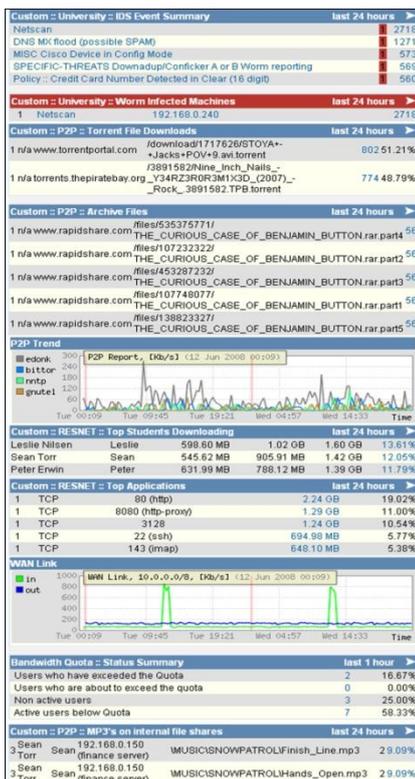


Know exactly what is happening on your network. Monitor, troubleshoot, and report on all network and student activity with a single cost-effective system.

Initial deployment on the halls of residence network was a real eye-opener. LANGuardian immediately picked up some very specific security and inapposite usage issues which we quickly addressed.

– John Cannon
Network Manager
Liverpool John Moores University



Proactive monitoring

NetFort LANGuardian gives you a detailed view of what is happening on your network, enabling you to take a proactive approach to managing it instead of reacting to events after they have happened.

LANGuardian monitors network traffic via the monitoring port on your core switch. It stores traffic data in a database, so you can view historical as well as real-time activity on your LAN.

With LANGuardian, you can see how your network bandwidth is being used. You can monitor security threats and detect torrent downloads as well as other P2P file share activity.

Simple to install

LANGuardian is simple to install on your network. Every core switch has a SPAN or mirror port to enable network monitoring. You simply install LANGuardian on a standalone server, connect it to the switch, and configure it via a web browser. It is completely non-intrusive and has no impact on network performance. There are no agents or clients involved so you don't need to reconfigure your network or install anything on your servers.

Easy to use

LANGuardian has a web browser interface that's easy to use and accessible from anywhere on your network. The home page is laid out in a dashboard format that shows you at a glance how your LAN is performing and allows you to drill down to whatever level of visibility you need. You can personalize the dashboard for each LANGuardian user.

Personalised dashboard

Because the network is a critical resource on an academic campus, responsibility for managing and monitoring it usually falls to more than one person:

- A network security manager might be interested in monitoring security threats and occurrences of peaks in bandwidth consumption.
- A network operations manager might be interested in network traffic flow and controlling bandwidth consumption.

LANGuardian can provide each of these user types, and many more, with a personalized dashboard that prioritizes the information they really need to see.

Immediate results

LANGuardian starts collecting data as soon as the installation completes, providing you with:

- A single point of reference for monitoring, troubleshooting, and reporting on your network.
- Visibility of the data you need to detect and resolve network issues.
- Details of all attempts to access unauthorized websites or engage in P2P activity that breaches copyright infringement laws.

As time goes on and you have been running LANGuardian for a while, its built-in database stores the details of past network activity, which you can use for advanced troubleshooting and network forensic analysis.

Key technical features

The technical features of LANGuardian include:

Bandwidth quota monitoring

With the new LANGuardian Bandwidth Quota Monitor, you can apply daily and weekly bandwidth quotas and generate a warning or take action when a quota is exceeded. You can manage your bandwidth automatically with no manual intervention.

Because it monitors only the bandwidth consumed by a user or group, LANGuardian avoids the complications that often arise when trying to manage consumption on a per-application basis.

LANGuardian Bandwidth Quota Monitor provides two-way integration with Bradford Campus Manager and other NAC systems. It receives client connect and user authentication events from the NAC, and sends SNMP traps and alerts as violations are detected.

Copyright infringements and DMCA notices

NetFort LANGuardian tracks BitTorrent peer-to-peer activity on your network and is a vital resource when investigating copyright violations. LANGuardian stores the BitTorrent startup messages that contain the info_hash announce request for the torrent. This value, which uniquely identifies the file being exchanged, is included in copyright infringement notices, so a quick database search in LANGuardian can reveal if the specified download has occurred on your network.

Internet monitoring

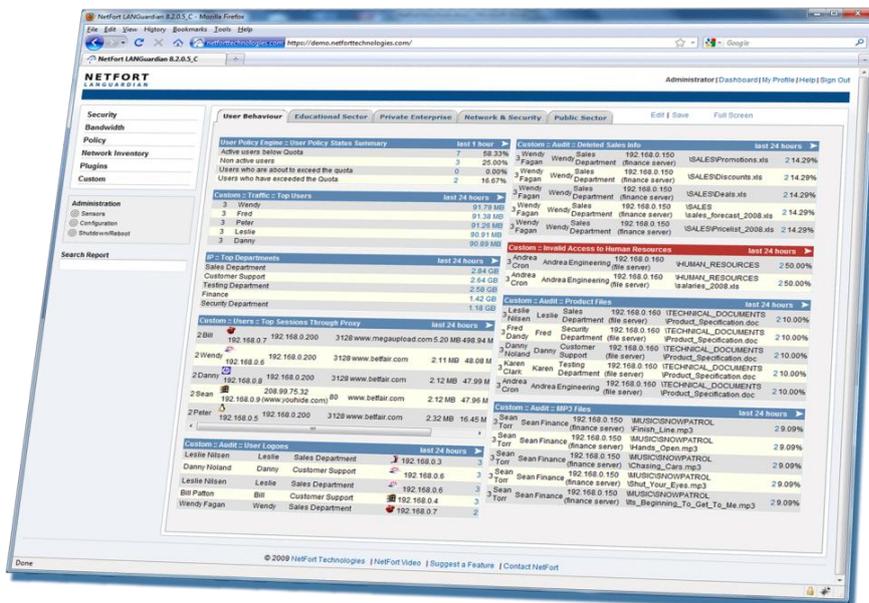
LANGuardian can monitor and report on Internet usage by the users on your network. You can log all web accesses, whether direct or through proxy servers, and see what websites your users are accessing the most. If inappropriate sites are being visited or excessive bandwidth is being consumed, you can block access to them.

Intrusion detection

LANGuardian includes an advanced network intrusion detection system that enables real-time detection and alerting of malicious events that occur on your network. Configured via a rule-based language, it can monitor network traffic using the signature, protocol, and anomaly methods of inspection.

Traffic collection engine

At the heart of LANGuardian is a



sophisticated traffic collection engine that collects, interprets, and stores raw traffic, Cisco NetFlow traffic, and sFlow traffic. Together with the LANGuardian database, the traffic collection engine provides real-time and historical visibility of network activity.

Instant alerting and e-mail notification

You can configure LANGuardian to send e-mail alerts to designated users whenever specified network events occur. You can also schedule any report to be sent by e-mail at regular intervals.

These are just some of the wide range of features available in NetFort LANGuardian. For more information, see our website at www.netfort.com

Who uses LANGuardian?

LANGuardian is used by a wide range of customers, including:

- Durham University
- Edinburgh Napier University
- Heriot Watt University
- London School of Economics
- Liverpool John Moores University
- Northumbria University
- Trinity College Dublin
- University College Dublin
- University of Central Lancashire
- University of Gloucestershire
- University of Greenwich
- University of Ulster

LANGuardian in action

Our university customers are using LANGuardian to help them address a wide variety of monitoring and reporting requirements. Here are some examples:

- Detecting and alerting on machines infected with viruses and the Conficker worm.

- Identifying a malware-infected machine that had resulted in an entire network being blacklisted by Google. LANGuardian was able to detect malware that went undetected by the anti-virus software on the machine.

- Detecting applications or students that were consuming excessive amounts of network bandwidth by engaging in high levels of P2P activity.

- Reporting on network usage. The customer uses LANGuardian to report on and justify network usage and expenditure.

Try LANGuardian

You can try LANGuardian on our online demo system:

<https://demo.netfort.com>

If you would like to try LANGuardian on your own network, you can download a free trial version from our website. The free trial is fully functional and last for 30 days from when you first use it. You can download it from our website:

<http://www.netfort.com/trial>

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