Appropriate Filtering for Education settings



May 2024

Filtering Provider Checklist Reponses

Schools (and registered childcare providers) in England and Wales are required "to ensure children are safe from terrorist and extremist material when accessing the internet in school, including by establishing appropriate levels of filtering". Furthermore, it expects that they "assess the risk of [their] children being drawn into terrorism, including support for extremist ideas that are part of terrorist ideology". There are a number of self review systems (eg www.360safe.org.uk) that will support a school in assessing their wider online safety policy and practice.

The Department for Education's statutory guidance 'Keeping Children Safe in Education' obliges schools and colleges in England to "ensure appropriate filters and appropriate monitoring systems are in place and regularly review their effectiveness" and they "should be doing all that they reasonably can to limit children's exposure to [Content, Contact, Conduct, Contract] risks from the school's or college's IT system" however, schools will need to "be careful that "over blocking" does not lead to unreasonable restrictions as to what children can be taught with regards to online teaching and safeguarding."

By completing all fields and returning to UK Safer Internet Centre (<u>enquiries@saferinternet.org.uk</u>), the aim of this document is to help filtering providers to illustrate to education settings (including Early years, schools and FE) how their particular technology system(s) meets the national defined 'appropriate filtering standards. Fully completed forms will be hosted on the UK Safer Internet Centre website alongside the definitions

Company / Organisation	Wave 9 Managed Services Limited
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Contact details	Lee Neely lee.neely@wave9.co.uk
Filtering System	WaveConnect – Managed Educated Internet Service
	incorporating Sophos XGS and Lightspeed Systems
Date of assessment	8.9.24

It is important to recognise that no filtering systems can be 100% effective and need to be supported with good teaching and learning practice and effective supervision.

System Rating response

Where a supplier is able to confirm that their service fully meets the issue identified in a specific checklist the appropriate self-certification colour for that question is GREEN.	
Where a supplier is not able to confirm that their service fully meets the issue	
identified in a specific checklist question the appropriate self-certification colour for that question is AMBER.	

Illegal Online Content

Filtering providers should ensure that access to illegal content is blocked, specifically that the filtering providers:

Aspect	Rating	Explanation
Are IWF members		Wave 9, Sophos and Lightspeed are IWF Members
 and block access to illegal Child Abuse Images (by actively implementing the IWF URL list), including frequency of URL list update 		Yes, WaveConnect actively implements the IWF URL list
 Integrate the 'the police assessed list of unlawful terrorist content, produced on behalf of the Home Office' 		Yes, WaveConnect actively integrates the police assessed list of unlawful terrorist content, produced on behalf of the Home Office.
 Confirm that filters for illegal content cannot be disabled by anyone at the school (including any system administrator). 	Sophos	All categories associated with illegal content are blocked at System Level and cannot be disabled at the school.
	Lightspeed	All websites categorised as illegal in Lightspeed's extensive, constantly updated URL database are placed in sealed categories that cannot be allowed by any IT admin or member of staff in a school or organisation.

Inappropriate Online Content

Recognising that no filter can guarantee to be 100% effective, providers should both confirm, and describe how, their system manages the following content

Content	Explanatory notes – Content that:	Rating	Explanation
Discrimination	Promotes the unjust or prejudicial treatment of people on the grounds of race, religion, age, or sex.	Sophos	The category "Intolerance and Hate" which would cover content that promotes the unjust or prejudicial treatment of people on the grounds of race, religion, age, or sex is blocked by default.
			When a user attempts to search for anything, a list of keywords is referenced. If the search includes

			any discriminatory or offensive words on the list, access will be blocked. Our importable flagged keyword list contains hundreds of entries, and admins can customise the list with their own keywords that best match their communities.
Drugs / Substance abuse	displays or promotes the illegal use of drugs or substances	Sophos	The "Controlled substances category" along with "Legal highs" and "Marijuana" which cover content that displays or promotes the illegal manufacture, trade or use of drugs or substances are blocked by default
		Lightspeed	We have specific categories for blocking access to drugs and alcohol.
Extremism	promotes terrorism and terrorist ideologies, violence or intolerance	Sophos	Our standard deployment for Education would block the category "Intolerance and Hate" It would also block the category "Criminal Activities" which would include the "Counter Terrorism Internet Referral Unit" list. This would cover sites that promote terrorism and terrorist ideologies, violence, or intolerance. Our violence extremism category
Combling	Freebles concluse	Comboo	contains all of the latest URLs from the Home Office that promote terrorism, terrorist ideologies, violence or intolerance—as well as URLs added by the worldwide education community.
Gambling	Enables gambling	Sophos	Wave 9 standard deployments would block any website which falls under the Gambling category, for all user-types, be they staff or student. If no user-based-filtering is performed or possible, the Gambling category is blocked by

			the upputhenticated web
			the unauthenticated web
		1 Selet	policy.
		Lightspeed	Lightspeed Filter's gambling
			category blocks all websites
			related to gambling, casinos,
			betting, lottery and
			sweepstakes.
Hate speech	Content that expresses hate	Sophos	WaveConnect provides an
	or encourages violence		"Intolerance
	towards a person or group		and Hate" category to enable
	based on something such as		blocking of sites that foster
	race, religion, sex, or sexual		racial
	orientation		supremacy or vilify/discriminate
			against groups or individuals.
			This is blocked by default
		Lightspeed	Lightspeed blocks these sites
		U 1	using a combination of
			categories including Violence,
			Extremism, Mature
Malware /	promotes the compromising	Sophos	Wave 9 provides an
Hacking	of systems including	000000	"Anonymizers", "Hacking,
	anonymous browsing and		Phishing and Fraud", "Spam
	other filter bypass tools as		URLs" and "Spyware and
	well as sites hosting malicious		Malware" categories. Wave 9
	content		block these categories. In
	content		addition, all unencrypted
			content is scanned for malware.
			A cloud-delivered sandbox
			analyses any downloaded active
			content and blocks malware.
			This category is included in our
			default Safeguarding list.
		Lightenood	
		Lightspeed	Malware and other malicious content is blocked before it
			reaches the network. Our
			database categorises sites with
			demonstrated or potential
			security risks into several
			security
			categories, and for extra safety,
			all unknown URLs can be
			blocked.
Pornography	displays sexual acts or explicit	Sophos	Wave 9 includes "Sexually
	images		Explicit", "Nudity" and
			"Extreme" categories. Wave 9
			block these categories. Also,
			Wave 9 provides "Safe-Search"
			enforcement on the major
			search engines.
		Lightspeed	all pornographic
			material in the porn category is
L			

			blocked. In addition, potentially illegal pornographic material is locked as well as a second category porn.illicit containing potentially illegal pornographic material. This is a sealed category and cannot be unblocked.
Piracy and copyright theft	includes illegal provision of copyrighted material	Sophos	Wave 9 standard deployments would block sites supporting, enabling, or engaging in sharing of content that is protected intellectual property and websites that provide, distribute or sell school essays, projects, or diplomas. The option is also available to add a "Creative Commons" license that only shows images published under Creative Commons licensing laws
		Lightspeed	Our category forums.p2p blocks access to all peer-to-peer and file-sharing sites that would enable plagiarism or sharing copyrighted material
Self Harm	promotes or displays deliberate self harm (including suicide and eating disorders)	Sophos	Wave 9 standard deployments would block Sites promoting suicide and self-harm. These categories are included in our default Safeguarding list.
		Lightspeed	To prevent any students from looking at websites that promote or display self-harm, again the blocked-search key words is referenced; and a number of different categories can be controlled such as forums and adult. Our safeguarding solution Lightspeed Alert™ built into the uses advanced AI and a 24/7 safety specialist team to notify administrators instantly when a student types anything relating to self-harm online. Alert works across all productivity and education apps, files, chat including Microsoft Teams and Google Workspace and provides

			schools with a timeline of the event including screenshots and activity logs.
Violence	Displays or promotes the use of physical force intended to hurt or kill	Sophos	Wave 9 provides "Extreme" and "Criminal Activity" categories. Wave 9 block these categories to block sites displaying or promoting the use of physical force intended to hurt or kill. These categories are included in our default Safeguarding list.
		Lightspeed	Our violence category contains all sites that promote the use of physical force intended to harm or kill. Lightspeed Alert also notifies schools and admins when students type anything related to violence

This list should not be considered an exhaustive list. Please outline how the system manages this content and many other aspects

Sophos:

The system currently provides 91 different URL categories. For the full list see: <u>https://www.sophos.com/threat-center/reassessment-request/utm.aspx</u>.

Sophos Labs enables us to dynamically update our web categories by providing a URL categorisation services that integrate Sophos URL data with that of multiple third-party suppliers, including IWF and CTIRU, to provide a market-leading database.

We classify sites at the IP, domain, sub-domain level and path URL data is constantly reviewed, and unclassified websites are classified on an hourly basis.

Lightspeed:

Lightspeed Systems uses our online database that leverages AI, machine learning, and the infinite cloud for the most accurate and comprehensive categorisation of the Web. Schools have the ability to restrict access to certain categories or to unknown URLs

Regarding the duration and extent of logfile (Internet history) data retention, providers should outline their retention policy, specifically including the extent to the identification of individuals and the duration to which all data is retained.

Sophos:

Data retention is at the discretion of the customer and beyond any policy requirements (E.g. the GDPR) policy is only limited by the storage capacity of the schools filtering appliance and any archive logs they may choose to keep. The school is the data controller and so should determine their data retention requirements in line with their policy.

Lightspeed:

We retain data for as long as necessary to fulfil the purposes for which it was collected for. Following termination or deactivation of a School account, Lightspeed Systems may retain profile information and content for a commercially reasonable time for backup, archival, or audit purposes, but all Student Data associated with the School will be deleted in accordance with Lightspeed Systems Data Deletion policy, or in accordance with active DPA, DSA or SLA. We may maintain anonymised or aggregated data, including usage data, for analytics purposes

Providers should be clear how their system does not over block access so it does not lead to unreasonable restrictions

Sophos:

Our database is in use on over 300 million devices worldwide. This provides a uniquely large user community that reports category misclassification requests directly to the service.

Currently, fewer than 50 of these requests are made per day. This lack of customer complaint demonstrates clearly that the category database is of the highest standard. Furthermore, most of the reported URLs are not reclassified as review ordinarily determines the original classification is correct.

We also provide tools that enable customers to create custom categories that over-ride current URL database classifications and end users to request page reclassification, by the system administrator, directly from the block page or via the Wave 9 Helpdesk.

Lightspeed:

Customers are able to customise the filter to meet their local needs including allowing or blocking categorise, domains, URLs and IPs. Additionally, customers are able to configure the filter to allow normally blocked site for a period of time. Finally, as an education only based company our database is tuned for education by education via our share option where customers can share category changes with us.

Filtering System Features

How does the filtering system meet the following principles:

Principle	Rating	Explanation
 Context appropriate differentiated filtering, based on age, vulnerability and risk of harm – also includes the ability to vary filtering strength appropriate for staff 	Sophos	Wave 9 can apply policy rules based on group information, usually the schools Active Directory. If the school includes objects related to age, year group, role then policies can be created that open certain categories of websites once a certain age has been reached (e.g. the "Sex Education" category). Wave 9 also logs all user group activity separately for reporting. Reports can be generated for a specific event in a specific user group. All alerts

		can be sent using a syslog into a
		security incident and event
		management system (SIEM)
	Lightspeed	Lightspeed Filter has been
		designed specifically for
		education. It can be fully
		customised to perfectly
		match your organisational
		structure-tailoring policies
		based for different year
		groups, ability, location or
		for members of staff.
• Circumvention – the extent and ability	Sophos	Wave 9 provides the
to identify and manage technologies	oopnoo	"Anonymizers' category in our
and techniques used to circumvent		web filter. Wave 9 blocks this
the system, specifically VPN, proxy		category . Whilst we also provide
services, DNS over HTTPS and ECH.		a 'block filter avoidance app'
		application rule. Both policies
		would block users from being
		able to circumvent their filtering
	Lightspeed	Lightspeed's patent-pending
		Smart Agents filter any
		device, any app, any
		browser; and provide easy
		SSL decryption without
		proxies, PACs, or certificate
		hassles. Our extensive
		database of URL's is
		constantly being updated
		with the latest VPN's and
		filter bypassing tools and
		keeping them blocked.
• Control – has the ability and ease of	Sophos	Our service is
use that allows schools to control the	Sophos	Co-administered with the
filter themselves to permit or deny		establishment allowing
access to specific content. Any		nominated members of staff
changes to the filter system are		control of the filter policies
logged enabling an audit trail that		or assistance from our
ensure transparency and that		qualified helpdesk staff.
individuals are not able to make		Temporary "unblocking" can
unilateral changes		be achieved "ad-hoc" at the
		discretion of the school by
		an authorised member of
		staff with limited delegated
		admin rights
	Lightspeed	Tiered administration across
		our products allows different
		levels of control to be
		permitted to different
		schools and users.
		Designated staff can add and
<u> </u>		

		a althe local more and literate a second second as
		edit keyword lists and create
		local allow and block lists.
		YouTube access can be
		managed by category,
		channel, and video. Using
		Lightspeed Classroom
		Management™, teachers can
		allow or block URLs to
		expand or constrict access
		with oversight.
Contextual Content Filters – in	Sophos	The Sophos XG includes a
addition to URL or IP based filtering,		content scanning feature,
the extent to which (http and https)		whereby URLs and web
content is analysed as it is streamed		pages are dynamically
to the user and blocked, this would		analysed for specific
include AI generated content. For		keywords or phrases.
example, being able to contextually		Customers can upload
analyse text on a page and		multiple keyword lists to
dynamically filter, including GenAl		support different languages
content such as ChatGPT.		and provide better
		granularity. Any pages
		matching words or phrases
		contained within the
		keyword lists can be blocked
		and/or logged. In addition,
		Administrators/Safeguarding
		officers can review the
		blocked keywords using the
		onboard log viewer and
		determine the context.
	Lightspeed	Lightspeed Filter utilises a
	0 1	database system that
		dynamically scans page
		content to ensure that the
		page is correctly categorised.
 Deployment – filtering systems can be 	Sophos	The Sophos Firewall solution is
deployed in a variety (and	500103	available as a physical appliance,
combination) of ways (eg on device,		virtual appliance or as an image
network level, cloud, DNS). Providers		on AWS (bring your own licence
should describe how their systems are		or pay as you go) or on Azure.
deployed alongside any required		Network traffic is then passed
configurations		through the appliance as
		required for Firewall or web
		filtering. Also available as an
		device based agent utilising
		Central Intercept X Advanced
		client
	Lightspeed	Lightspeed is deployed in a
		variety of ways, including device
		based Agents, onsite network

		unmanaged devices) or DNS filtering based in the cloud.
 Filtering Policy – the filtering provider publishes a rationale that details their approach to filtering with classification and categorisation as well as over blocking 	Sophos	Our Service Level Agreement (SLA) outlines the default polices applied with our service. Any changes to these are agreed with the establishment dependent on school context and assessment of risk. Our rationale is published in our "Security, Safeguarding and Prevent" documentation for WaveConnect Education service
	Lightspeed	The adaptive AI database of Lightspeed Systems leverages AI, machine learning and the infinite cloud for the most accurate and comprehensive categorisation of the Web. This means you save time not having to re-categorise, and you can count on students staying safe without over blocking.
 Group / Multi-site Management – the ability for deployment of central policy and central oversight or dashboard 	Sophos Lightspeed	Wave 9 can provide a management console that enables the customer to manage multiple sites in one console. Central policy can be configured and pushed out to multiple sites. Whilst reporting and alerting can all be managed centrally Lightspeed Filter allows
		tiered levels of control based on user's roles in the organisation, as well as centralised policies that work across entire schools, local authorities or trusts
 Identification - the filtering system should have the ability to identify users 	Sophos	Our services as a multitude of different ways of identifying users, both transparent (e.g. NTLM or SAML) and non-transparent (e.g. Captive Portal).

		Typically, we use "Active Directory" single sign-on to
		Directory single sign-on to
		identify users
	Lightspeed	Lightspeed Filter can
		integrate with authorisation
		sources to gather user
		credentials, be configured
		for a captive portal or use
		local accounts.
		Lightspeed identifies users
		through a range of different
		methods including a web
		portal, agent (application)
		identification, and RADIUS
		integration.
 Mobile and App content – mobile and 	Sophos	Our service can be deployed
app content is often delivered in		in transparent mode, adding
entirely different mechanisms from		this to the "Guest" Wi-Fi
that delivered through a traditional		provided by the
web browser. To what extent does		establishment can be easily
the filter system block inappropriate		achieved. Users need to be
content via mobile and app		identified by the use of the
technologies (beyond typical web		"Captive Portal", users must
browser delivered content). Providers		authenticate first. If HTTPS
should be clear about the capacity of		decryption is deployed, the
their filtering system to manage		block page can display the
content on mobile and web apps and		security certificate that
any configuration or component		needs to be deployed to the
requirements to achieve this		mobile device(s) and
		instructions on how to
		install the security
		certificate on the mobile
		device so alerts are no
		longer seen. However,
		deploying HTTPS to many
		APPS may have an adverse
		effect as they employ
		"certificate pinning" and
		may not allow decryption. In
		this case, an HTTPS
		decryption exception will
		need to be added manually
		with the support of our
		Helpdesk staff, which is
		included within the
		WaveConnect Education
		support SLA. Please note
		that this does not cover
		3G/4G cellular data services
		or devices not connected to
		the establishment's internal

	Lightspeed	network (e.g. home broadband) All traffic that passes through a school or college network can be intercepted, including content via mobile and app technologies. If inappropriate apps are the issue, Lightspeed Mobile Device Management [™] , utilises app management to control device apps and restrictions.
 Multiple language support – the ability for the system to manage relevant languages 	Sophos Lightspeed	Wave 9 supports multiple block pages to support multiple languages and custom block pages where multiple languages are required on the same page. Our world categories contain websites from multiple countries that can be filtered accordingly. Flagged keywords can be added in any language to flag suspicious or concerning user activity. Further, we can enforce Google safe search, which has Google's own rules in multiple languages
 Remote devices – with many children and staff working remotely, the ability for school owned devices to receive the same or equivalent filtering to that provided in school 	Sophos	We have three options addressing remote working that schools can opt for depending on the extent to which this applies to a particular establishment. At a based level all our services include remote access VPN as standard and when enforced by device management all traffic is router via the school based web filter. A second option is to enforce a filtering policy using the Sophos Central Endpoint protection

		client. This includes web
		control, which has specific
		policies for remote devices.
		These policies can be
		managed via Sophos Central
		(Cloud management
		platform) and any violations
		can be reported on. There
		are over 48 categories that can
		be configured, as well as
		file type blocking. This
		includes sites that are on the
		IWF and Counter Terrorism
		Referral Unit block lists. For
		schools where there are
		large numbers of student
		devices being used at home
		and in school, we can deliver
		the option of filtering and
		monitoring using an agent
		based solution based on
		Lightspeed.
	Lightspeed	Lightspeed Filter uses
	Ŭ,	patented Smart Agents that
		sit on every device to give
		schools the same level of
		filtering on any device and
		any OS remotely. Schools
		can also enable "after school
		rules" and time or location-
		based policies to these
		devices to ease restrictions
Description of the description of the shifts of the	Carlan	accordingly
Reporting mechanism – the ability to	Sophos	There is the ability to report
report inappropriate content for		inappropriate content via a
access or blocking		web portal or by request to
		our help desk.
	Lightspeed	We provide an extensive list
		of reporting and options to
		create customised and easily
		shareable reports.
 Reports – the system offers clear 	Sophos	A range of standard and
historical information on the websites		customisable reports can be
users have accessed or attempted to		viewed or automated by
access		email that shows user
		activity.
	Lightspeed	Admins have immediate
		access to pre-installed web
		activity reports that may be
		customised by date range,
		school, and group.
		school and group

 Safe Search – the ability to enforce 'safe search' when using search engines 	Sophos	SafeSearch is enforced by both the Authenticated and Unauthenticated web policies for the search engines google.com/uk, bing.com and yahoo.com/uk. All other search engines are blocked, thus providing only Safe Search entry points to those search engines where Safe Search enforcement is possible.
	Lightspeed	We allow schools to force Safe Search for the entire
		school or individual groups

Filtering systems are only ever a tool in helping to safeguard children when online and schools have an obligation to "consider how children may be taught about safeguarding, including online, through teaching and learning opportunities, as part of providing a broad and balanced curriculum".¹

Please note below opportunities to support schools (and other settings) in this regard

Wave 9 is 100% focussed on the provision of safe, secure Internet connectivity and infrastructure to Education. Our leadership team have been involved in the provision of internet and filtering services to education since the late 1990's.

Our services are designed and delivered in a way that ensures our school customers benefit from a service that exceeds the requirements set out in Annex C of KCSIE

¹ <u>https://www.gov.uk/government/publications/keeping-children-safe-in-education--2</u>

PROVIDER SELF-CERTIFICATION DECLARATION

In order that schools can be confident regarding the accuracy of the self-certification statements, the supplier confirms:

- that their self-certification responses have been fully and accurately completed by a person or persons who are competent in the relevant fields
- that they will update their self-certification responses promptly when changes to the service or its terms and conditions would result in their existing compliance statement no longer being accurate or complete
- that they will provide any additional information or clarification sought as part of the selfcertification process
- that if at any time, the UK Safer Internet Centre is of the view that any element or elements of a provider's self-certification responses require independent verification, they will agree to that independent verification, supply all necessary clarification requested, meet the associated verification costs, or withdraw their self-certification submission.

Name	Lee Neely
Position	Director
Date	12 September 2024
Signature	