TECH COORDINATOR MEETING

Everything (almost) you've wanted to know but were afraid to ask!

Steve Nasdeo Director of Diocesan and Catholic Schools Technologies

Agenda Items

Content filtering

- What is it and what to do if you get a file
- Document, document, document
- Bark app
- DOJ Legal Hold
 - New domains need to set it up
 - This is a requirement for all non-cdeducation.org domains
- Bandwidth monitoring
 - Weekly reports
 - Individual schools can request a report

Content Filtering

- What is it?
 - Web content filtering is the practice of blocking access to web content that may be deemed offensive, inappropriate, or even dangerous.
- Why do we have it?
 - Children Internet Protect Act (CIPA) requires "a technology protection measure with respect to any of its computers with Internet access that protects against access through such computers to visual depictions that are obscene, child pornography, or harmful to minors^{"1} and must be deployed "during any use of such computers by minors^{"2}

2. TITLE XVII—CHILDREN'S INTERNET PROTECTION ACT, Subtitle A—Federal Funding for Educational Institution Computers, Section 3601, (A)(i), (ii)

How does it know what to block?

- Sites schools have asked to be blocked
- Sites are defined by Categories
 - Forcepoint Master Database
 - We are only reporting two categories to principals:
 - Adult Content
 - Sex
 - There are a total of 90 different categories
 - 54 different school blocked websites
 - 36 blocked categories

Categories that get blocked

Abortion Adult Content Alcohol_and_Tobacco Alternative Journals Blogs_and_Personal_Sites Bot_Networks Compromised_Websites Elevated_Exposure Gambling Games Gay_or_Lesbian_or_Bisexual_Interest Hacking Illegal_or_Questionable Internet Auctions Intolerance Lingerie_and_Swimsuit Malicious_Web_Sites Marijuana

Newly_Registered_Websites/SITE_REPUTATION_HARMFUL Non_Traditional_Religions override-block Parked_Domain Pay to Surf Peer_to_Peer_File_Sharing Personals and Dating Phishing and Other Frauds Potentially Unwanted Software Proxy_Avoidance Sex Sport Hunting and Gun Clubs Unauthorized Mobile Marketplaces Uncategorized/SITE_REPUTATION_HARMFUL Violence Weapons Web and Email Spam

What to do if you get an email from me

- Try to determine who tried to access the sites on your list
- If you can figure out who tried to access the site(s), consequences (for now) are up to the principal
- How to possibly determine what device the person used:
 - Determine the Media Access Control (MAC) Address of the device
 - The MAC address is a unique number assigned by the manufacturer of the Network Interface controller (NIC) inside of the computer, phone or tablet
 - To possibly find the MAC address, access the DHCP file on your network
 - DHCP stands for dynamic host control protocol
 - It assigns IP addresses to devices when the device connects to your network
 - Typically, the DHCP file will have the IP address and the MAC address next to each other along with the device name (if the device is named)
 - If you are using GoGuardian (or some other type of MDM application):
 - When you registered the device, it should capture the MAC address
 - For those schools who contracted with META to support their DHCP networks, open a ticket with them, giving them the time and the source IP address in the file.
 - If you have more than 1 source IP address, you will need all of the information (times and source IP addresses) when you open a ticket.

School DHCP pools managed by META

school	network	note
All Saints Academy	10.2.32.0/255.255.254.0	lan
All Saints Academy	172.16.32.0/255.255.255.0	teachers
All Saints Academy	192.168.32.0/255.255.255.0	BYOD/guest
Bishop Fenwick-St. Nicholas	10.56.16.0/255.255.252.0	lan
Bishop Hartley	10.2.12.0/255.255.255.0	security camera
Bishop Watterson	10.2.16.0/255.255.240.0	lan
Bishop Watterson	192.168.8.0/255.255.255.0	admin
Bishop Watterson	10.114.248.0/255.255.254.0	teachers
Bishop Watterson	10.114.240.0/255.255.248.0	student
Bishop Watterson	10.114.250.0/255.255.254.0	BYOD/guest
Blessed Sacrament	192.168.10.0/255.255.254.0	lan
Blessed Sacrament	192.168.12.0/255.255.254.0	additional lan
Fisher Catholic	10.108.249.0/255.255.255.0	BYOD/guest
Fisher Catholic	192.168.20.0/255.255.252.0	BYOD/guest
Holy Spirit	10.2.76.0/255.255.254.0	BYOD/guest
Holy Trinity	10.27.9.0/255.255.255.0	lan
Immaculate Conception (Dennison)	10.54.4.0/255.255.252.0	lan
St. Andrew	10.2.81.0/255.255.255.0	BYOD/guest
St. Anthony	192.168.27.0/255.255.255.0	BYOD/guest
St. Bernadette	192.168.4.0/255.255.255.0	BYOD/guest
St. Catharine	192.168.28.0/255.255.255.0	BYOD/guest
St. James the Less	10.2.13.0/255.255.255.0	lan
St. James the Less	10.108.232.0/255.255.252.0	student
St. James the Less	10.2.86.0/255.255.255.0	BYOD/guest

school	network	note
St. Mary (Lancaster)	192.168.2.0/255.255.255.0	lan
St. Mary (Lancaster)	192.168.3.0/255.255.255.0	additional lan
St. Mary (Lancaster)	10.108.247.0/255.255.255.0	BYOD/guest
St. Mary (Marion)	10.2.43.0/255.255.255.0	lan
St. Mary Magdalene	10.2.58.0/255.255.254.0	main hall
St. Mary Magdalene	10.2.39.0/255.255.255.0	raymond hall
St. Mary Magdalene	10.2.79.0/255.255.255.0	preschool
St. Michael	10.2.10.0/255.255.254.0	BYOD/guest
St. Michael	10.2.75.0/255.255.255.0	speakers
St. Rose	10.6.254.0/255.255.255.0	lan
St. Timothy	10.2.90.0/255.255.254.0	lan
St. Vincent de Paul	10.2.80.0/255.255.255.0	BYOD/guest
Sts. Peter and Paul	10.17.1.0/255.255.255.0	lan
Sts. Peter and Paul	10.17.2.0/255.255.254.0	student
Trinity	10.2.26.0/255.255.255.0	lan
Trinity	10.2.82.0/255.255.254.0	additional lan
Trinity	10.2.78.0/255.255.255.0	BYOD/guest
Tuscarawas Central Catholic ES	10.54.0.0/255.255.252.0	lan
Tuscarawas Central Catholic ES	192.168.36.0/255.255.255.0	BYOD/guest
Tuscarawas Central Catholic HS	10.54.8.0/255.255.252.0	lan
Tuscarawas Central Catholic HS	10.106.4.0/255.255.254.0	private
Tuscarawas Central Catholic HS	10.106.2.0/255.255.254.0	BYOD/guest

Information in the file

time 💌	school 🔹	profile	category	source	destination	host
2020-09-23.00:00:02	3ishopHartleyHS	BishopHartleyHS	Potentially_Unwanted_Software	10.2.111.220	183.131.7.100	sdk.open.phone.igexin.com
2020-09-23.00:00:07	StMatthewGahanna	StMatthewGahanna	Games	10.2.69.231	151.139.241.4	onlinecheck.wildtangent.com
2020-09-23.00:00:07	StMatthewGahanna	StMatthewGahanna	Games	10.2.69.231	151.139.241.4	onlinecheck.wildtangent.com
2020-09-23.00:00:12	BishopFlaget	BishopFlaget	Games	10.104.0.72	151.139.241.4	onlinecheck.wildtangent.com
2020-09-23.00:00:12	BishopFlaget	BishopFlaget	Games	10.104.0.72	151.139.241.4	onlinecheck.wildtangent.com

Time – is shown as a 24 hour clock

Category – either the school's block list or from the Forcepoint database

Source – the IP address of the device that attempted to access the website

Got the MAC address – Now what?

- Once you have found out the MAC address, you're probably thinking so what the heck is this and how does it help me?
 - Take the MAC address and put it into this website <u>https://maclookup.app/</u>
 - This website will tell you who the manufacturer of the Network Interface Controller (NIC) of the device
 - For example, you might find that the MAC address for a device is 78:31:c1:be:d7:9c
 - According to the above URL, that MAC address is assigned to an Apple device



Now what.....continued

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Big deal, now how do I find that device?

- Now comes the hard part, finding the device and who was on it at the time of the infraction
- One way to find the device is to initiate what I like to call the SCREAM TEST
 - Basically, once you find the MAC address, open a ticket with META to block that device from accessing your internet.
 - Once the person who owns, or is trying to use, the device complains that they can't get to the internet, you have just discovered the device and the user!
- If you use GoGuardian or some other MDM
 - When you register the device it should have the MAC address loaded as well
- Going forward
 - Recommend that you name your devices as the name should show up in the DHCP file next to the IP address
 - This is also a good business practice for asset inventory

Adam/ Steve,

As per the attached link, Bark is free for schools.

https://help.bark.us/en/articles/2740 925-faqs-bark-forschools#:~:text=What%20is%20Bark% 20for%20Schools,Chrome%2C%20Chr omebook%20and%20DNS%20filter.

Bark sends me weekly a Bulletin on the activities of all my students.

Any Critical issues are sent to me immediately.

The best part is that I don't need to get into all the reports if I don't want to. All I need to do is click on "issues found" and it takes me directly to the next screen and allows me to click on what I want to review. EASY!

bark 7



THIS WEEK ON BARK

225 ACTIVITIES ANALYZED



Туре	Total Issues
Sexual Content	1
Depression	1
Violence	1
Self-Harm or Suicidal Content	1



The report allows you to drill down into all your students and organizations.



The report allows you to drill down into all your students and organizations.

bark 7

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Student	Total Issues
Nicholas Emmert	5
Mary Claire Williams	1

Туре	Total Issues
Sexual Content	4
Cyberbullying	1
Depression	1
Self-Harm or Suicidal Content	1





to review.



Sexual Content

Reviewed by Bill Noll on September 4, 2020 at 3:33pm



boob swish - running fat man | Meme Generator After clicking on the student's name, it takes you to the actual website or report that the student accessed or saved. It then logs you as reviewing the warning. I reviewed this the same day the student saved it, and then talked to him before he went home.

bark 7		Bill No	# B ~
N	Nicholas Emmert nemmert@htspacers.org /Students/2022 Graduation Year & Saved a Photo on September 8, 2020 at 11:32am Cyberbullying Reviewed by Bill Noll on September 18, 2020 at 10:57am	 ➡ Share with Reviewer ➡ Share with Parents ➡ Review later 	
	<image/>	Sep 8, 11:32 am	s an e l up ar bullyir this fil

Here is an example that BARK picked up and notified me as cyber bullying when a student saved this file on his computer.

DOJ Legal Hold - eDiscovery

- Any school that uses their own domain is required to set up eDiscovery
 - You must save
 - All emails
 - All documents
 - All chats

Bandwidth Monitoring

- With the introduction of Digital Academy, there was initial concerns about adequate bandwidth at each of the schools
 - I get a weekly report of the previous week's bandwidth utilization
 - Overall
 - Upstream aggregate
 - Downstream aggregate
 - Any school can request to get a report for their school
 - Send me an email with the timeframe you want reported
 - The report will show 1 minute time slices of data, so the report will be very large depending upon the timeframe requested

Bandwidth Monitoring - Downstream



PRTG Network Monitor 20.3.61.1649

11/2/2020 12:24:37 AM - 1 h Average - ID 23788

Bandwidth Monitoring - Upstream





