing to your end users.



Understand SD-WAN Benefits

Gain an insight into how an SD-WAN approach can improve the performance, manageability and security of your wide area network.



Identify Security Risk

Pin-point those high-risk applications being used across your network and identify the areas of vulnerability that exist.



Assess Cost Savings

Through having an accurate understanding of your network usage, you are able to truly assess where different connectivity options could provide cost savings and the likely magnitude of these savings.

WANT TO KNOW MORE

We would be more than happy to walk you through how we perform this quick but comprehensive assessment of your current WAN environment, and how we are able to deliver significant insights to inform your network roadmap. Please do not hesitate to contact us:

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