Unified Threat Management

CYBERHOUND

CyberHound's Unified Threat Management

Cybersecurity for Schools

The UTM is the ultimate solution – providing cybersecurity, cybersafety and a range of tools to enable behavioural analytics, reliable Internet and reporting as well as in-class controls for teachers. Most importantly the CyberHound platform provides the ultimate level of protection for a school's sensitive data.

The solution integrates with complementary solutions such as Learning Management and Student Management Systems, Wi-Fi providers and content providers such as eBooks, Adobe, Apple, Microsoft and Google.

At A Glance

- Next Generation Firewall
- Deep Packet Inspection
- Anti-virus & Malware scanning
- Intrusion protection & detection
- Secure Web Gateway
- BYOD on-boarding
- ClearView Behavioural Analytics
- Classroom Controls for teachers
- LMS integration
- XGEN Reporting Platform
- YouTube Analytics
- LiveZone
- Internet optimisation & caching
- Internet load balancing & failover

Real-time Protection

- Cyberbullying
- Student behavioural risks
- Reputational risk
- Viruses (at the gateway)
- Malware threats
- Ransomware attacks
- Web content threats
- Inappropriate Internet use
- Anonymisers and VPNs
- Port scanning
- Denial of Service protections
- Botnets
- Brute Force attacks
- Email content threats

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With a single intuitive user interface and CyberHound's best practice policy set up (available at implementation), we offer the most comprehensive, purpose built solution, backed up by the best support and managed services capabilities.

The solution has been developed specifically for schools over the last 20 years. This focus on the K12 sector and the value from the integration with third party services together with other industry and technology partnerships, provides school leaders and IT teams with a reliable, high performance and "best fit" solution. This is all designed, delivered and supported by one of Australia's largest and most successful specialist technology companies.

Solution Overview

Firewall

Next Generation Firewall delivers application aware firewalling to the enterprise with inbuilt controls for the identification and control of evasive technologies such as anonymisers, VPNs, proxies and more. Optimised for high throughput networks up to 10 Gbps.

Virus & Malware Protection

Traffic is scanned using the latest virus and malware signatures available ensuring the best protection for the network. Daily signature updates are provided as part of the service and automatically enabled.

Application Control

UTM Series Appliance delivers enhanced application control utilising scalable Deep Packet Inspection (DPI) technology. With 1600+ application signatures through layers 3 to 7 and regular updates this ensures maximum control over your network.

Category Web Filtering

Advanced category web filtering provides 500+ categories of content to ensure granular access to online digital content. Categorization is informed by over 600 million users globally and 4 trillion queries a month, and uses a combination of machine learning and 24×7 human quality assurance to maintain access and acceptable use policies in real time.

Intrusion Prevention System

High performance flow-based Intrusion Prevention System (IPS) delivers advanced threat protection by inspecting network traffic for exploits and vulnerabilities. With 12,000+ rules, weekly updates and advanced GeoIP controls, protection is provided against the latest known and unknown threats. Automated network protection and policy enforcement is via ClearPass integration.

XGEN Reporting

The XGEN reporting platform contains a centralized repository incorporating data collected from the various layers of network traffic. Data includes Internet and application usage, malware and virus events, GeoIP events, network utilisation, content analytics and more.

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LiveZone Portal

LiveZone provides teachers and students with a real- time dashboard view of data from their web-based activities. Data includes website and content breakdown as well as access to YouTube video usage by title, category and views.

Classroom Control

Classroom Control allows teachers to maximise productivity, student focus and learning by providing in class tools to manage access to content for individual students. With individual Classroom Controls and variable time options, teachers can allow certain web pages and whole sites that may otherwise be restricted, or even turn off all Internet access as required.

Aruba ClearPass

Aruba ClearPass extends a network's security capabilities by utilising CyberHound's Intrusion Prevention threat intelligence feeds to manage infected devices and apply automated policy enforcement.

ClearView

ClearView scans and analyses Internet traffic to identify indicators of student behavioural or welfare risk, allowing for early intervention on more serious issues.

SpeakUp

SpeakUp is an easy to use self-service portal that provides a safe and secure way for students to inform school leadership of important welfare matters such as bullying, cyberbullying, physical threats, self harm and more.

Advanced Threat Detection

The CyberHound service offers a multi-layered approach to threat detection and prevention. The service provided within the UTM combines all the latest AI and machine-learning technologies with regular updates to ensure the best protection is in place. This orchestration of threat intelligence feeds is delivered from CyberHound's highly secure Australian datacenters and networks that meet the highest levels of certification available.

Additional Services

Added Benefits

Superloop is one of Australia's leading Internet and managed services providers.

Many CyberHound customers are already benefitting from a broad range of services available from the Superloop Group. Superloop is also one of nbn's largest partners in Australia and has built a backhaul network to every nbn Point of Interconnect (all 121) with additional services available at the edge.

As a large international service provider Superloop also offers low latency from its network to cloud services in and outside Australia.

Service Summary

- Fibre Internet services for primary, secondary or additional capacity for schools

- Fixed Wireless Internet services for redundancy or cost-effective additional capacity

- Point to point links between campuses

- nbn connections at up to 1 Gbps (symmetrical) with excellent SLAs

- Phone and voice solutions for schools

- WiFi solutions - including fully managed options

Superloop has become a strategic and trusted partner to many schools through the provision of critical services and the excellent support network it offers.
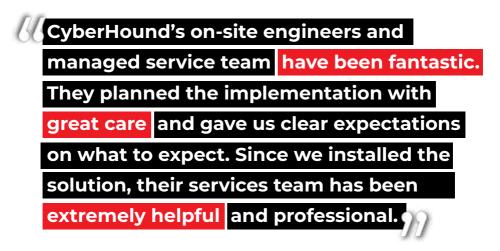

Implementation & Training

We have a wide range of experience in implementing and managing our solutions so schools can rest assured that their implementation expert will guide them through every step of the way. Our professional training services help school staff use the valuable welfare and in-classroom features, providing instructional sessions for school leaders, teachers, system administrators and student wellbeing teams.

Support & Managed Service

We provide the highest level of support from experienced technical experts, based in Australia, with deep expertise in our technology and school network requirements. We also provide proactive service reviews to ensure optimal use of the technology. All hardware appliances are provided through our OEM partnership with HPE and are custom built for performance and resilience. These are backed up by 24x7 on-site hardware support (subject to HPE terms).

> **CyberHound's on-site engineers and managed service team have been fantastic. They planned the implementation with great care and gave us clear expectations on what to expect. Since we installed the solution, their services team has been extremely helpful and professional.**

Anthony Austin, ICT Manager, Penola Catholic College

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	SWG	UTM
Real-time Category Web Filtering	✔	✔
Certificate & BYOD Onboarding Service	✔	✔
HTTPS Inspection	✔	✔
Captive Portal	✔	✔
Active Directory Integration	✔	✔
Radius 802.1x Authentication	✔	✔
XGEN Reporting	✔	✔
Large Object Caching	✔	✔
Behavioural Analytics (ClearView)	✔ *	✔ *
Office 365 Email Scanning	✔	✔
Real-time Classroom Control for Teachers	✔	✔
YouTube Analytics	✔	✔
LiveZone and SpeakUp	✔	✔
LMS Integrations	✔	✔
Layer 7 Firewall		✔
DPI Application Control		✔
L3 Edge w/NAT/SNAT/PAT		✔
Intrusion Prevention System		✔
HTTP AV Scanning	✔	✔
Load Balancing and Failover		✔ *
Content Reputation Analysis		✔
IPSec VPN		✔
Aruba ClearPass Integration		✔
Advanced Threat Prevention		✔
Fully Managed/Hybrid Deployment Options	✔ *	✔ *
24x7 Hardware Support (on-site)	✔	✔
Product Training and Orientation	✔	✔

Feature on demand.