Appropriate Filtering for Education settings

June 2017

Provider Checklist Responses

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. Children should not be able to access harmful or inappropriate material from the school or colleges 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 (enquiries@saferinternet.org.uk), 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.

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Filtering System	Untangle NG Firewall
Date of assessment	10 Aug 2017

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		Integrates categorization from Zvelo, an IWF member
• and block access to illegal Child Abuse Images (by actively implementing the IWF CAIC list)		Block with the Web Filter app "Child Abuse Images" category
• Integrate the 'the police assessed list of unlawful terrorist content, produced on behalf of the Home Office'		Zvelo is actively working with CTIRU to include the list; Untangle will update once this is completed

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.		Categorized as a subset of "Hate Speech"
Drugs / Substance abuse	displays or promotes the illegal use of drugs or substances		Categorized as as subset of "Illegal Drugs"
Extremism	promotes terrorism and terrorist ideologies, violence or intolerance		Categorized as a subset of "Hate Speech"
Malware / Hacking	promotes the compromising of systems including anonymous browsing and other filter bypass tools as well as sites hosting malicious content		Covered under the categories "Anonymizer", "Hacking", "Malware Call-Home", "Malware Distribution Point", "Phishing/Fraud", "Spyware & Questionable Software"
Pornography	displays sexual acts or explicit images		Categorized under "Pornography"
Piracy and copyright theft	includes illegal provision of copyrighted material		Categorized under "Piracy & Copyright Theft"

Self Harm	promotes or displays deliberate self harm (including suicide and eating disorders)		Categorized under “Violence” and “Self-Help and Addiction”
Violence	Displays or promotes the use of physical force intended to hurt or kill		Categorized under “Violence”

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

Untangle system admins can configure the Web Filter app to flag and/or block URLs in 141 categories based on the Zvelo classification index. Individual URLs can be added to the “Blocked SItes” list, while default and custom Rules allow fine-grained blocking and/or flagging based on a whole host of criteria including file extension type, mime type, server country, application control risk and productivity classification. Web Filter enables categorization of over 500 million URLs in 200 languages.

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

IT administrators using Untangle NG Firewall can configure which categories and/or URLs to block, flag or allow. They have a customizable dashboard, extensive real-time reporting capabilities and fine-grained controls to monitor network traffic and remediate when over-blocking is a concern. Block pages can be configured to allow temporarily or permanent override for specific users, groups or by policy; overrides are recorded and can be audited through the Reports app.

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		Policy Manager app allows administrators to create policies based on user age, role, time of day and many other criteria

• Control - has the ability and ease of use that allows schools to control the filter themselves to permit or deny access to specific content		Educational establishments have full control of their Untangle NG Firewall system
• Filtering Policy – the filtering provider publishes a rationale that details their approach to filtering with classification and categorisation as well as over blocking		Educational establishments have full control of their Untangle NG Firewall system and are able to publish their own custom rationale that supports their own unique circumstances.
• Identification - the filtering system should have the ability to identify users		Directory Connector app integrates with directory services such as Active Directory and RADIUS; an internal user database can also be used, and usernames can be assigned to hosts/devices. Captive Portal app can be deployed to capture users on non-institution managed devices.
• 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)		SSL Inspector and Application Control app provide fine-grained control of up to 1,586 mobile and app technologies (v12.2.1+)
• Multiple language support – the ability for the system to manage relevant languages		Web Filter and Application Control support content in 200 languages. NG Firewall can be configured in any one of 38 languages, and block pages can be customized in any language.

• Network level - filtering should be applied at 'network level' ie, not reliant on any software on user devices		Runs as the network gateway router or in-line with the gateway router. All network traffic is inspected at layer 7 using deep packet inspection.
• Reporting mechanism – the ability to report inappropriate content for access or blocking		Dashboard and Reports app including customizable Alerts provides real-time and historical reporting at a very fine-grained level
• Reports – the system offers clear historical information on the websites visited by your users		Historical information on user online activity is available through a comprehensive Reporting app with numerous canned reports, plus the ability to create unlimited custom reports.

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

Untangle works directly with educational institutions to understand and meet their needs. Untangle provides guidance through case studies, white papers, infographics, wiki and forum materials. Official Untangle partners also provide significant expertise in the markets they serve. Zvelo, the URL categorization technology provider to Untangle, is a member of IWF and works closely with the National Center for Missing and Exploited Children (US).

[1] 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 self-certification 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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Date	11 August 2017
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