



# Security and DDoS Protection

Affordable higher-grade protection for schools and MATs of all sizes



## Affordable, higher grade hosted security

Our unique partnership with Fortinet, the global leaders in next generation firewalls, enables Schools Broadband to ensure the full protection of your school's network.

Built on world-leading carrier grade technologies, our Fortinet Managed Security Service is the only one of its kind dedicated to education in the UK.

This is an affordable yet higher grade solution, allowing us to connect any number of schools, regardless of their location, to the most advanced and cost-effective security services available.



**Officially one of the industry's most effective enterprise firewalls**

## No equipment or maintenance costs

Our Managed Security Service uses advanced cloud technology housed in UK based state of the art data centres.

The proven way to ensure all your network equipment is always up-to-date and in warranty, we remove all maintenance and management costs associated with on-site firewalls.

IT staff can still retain complete control and visibility of your school's network, though we will always manage and monitor your firewall and network 24/7/365 as part of our standard managed service.

## Integral Resilience

Our hosted security solution incorporates the largest number of FortiGate firewalls per cluster in Europe, continually detecting and responding to new global threats.

In the unlikely event of a problem, our duplicate back-up service automatically kicks in providing your school with continuous protection against the world's most advanced threats.

## Intrusion Prevention

Schools Broadband's Intrusion Prevention System (IPS) safeguards customer networks from all known and unknown threats, protecting critical applications from external and internal attacks.

Backed by automatic, real-time updates, delivered by FortiGuard Services, our Multi Threat Protection blocks new exploit kits every day, leveraging a database of thousands of unique attack signatures stopping attacks that might evade conventional firewall defences.

Anomaly-based detection also enables the system to recognise threats for which no signature has yet been developed by monitoring and blocking malicious network activity.



Find out more. Call or email:

**01133 222 333**

[info@schoolsbbroadband.co.uk](mailto:info@schoolsbbroadband.co.uk)



## Automated DDoS Protection

Together with our Unified Threat Management system, our fully automated DDoS Protection, protects both our own and our customer's networks from more frequent and powerful DDoS attacks.

Our enterprise solution filters all malicious traffic from all non-malicious traffic, blocking even the severest of DDoS attacks multiple times every single day.

Scrubbing and removing malicious traffic from the main traffic stream, the DDoS protection system contains attacks in a matter of seconds. This means we enjoy 100% core network up-time, enabling highly reliable connections for schools.

Since the introduction of our DDoS Protection platform, no school on our network has ever been taken off-line or had their Internet service degraded as a result of a DDoS attack.



**100% DDoS Protection  
record since 2019**

## Multi-Layer Protection

Using behavioural analysis, traffic signatures, rate limiting, and additional techniques to identify malicious traffic per source-address, all identified traffic sources are immediately blacklisted.

Our networking stack consists of multiple layers of protection, from physical layer 1 all the way up to application protection at layer 7.

Whitelists and blacklists of IP addresses are maintained very low down in the stack, and source traffic from addresses in the blacklists are blocked with the highest performance.

Once an attack source has been identified, it is added to the blacklist, and further traffic from that source is either blocked for a certain time (the dynamic blacklists) or indefinitely (permanent blacklists).

## Protection for schools and MATs of all sizes

Whether you look after the smallest of primary schools or the largest of Multi Academy Trusts, the large volume of detailed records held by educational organisations make them an attractive target for cyber criminals.

Speak to Schools Broadband about improving your school's resilience. We are cyber security specialists. It's what we are known for, it's what we excel in and it's why we have been awarded ISPA Best Security multiple times.

The **iSPAs**  
6 x ISPA Award  
**WINNER**



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## Resilient hosted service benefits

Full visibility, granular control and real-time protection against the latest Advanced Persistent Threats

One single, simplified system that combines firewalls, intrusion prevention, antivirus, e-mail filtering and application control

Hourly system updates to protect against the latest and most advanced threats

Unrestricted protection, as there is no per user charge. It comes as part of your package

Peace of mind, as we manage and monitor your firewall and network 24/7/365

GDPR compliance features, enabling schools to ensure relevant data does not leave the school network

Advanced Quality of Service (QOS), enabling bandwidth control to apps such as iPlayer or Microsoft updates

Advanced application control, & intrusion prevention including blocking of proxy avoidance software such as Ultrasurf and Tor

Enhanced QOS, Inline Antivirus, Intrusion detection and Prevention, Email filters and zero day threat protection

SSL & IPsec VPN technology enables staff, IT Support and your LA to access your network remotely

Set different remote access rights to onsite servers with Windows Active Directory integration

Full audit trail of who logs on and off and the times of their activity

FortiTokens provide two factor authentication providing an extra level of security when users connect remotely



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## Features and Benefits

Pre-defined and customised charts help monitor and maintain identity attack patterns, acceptable use policies, and demonstrate policy compliance.

Network capacity and utilisation data reporting allows you to plan and manage your network more efficiently

Scalable architecture allows the FortiAnalyzer to run in collector or analyser modes for optimised log processing

Advanced features such as event correlation, forensic analysis and vulnerability assessment provide essential tools for in-depth protection of complex networks

Secure data aggregation from multiple FortiGate security appliances provides network-wide visibility and compliance

Fully integrated with FortiAnalyzer appliances for a single point of command, control, analysis and reporting

Notify key personnel when specific events or triggers occur by creating granular alert rules

Reconcile various log types (such as traffic, anti-virus and attack) to perform forensics with detailed logging capabilities

Create custom SQL datasets, charts and reports which can then be imported/exported to other administrative domains or FortiAnalyzers

Full integration with Windows Active Directory

ISO 9001:2008 certified

