Appropriate Filtering for Education settings



June 2021

Filtering Provider Checklist Reponses

Schools 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, 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 they "should be doing all that they reasonably can to limit children's exposure to the above 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."

Included within the Scottish Government national action plan on internet safety, schools in Scotland are expected to "have policies in place relating to the use of IT and to use filtering as a means of restricting access to harmful content."

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

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.

Company / Organisation	
Address	
Contact details	
Filtering System	
Date of assessment	

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		E2BN and E2BN Protex are long standing
		members of the IWF. We attend the funding
		council and help shape the IWF's work.
		(IWF – The Internet Watch Foundation – an
		organisation that finds and takes down child
		abuse materials as well as providing advice to
		central government.)
 and block access to illegal 		E2BN Protex blocks access to Child Abuse Images
Child Abuse Images (by		by actively implementing the CAIC list. The list is
actively implementing the IWF		update twice a day and distributed to all E2BN
URL list)		Protex systems overnight. The list is hidden from
		all Protex users (including system administrators)
		and cannot be overridden.
 Integrate the 'the police 		E2BN Protex implements the latest Home Office
assessed list of unlawful		counter terrorist list as part of our support for
terrorist content, produced on		'PREVENT'.
behalf of the Home Office'		The list is hidden from all users (including
		system administrators) and cannot be
		overridden.

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.		E2BN Protex filters discriminatory content through its 'intolerance' category.
Drugs / Substance abuse	displays or promotes the illegal use of drugs or substances		E2BN Protex filters illegal drug use and substance abuse through its 'Drugs' category.
Extremism	promotes terrorism and terrorist ideologies, violence or intolerance		E2BN Protex filters extremist content through its 'Extremism and 'Violence' categories using the methods described above.
Malware / Hacking	promotes the compromising of systems including		E2BN Protex filters malware and hacking sites through its 'File Hosting', 'Illegal Hacking' and

	anonymous browsing and other filter bypass tools as well as sites hosting malicious content	'Proxy' categories using the methods described above.
Pornography	displays sexual acts or explicit images	E2BN Protex filters pornography and other explicit sexual content through its 'Pornography' and 'Violence' categories using the methods described above. (Illegal sexual content is blocked via the IWF list mentioned above)
Piracy and copyright theft	includes illegal provision of copyrighted material	E2BN Protex filters content against the PIPCU (Police Intellectual Property Crime Unit) list provided by the Metropolitan Police.
Self-Harm	promotes or displays deliberate self-harm (including suicide and eating disorders)	E2BN Protex filters 'self-harm', 'pro-an', suicide and other pages depicting or promoting self- harm are through its 'Adult' category using the methods described above. This categorisation means that the pages are available via the Staff profile in order to allow school Staff to access these sites for research purposes or through guided whole class teaching in PSHE
Violence	Displays or promotes the use of physical force intended to hurt or kill	E2BN Protex filters violent content through its 'Violence' category using the methods described above.

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

E2BN Protex manages all content in real time. First the URL of the requested page is compared to the URL lists above. All content on the above lists are blocked to all users. A Protex 'page disallowed' screen will be served instead of the requested page. If the page URL is not referenced on the above URL lists, the URL is compared to other 'allowed' and 'disallowed' URL lists created by our filtering teams and amended to the needs of individual school policies.

If the page is on a 'disallow' list, the page is not severed and the Protex 'page disallowed' screen is displayed. If the URL of the page does not result in the page being blocked, Protex analyses the page content. Page content is analysed for banned and weighted words and phrases, advertisements and other triggers. In this way, Protex is able to filter pages that contain inappropriate content whether or not they fall into one of the categories below. Page content is also assessed in the context of who the user is and where and when the user is accessing the content. For more information about how Protex does this see the section on Contextual Content Filtering below.

- There are various other categories of content checking and URL lists for other content. For example, "onlinegames" and "kidstimewasting" are generally blocked to students but not staff.
- For specific installations this default may be modified. For example, a Library may not want "onlinegames" blocked.
- A school's Protex system administrators may exert more control over the way these categories are applied to their own users if they wish(i.e. they can create school specific profiles for particular groups of users applied via integration with, for example, their Active Directory).
- A school's Protex system administrators (either school staff or as a service delegated to E2BN Protex) can modify the filtering by adding specific URLs to the set of Local Lists available on each Protex installation.
- E2BN Protex provides training and support for schools wishing to manage their own filtering categories and profiles.
- Alternatively they can apply any of the age-appropriate defaults profiles we supply.
- Application of the "Porn", "illegalDrugs", "illegalHacking" and "Proxy" categories cannot be overridden.

Use of search engines – Protex scans the submitted search and blocks unsuitable search terms as well as content checking the results page of each search

Image searches - Image searching is a very powerful tool but some schools have had to ban it because of the nature of some of the thumbnail images displayed to the unwary. E2BN Protex addresses this problem by enforcing safe search for all pupil filtering profiles when common search engine are accessed.

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 .

End User Data

- E2BN does not centrally retain logs of end users or their internet activity
- Logfiles are stored on the school's Protex instance.
- For the purpose of The Data Protection Act and GDPR this data is the school's responsibility.
- The log files are typically stored for a period of 6 to 9 months then older logs are overwritten as new logfiles are generated.

System Admin - Self-managed systems

(Self-managed system are deployments of Protex where system management has been delegated to School or Trust staff)

Protex admins' username and email address along with a record of every change made to the local URL lists and profiles, are held on the school's Protex instance and E2BN's central control server. E2BN retains this data for 20 years for safeguarding, auditing and technical reasons. When a school admin is deleted from the school's Protex box, the username and email details are automatically deleted from the E2BN central system. However, the log of changes to whitelists and profiles made by the school admin is maintained.

System Admin - Managed Systems

(Managed systems are deployments where E2BN Protex managed the filtering system on behalf of the school or Trust)

All web requests for changes to local URL lists, profiles and blocking require the person making the request to provide a school email address. This information is retained by E2BN for safeguarding, auditing and technical reasons.

All changes made by a school's Protex admin are logged on the school's Protex instance and backed up to E2BN central system.

Data is held for 20 years

E2BN technical staff (all holders of enhanced DBS certificates and trained on GDPR and Data Protection) can only access user logfile data for the purpose of technical support.

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

Over-blocking

We have various feedback mechanisms in place to avoid over blocking.

Each blocked URL generates a page displayed to the user. This page's wording and the information returned is age related. This page includes the option for the user (or their teacher) to fill in a simple form with a request for the page to be unblocked. These requests are centrally reviewed by authorised E2BN DBS cleared personnel. Changes are made (or not) as appropriate. Where the user has provided an email address the user is notified of the change. Sites/URL/Pages that belong to a blocked category or reach the Page Value threshold for a profile can be accessed by

adding them to a "whitelist". Schools that opt for self-management can whitelist sites/pages. We will whitelist sites/pages on behalf of schools that have opted for us to manage their filtering. Whitelisting requests can be made from the blocked page (see above) or by contacting the E2BN office.

Block request

An online form is used to make requests for pages to be blocked. Again these are centrally managed with an emailed reply on the action taken.

An emergency block request can also be made phoning the E2BN office.

There is a dedicated email address for all other filtering queries.

When changes are made locally by a self-managed school or requested by a centrally managed school, we assess the change and consider if it is a change that we should "adopt" and distribute across all Protex systems. For example, an individual school may discover an unblocked games site add it to the 'onlinegames' category. A member of our team will be notified to the change, assess the site and, if it meets the criteria for a non-educational game, add it to the central Protex 'onlinegames' category. Once changed centrally all Protex systems will be updated within about 15 minutes.

Safeguarding

Changes made by a system administrator (either School or E2BN staff) are logged centrally for audit, monitoring and review purposes. We can provide details of the changes made by local system administrators upon request.

Filtering System Features

How does the filtering system meet the following principles:

Principle	Rating	Explanation
Age appropriate, differentiated filtering – includes the ability to vary filtering strength appropriate to age and role		Protex uses multiple age-related filter settings or profiles, each tailored to the specified age- group including one for Adults/Staff. The profiles available include: Primary, Middle, Secondary, 6th Form, and Staff. Each of the pupil profiles is available with or without access to 'social' sites such as Facebook, YouTube and Twitter and with or without access to games sites
		Schools that opt for self-management can apply our default profiles and customise the strength of the filter for groups, classes and even individuals. All schools can whitelist sites and pages from otherwise blocked categories (except where the site or page is listed on the IWF, Home Office or

	PIPCU lists or is categorised as 'illegal hacking',
	'Pornography', 'Illegal Drugs', or 'Proxy'.
	Similarly schools can request the blocking of
	particular sites or pages.
Circumvention – the extent and ability	E2BN Protex subscribes to various commercial
to identify and manage technologies	lists that list Proxy IPs, VPN application URLs.
and techniques used to circumvent	E2BN Protex also its own audits into web
convices and DNS over HTTPS	nitering avoidance services that are being
services and DNS over HTTPS.	methods continue to be blocked as they
	become apparent. With the Protex service
	(which includes a firewall as well as web
	filtering) ports that may be used in an attempt
	to bypass the web filtering are blocked at the
	firewall level.
Control - has the ability and ease of	Schools can modify the lists and create specific
use that allows schools to control the	collections of list categories for their users via a
filter themselves to permit or deny	simple to use web-interface (except where the
	Site of page is listed of the IWF, nome office of PIPCI lists or is categorised as 'Illegal Hacking'
	'Pornogranhy' 'Illegal Drugs' or 'Proxy')
	The administration portal is accessible anytime,
	anywhere via the web interface.
Contextual Content Filters – in	In addition to URL or IP based filtering Protex
addition to URL or IP based filtering,	provides Contextual Content Filtering.
content is analysed as it is streamed to	If a page is not blocked by its LIPL, the default is
the user and blocked. For example	to check its content by comparing it against our
being able to contextually analyse text	phraselists: the HTML of the page is scanned for
on a page and dynamically filter	a variety of phrases and patterns.
	There are two types of phrases: those that are
	weighted and those that are banned.
	As a page is requested all words and phrases on
	a web nage are compared to the phraselist
	A page containing a phrase from the banned list
	will be blocked.
	For all other pages a negative or positive value
	assigned to the phrases. The values of the words
	and phrases found on a page are totalled to give
	the page a Page Value. Each profile has a Page
	Value Threshold set to reflect the age group of
	the profile. If a page exceeds the Page Value
	Threshold for the user's profile the page is
	blocked.
	Because Protex applies positive and negative
	values to words in the phraselist Protex not only

	assesses the user context i.e. the age of the user but also examines the context of the content. A simple example would be the word 'breast'. The word 'breast' would add to a page's weighting potentially causing the page to be blocked. However, 'breast' used in association with 'robin red', 'plumage', 'plate' or 'cancer' would reduce the page's weighting.
Filtering Policy – the filtering provider publishes a rationale that details their approach to filtering with classification and categorisation as well as over blocking	E2BN Protex provides details of its policy and approaches to filtering on the website. These policies have been developed in conjunction with users and local authorities over the past 12 years. The E2BN Protex filtering policy can be seen at: http://protex.e2bn.org/cms/policy.html
Group / Multi-site Management – the ability for deployment of central policy and central oversight or dashboard	Protex is a managed filtering service with centralised policy management specifically designed for schools. Schools can opt for a fully managed service or self-management. Multi-site management of a group of schools, federation or trust from a single interface is available. As a managed service, we also will make changes across any groups of schools, federations or trusts on request.
Identification - the filtering system should have the ability to identify users	Protex systems log the user associated with every request in two ways. Where Active Directory has been implemented on the schools system, all activity is logged against the users AD identity. On school systems where AD integration is not desirable or possible users can be identified by IP Address if the school has a suitable identification system in place. It is also possible to insert the user's identity in the logs without using AD integration.
Mobile and App content – mobile and app content is often delivered in entirely different mechanisms from that delivered through a traditional web browser. To what extent does the filter system block inappropriate content via mobile and app technologies (beyond typical web browser delivered content)	E2BN Protex is device agnostic: any device making requests using standard web protocols (including http and https) and being directed to the Protex filtering server will be filtered. NOTE: Applications using proprietary protocols and/or proprietary encryption methods cannot be content filtered by this or any other filtering engine. Devices must be accessing content via the school network. Content such as phones and BYOD accessing the Internet via the device's 2G or 4G service cannot be filtered.

Multiple language support – the ability for the system to manage relevant languages Network level - filtering should be applied at 'network level' i.e. not reliant on any software on user devices whilst at school (recognising that device configuration/software may be required for filtering beyond	The Protex filtering engine itself can handle any well formatted URL and content checking in multiple languages. Currently Protex supports content checking of English language text with some support for foreign languages. Yes. All web-traffic is filtered when directed via the Protex filters. No client software is required.
the school infrastructure) Remote devices – with many children and staff working remotely, the ability for devices (school and/or personal) to receive school based filtering to a similar quality to that expected in school	This feature will be available in later in the year.
Reporting mechanism – the ability to report inappropriate content for access or blocking	Managed system users complete our online forms to report sites that are not blocked and to make requests for blocked sites to be unblocked. Users can also report sites for an 'emergency' block by telephone during office hours. Local system users manage blocking and unblocking via the system admin interface in line with the school's own policies and procedures. All such changes are logged centrally providing a complete record of who, when and what changes are made
Reports – the system offers clear historical information on the websites visited by your users	All web requests, search terms and page visits are logged by user and time stamped. The system produces a range of standard reports on activity – for example for the most visited sites, most blocked categories, most blocked user/ group, most frequent search terms, activity by user or group etc. Additional bespoke reports can also be produced. All access to the admin interface is logged. Logs are typically held for between 6 & 9 months depending on volume.

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

1

E2BN offer e-safety training for staff and parents. E2BN has an area its website dedicated to e-safety (https://www.e2bn.org/cms/e-safety/e-safety)

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

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.

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