



The Signs of an Insecure Network

Identify and remedy your network's inefficiencies for ultimate network performance and success



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INTRODUCTION



Networks are the beating heart of every enterprise.

From CRM to payroll: network performance, security and analytics are essential activities for today's IT and Network Operations teams.

Operating with a secure network is vital. Increasing numbers of successful hackers and cybersecurity threats, as well as huge growth in traffic, heightens concerns over network protection and security.



Use this eBook to help you identify and locate your network's weak spots. We also cover why these weak spots may exist, and what we can do to help you ensure your network is secure.

Signs Your Network Is Insecure

Unwanted browser toolbars

Lack of protection from
failsafe bypass devices

Internet searches
are redirected

Unplanned
password changes

Unexpected encryption
in your files

Network computers are
crashing, slowing or freezing

Failing to achieve edge-to-edge
visibility of your entire network

Unusual port requests

Monitoring solutions skipping
packets in traffic peaks

Receiving irrelevant
error notifications

Accusations of spam emails

Security programs
become disabled

Out of date software

Unusual traffic patterns

NETWORK GROWTH

Networks can, and do, grow over time. The monitoring solutions installed last year may not be able to access all traffic in your network today. This is key as unmonitored areas of your network can result in weak spots which, in turn, compromises your network without detection. Make sure your visibility grows with your network.

01

WRONG TOOLS

Using the wrong tools for network security is unfortunately a common error that affects network performance. Without the right tools for your network, for example using SPAN Ports in cases where Network TAPs are better suited, results in a less secure network due to poor network visibility.

02

Why Your Network Is Insecure

04

SOFTWARE UPDATES

Delaying your software updates is another reason that your network may be insecure. Without timely software updates that introduce the latest security provisions, your software protection becomes outdated and therefore becomes a greater risk.

03

TRAFFIC FLOW

Monitoring tools may be seeing increasing traffic flows, either through organic growth or during peak periods. Being unable to successfully manage the traffic flow into monitoring tools will likely affect your efficiency and security coverage.

How We Can Help

Network Critical is the window to your network. We are the solution that provides 100% visibility into your network, thus ensuring network performance success. We achieve this for our customers through a variety of technology solutions that are best-in-class. See below how we can help:

1

Deploying our passive optical TAPs, [which you can view here](#), to all areas of the network is an economical and robust method that we advocate to provide full visibility to network managers. This allows you to monitor all areas of your network for threats, including traffic that would not be visible when using SPAN ports. You can ask our experts where best to tap in your network, too.

2

Implementing our [specialised Network Packet Brokers](#) can help because they:

- Report on traffic flow levels, providing 'first line' monitoring of the live traffic; raising alerts to unusual traffic behaviour.
- Aggregate multiple traffic paths into optimised feeds for the monitoring tool.
- Filter out unwanted traffic. Minimising the traffic being sent to the monitoring tools permits a smaller monitoring footprint with lower costs
- Provide load balancing, ensuring that traffic flows consistently to all tools thus allowing them to work at optimum efficiency.

3

Our Bypass TAPs with failsafe technology can be implemented alongside Inline monitoring tools, to add a layer of protection. If the monitoring tool suffers a problem, our Bypass TAP will reconnect the active network link ensuring that network traffic flow is maintained, minimising traffic loss and supporting SLA requirements. [Find the diagrams on this page.](#)

4

Sending the right data to your tools is key. Network Critical's [PacketPro](#) for packet manipulation is a highly complex and intelligent technology that allows you to prepare your packets for relevant tools. Whether you need to remove unwanted header layers, rewrite an address, or remove or redact the payload for security purposes, our PacketPro will be able to assist.

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