ALABAMA STATE BOARD OF EDUCATION
ELEMENTARY/SECONDARY EDUCATION
WORK SESSION
WEDNESDAY, NOVEMBER 10, 2021, 11 A.M. OR IMMEDIATELY FOLLOWING THE ALABAMA STATE BOARD OF EDUCATION MEETING
PLAZA 103 GORDON PERSONS BUILDING
MONTGOMERY, ALABAMA 36130-2101

<u>AGENDA</u>

1. Updates from State Superintendent
   a. Computer Science Overview/Update
   b. Cybersecurity in Local School Systems

2. Board Members Questions

3. Alabama State Board of Education K-12 Meeting and Work Session Dates for 2022

4. Adopt New *Alabama Administrative Code* Rule 290-010-010-.15, Pertaining to Electronic Records Policy

5. Resolution to Authorize Review of an Educator Preparation Program, Jacksonville State University

6. Resolution in Recognition of Brewton Elementary School, Brewton City School System, 2021 Blue Ribbon School, State School Board District One

7. Resolution in Recognition of Orange Beach Elementary School, Baldwin County School System, 2021 Blue Ribbon School, State School Board District One

8. Resolution in Recognition of Mt. Laurel Elementary School, Shelby County School System, 2021 Blue Ribbon School, State School Board District Three

9. Resolution in Recognition of Hall Kent Elementary School, Homewood City School System, 2021 Blue Ribbon School, State School Board District Four

10. Resolution in Recognition of Macmillan International Academy, Montgomery County School System, 2021 Blue Ribbon School, State School Board District Five

11. Resolution in Recognition of December 6-12, 2021, as "Computer Science Education Week" in Alabama Schools

12. Alabama State Board of Education Resolution Declaring Importance of Local Board Autonomy Related to Certain Individual Health and Safety Decisions

13. Resolution in Recognition of Selma City School System's Alabama Performance Excellence Program Award

14. Work Force Council Presentation - Tim McCartney, Allen Harris, Nick Moore

Alabama Computer Science Updates

November 2021

CS4Alabama

GOOD NEWS!
It is official!
9 for 9

CS4Alabama

Track CS Data & Policy Efforts

Students Enrolled in CS Courses

Legend:
- Students in Dual Enrollment CS Courses
- Students in High-Quality CS Courses

2021 - 2022: 431 / 35,248 — 35,679

2020 - 2021: 396 / 17,775 — 18,171
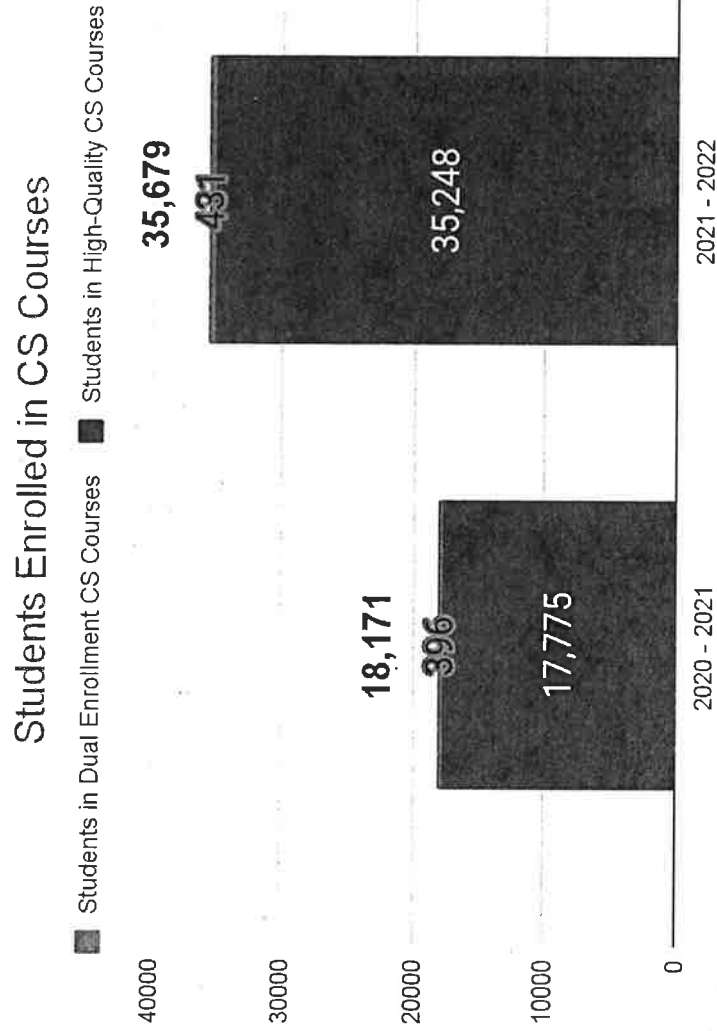
Y-axis: 0, 10000, 20000, 30000, 40000

CS4Alabama

CS Course Enrollment

There was a **96%** increase in CS student enrollment from 2020-2021 to 2021-2022.

648

Alabama CS Teachers

307

Began Implementing CS as a result of attending High-Quality Professional Learning during summer of 2021.

153

Already taught CS but attended High-Quality Professional Learning during summer of 2021.
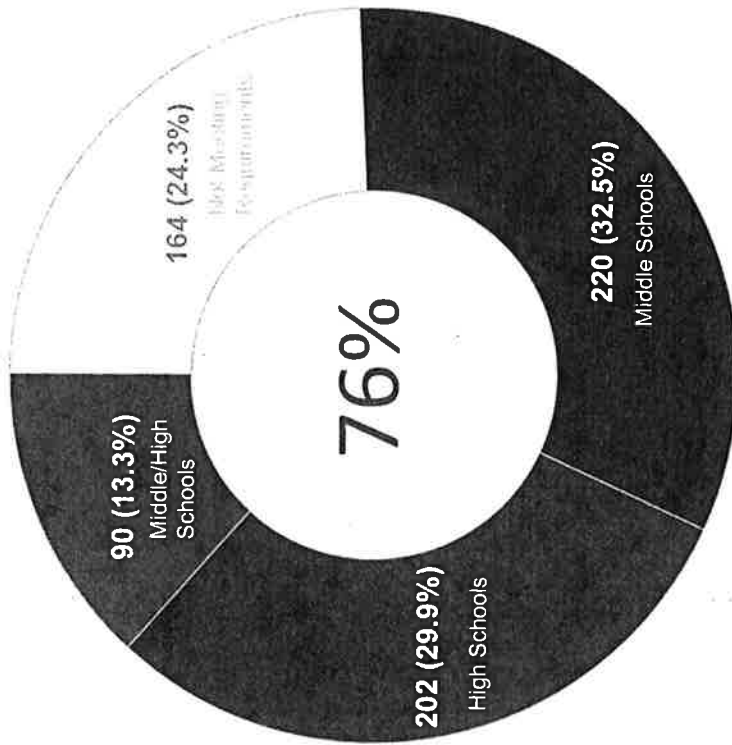
CS4Alabama

CS Teachers

There is an increase of **207** Computer Science Teachers in Alabama compared to 2020-2021.

Alabama Schools Meeting CS Requirements 2021-2022

164 (24.3%) Not Meeting Requirements

220 (32.5%) Middle Schools

202 (29.9%) High Schools

90 (13.3%) Middle/High Schools

76%

CS4Alabama

CS in Schools

76%

of Middle and High Schools met CS Legislation requirements in 2021-2022.
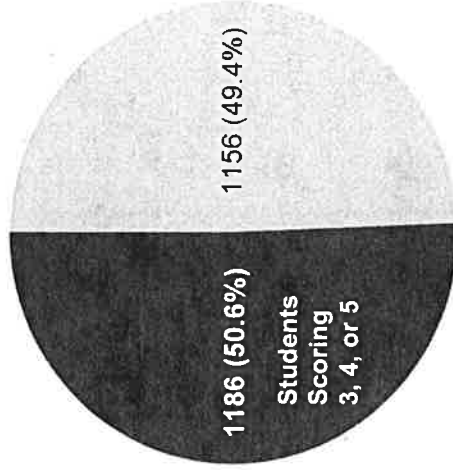
CS PD Providers

CS4Alabama

High-Quality Professional Learning Activity from State Approved Providers.

PD Provider	Teachers Trained in 2021
A+ College Ready	630
ECS4Alabama	43
CS Makers	16
PACS (Pathways for Alabama Computer Science)	42
Project Lead the Way	35
College Board APSI Training	10

CS4Alabama

CS AP
Exam Data

Results from Computer Science AP CSA and AP CS Principles Exams.

Spring 2020 CS AP Results

Total of Number
of Exams: **2342**

1156 (49.4%)

1186 (50.6%)
**Students
Scoring
3, 4, or 5**

Spring 2021 CS AP Results

Total of Number
of Exams: **2045**

895 (43.8%)

1150 (56.2%)
**Students
Scoring
3, 4, or 5**

CS4Alabama
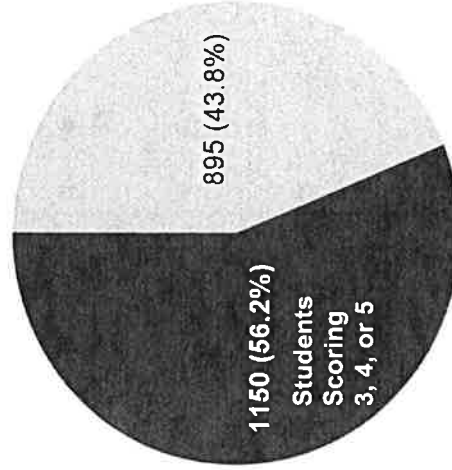
2021 State of Computer Science Education Report

Percentage of Public High Schools Offering Foundational Computer Science

Access by School Year

- 2017–2018: 39%
- 2018–2019: 49%
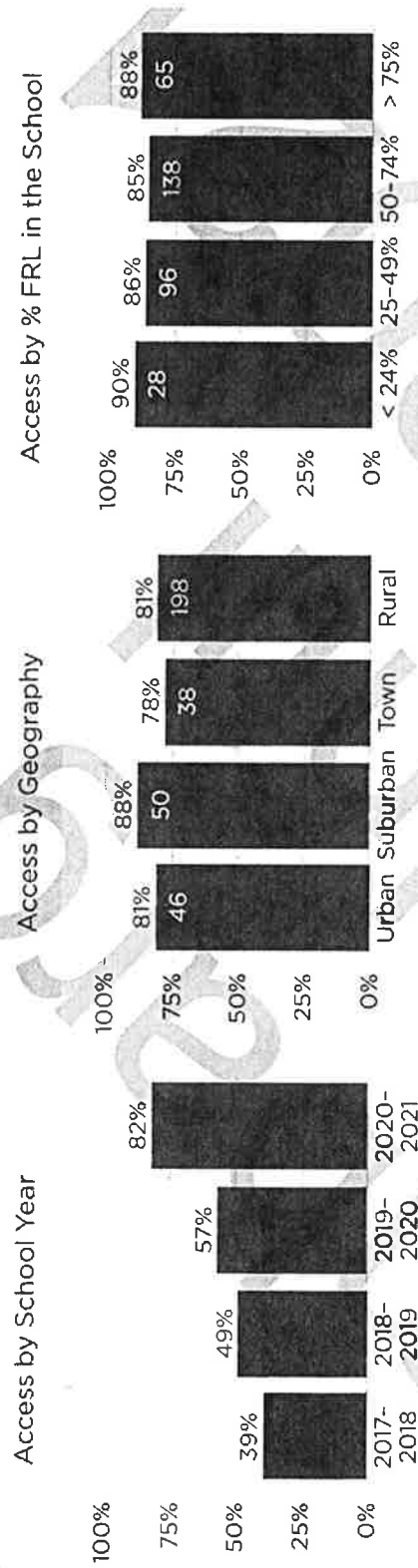- 2019–2020: 57%
- 2020–2021: 82%

(Y-axis: 0%, 25%, 50%, 75%, 100%)

Access by Geography

- Urban: 81% (46)
- Suburban: 88% (50)
- Town: 78% (38)
- Rural: 81% (198)

(Y-axis: 0%, 25%, 50%, 75%, 100%)

Access by % FRL in the School

- < 24%: 90% (28)
- 25–49%: 86% (96)
- 50–74%: 85% (138)
- > 75%: 88% (65)

(Y-axis: 0%, 25%, 50%, 75%, 100%)

Data provided primarily by the State Department of Education, based on 407 schools with high school grades. See Appendix 2 for data sources and descriptions. Numbers inside the bars represent the total number of public high schools offering computer science in that category.
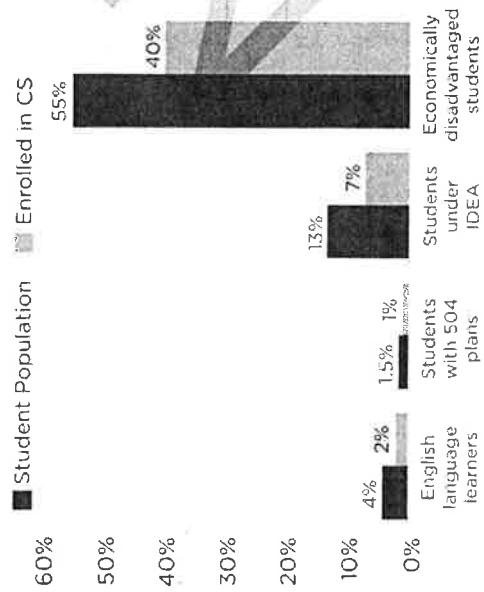
90% of AL high school students attend a school that offers computer science, but only 4.5% of students are enrolled in a foundational computer science course. 38% of students enrolled in computer science courses are female. Students of all racial and ethnic groups are similarly likely to attend a school that offers computer science.
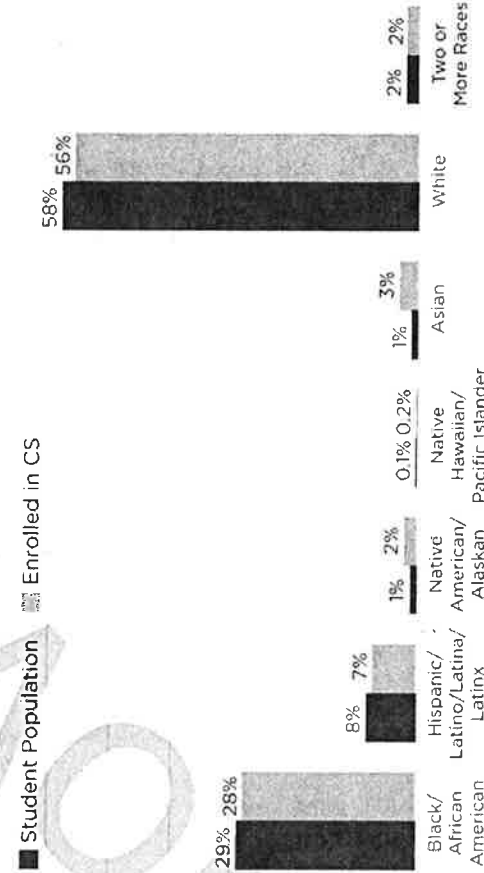
CS4Alabama

2021 State of Computer Science Education Report

Participation in Foundational High School Computer Science Courses by Demographic

CS Enrollment by Subgroup

■ Student Population ▨ Enrolled in CS

	Student Population	Enrolled in CS
English language learners	4%	2%
Students with 504 plans	1.5%	1%
Students under IDEA	13%	7%
Economically disadvantaged students	55%	40%

CS Enrollment by Race/Ethnicity

■ Student Population ▨ Enrolled in CS

|	Student Population	Enrolled in CS
Black/African American	29%	28%
Hispanic/Latino/Latina/Latinx	8%	7%
Native American/Alaskan	1%	2%
Native Hawaiian/Pacific Islander	0.1%	0.2%
Asian	1%	3%
White	58%	56%
Two or More Races	2%	2%

Some students may be represented in multiple race/ethnicity columns as the state reports race and ethnicity separately.

CS4Alabama

2021 Alabama Governor's App Challenge
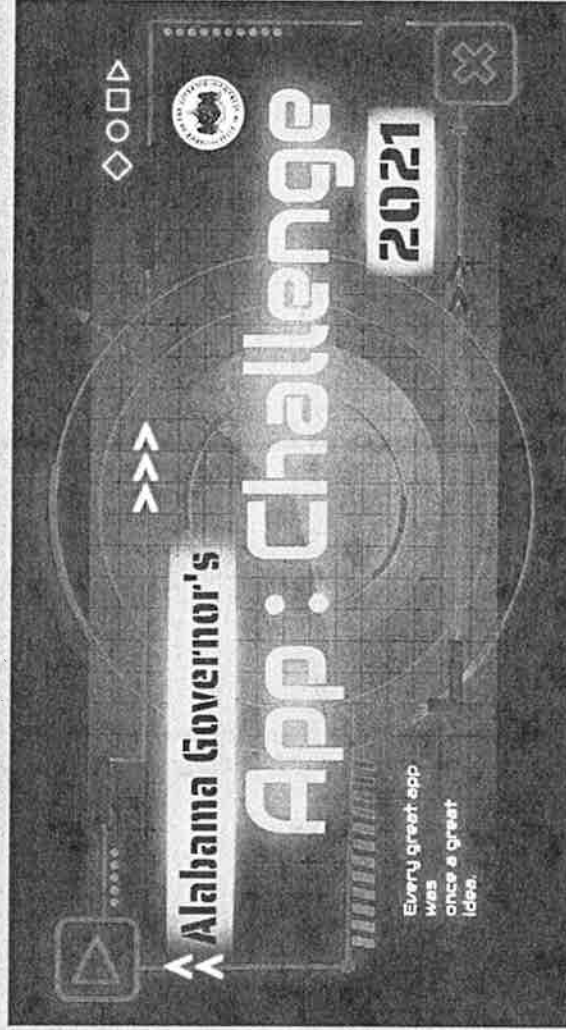
SCAN ME

January 14, 2022 - All teams must submit their app at https://bit.ly/2021AppChallengeReg.

Join the Celebration!

CS Education Week | December 6-12

#CSEverywhere

Questions: cs4alabama@alsde.edu

Thank you for your continued support of Alabama's CS expansion efforts.

CS4Alabama

CYBERSECURITY IN LOCAL SCHOOL SYSTEMS

Alabama
Supercomputer
Authority

Advancing Alabama through Technology

ASA

STATEWIDE NETWORK · EDUCATION · HIGH PERFORMANCE COMPUTING · CYBERSECURITY

Security Enhancements for K12
Security Operations Center (SOC)
Next Generation Firewall Deployment
DDoS Mitigation

Rick Bagwell – Network Engineering Manager

Nov 10, 2021

Alabama Supercomputer Key Security Enhancements for 2020-2021

- Dedicated K12 Security Operation Center (SOC).
  - State funded through additional appropriation

- Expanded Training for K12 Schools Faculty and Staff

- Next Generation Firewall upgrade for all ASA-Managed K12 Firewalls in the state.
  - Federally funded through CARES Act

- DDoS Mitigation

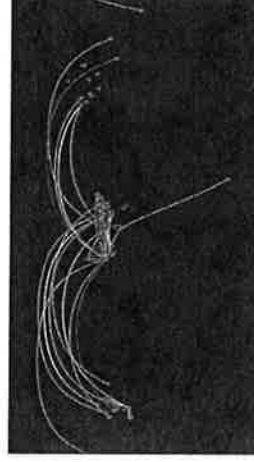www.asc.edu

Alabama K-12 SOC

Palo Alto Firewall Management

Panorama

Network Security Management
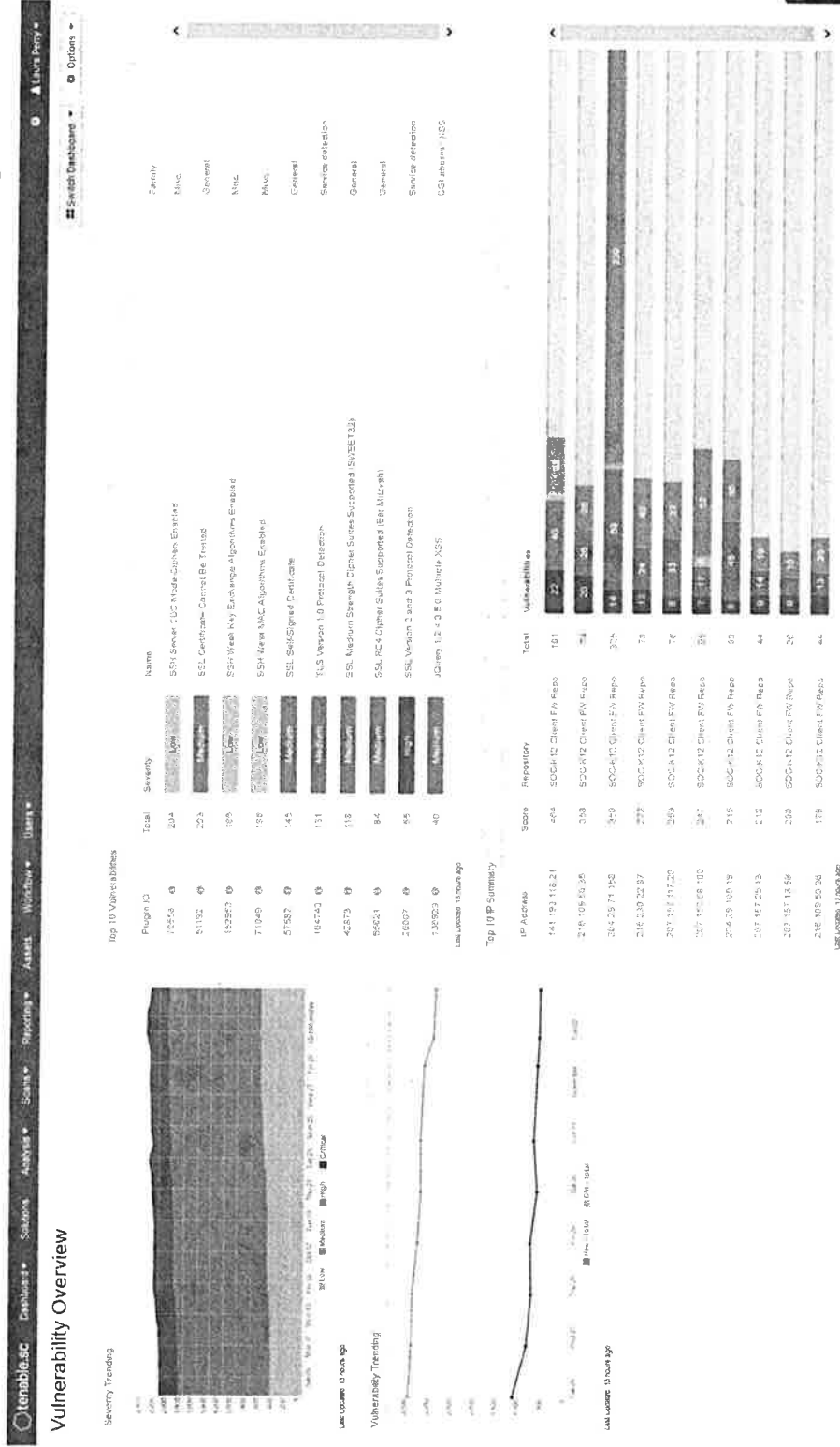
Security Information and Event Management

Secure Analytics

3

Alabama K-12 SOC

- Security Operations Center (SOC) functions

  - **Aggregates and analyses log data from 100+ K12 firewalls throughout the state in real time.**
    - 99 ASA-managed firewalls all feed into the SIEM and Panorama
    - Client-managed (or vendor-managed)firewall log data is welcomed from the other ~30 school systems

  - **Proactively scans all K12 school systems for possible externally-visible vulnerabilities at least monthly**
    - Only scan school systems that have agreed to be scanned
    - Reports provided to the school systems when any critical vulnerabilities are discovered. This includes mitigation info

  - **Recurring firewall configuration reviews**
    - Required before new Palo Altos could be installed.
    - Performed at least annually and hoping to make these reviews even more often going forward
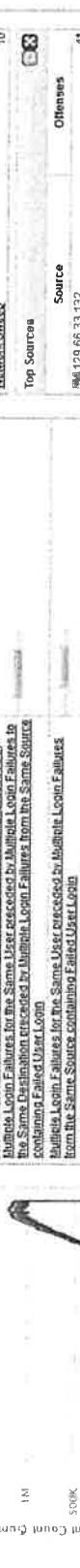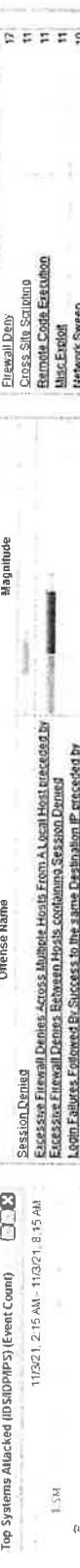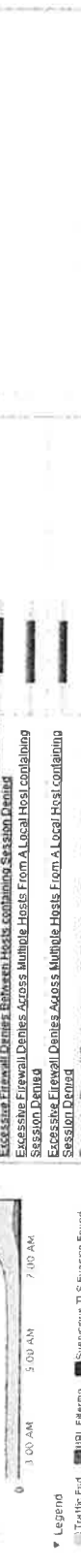
Proactive Scanning - Tenable Summary View

Laura Perry ▾

Switch Dashboard ▾ | Options ▾

Vulnerability Overview

Severity Trending

Last Updated 13 Hours Ago

Vulnerability Trending

Last Updated 13 Hours Ago

Top 10 Vulnerabilities

Plugin ID	Total	Severity	Name	Family
10556	204	Low	SSH Server CBC Mode Ciphers Enabled	Misc.
51192	225	Medium	SSL Certificate Cannot Be Trusted	General
153953	195	Low	SSH Weak Key Exchange Algorithms Enabled	Misc.
71049	188	Low	SSH Weak MAC Algorithms Enabled	Misc.
57582	145	Medium	SSL Self-Signed Certificate	General
104743	131	Medium	TLS Version 1.0 Protocol Detection	Service detection
42873	118	Medium	SSL Medium Strength Cipher Suites Supported (SWEET32)	General
65821	84	Medium	SSL RC4 Cipher Suites Supported (Bar Mitzvah)	General
20007	65	High	SSL Version 2 and 3 Protocol Detection	Service detection
136929	40	Medium	jQuery 1.2 < 3.5.0 Multiple XSS	CGI abuses : XSS

Last Updated 13 Hours Ago

Top 10 IP Summary

IP Address	Score	Repository	Total	Vulnerabilities
141.193.116.21	464	SOC-K12 Client FW Repo	161	
216.106.50.35	358	SOC-K12 Client FW Repo		
204.29.71.150	350	SOC-K12 Client FW Repo	324	
216.230.22.37	322	SOC-K12 Client FW Repo	78	
207.155.147.20	309	SOC-K12 Client FW Repo	72	
207.155.58.100	287	SOC-K12 Client FW Repo	96	
204.29.100.19	215	SOC-K12 Client FW Repo	59	
207.167.25.13	210	SOC-K12 Client FW Repo	44	
207.157.13.59	200	SOC-K12 Client FW Repo	29	
216.109.50.26	179	SOC-K12 Client FW Repo	44	

Last Updated 13 Hours Ago

Tenable Scheduled Monthly Scans

Active Scans

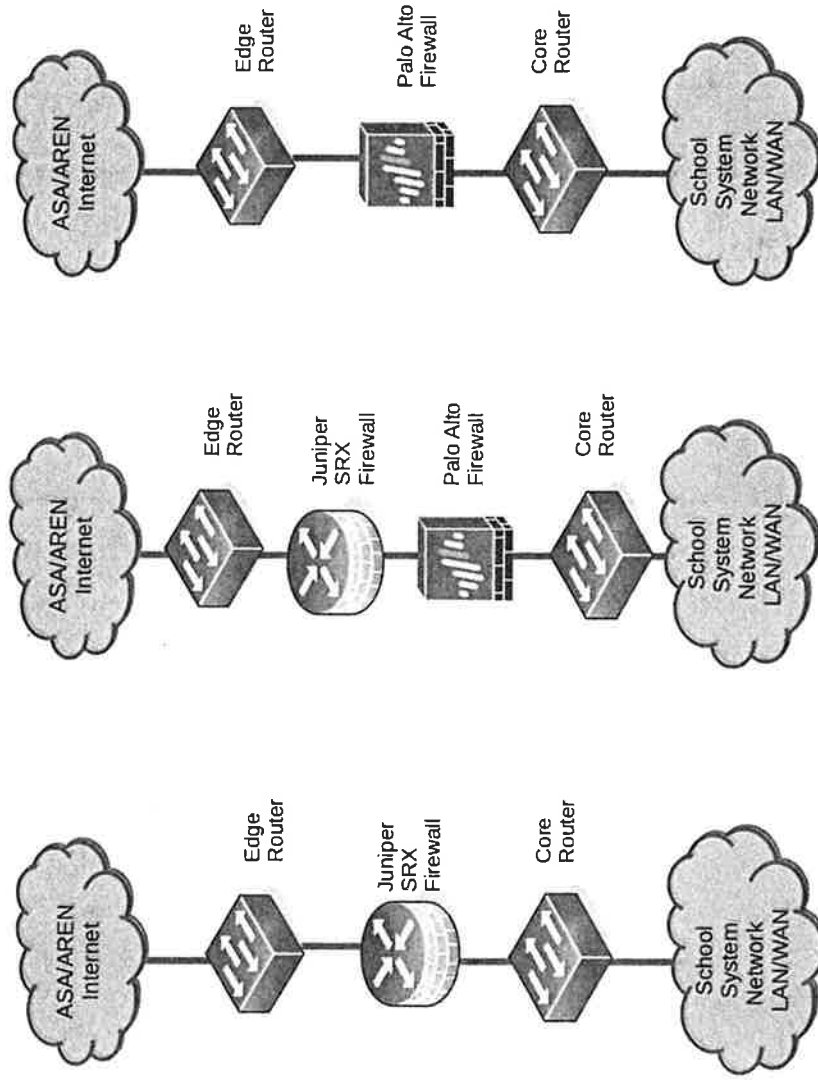| Active Scans	Agent Synchronization Jobs	Agent Scans	Scan Results	Policies	Audit Files	Credentials	Freeze Windows
Name							
		Policy		Start Time ▾			Schedule
Haleyville City Schools		Basic Network Scan		Nov 03, 2021 17:30			Every month on day 3 at 17:30 -05:00
Hartselle City Schools		Basic Network Scan		Nov 03, 2021 17:30			Every month on day 3 at 17:30 -05:00
Henry County Schools		Basic Network Scan		Nov 03, 2021 17:30			Every month on day 3 at 17:30 -05:00
Homewood City Schools		Basic Network Scan		Nov 03, 2021 18:40			Every month on day 3 at 18:40 -05:00
Walker County Schools		Basic Network Scan		Nov 03, 2021 18:40			Every month on day 3 at 18:40 -05:00
Haleyville City Schools - ASA		Basic Network Scan		Nov 03, 2021 19:45			Every month on day 3 at 19:45 -05:00
Hartselle City Schools - ASA		Basic Network Scan		Nov 03, 2021 19:45			Every month on day 3 at 19:45 -05:00
Henry County Schools - ASA		Basic Network Scan		Nov 03, 2021 19:45			Every month on day 3 at 19:45 -05:00
Homewood City Schools - ASA		Basic Network Scan		Nov 03, 2021 19:45			Every month on day 3 at 19:45 -05:00
Walker County Schools - ASA		Basic Network Scan		Nov 03, 2021 19:45			Every month on day 3 at 19:45 -05:00
Hoover City Schools		Basic Network Scan		Nov 04, 2021 17:30			Every month on day 4 at 17:30 -05:00
Houston County Schools		Basic Network Scan		Nov 04, 2021 17:30			Every month on day 4 at 17:30 -05:00

SIEM (JSA) Threat and Security Monitoring

Secure Analytics

Dashboard | Offenses | Threat and Security Monitoring | Assets | Reports | Admin | QCS | Reference Data Management | Threat Intelligence | Pulse | Palo Alto Networks

Show Dashboard: Threat and Security Monitoring

New Dashboard · Rename Dashboard · Delete Dashboard · Add Item... ▼

System Time: 8:14 AM

Next Refresh: 00:00:35

Default-IDS / IPS-All: Top Alarm Signatures (Event Count)

11/3/21, 2:15 AM - 11/3/21, 8:15 AM

Event Count (Sum)
1.5M
1 M
500K
0
3:00 AM   5:00 AM   7:00 AM

View in Log Activity

▼ Legend
- Traffic End
- URL Filtering
- Suspicious TLS Evasion Found
- Session Denied
- Non-RFC Compliant DNS Traffic on Port 5305253
- Remainder

Top Systems Attacked (IDS/IDP/IPS) (Event Count)

11/3/21, 2:15 AM - 11/3/21, 8:15 AM

Event Count (Sum)
1.5M
1 M
500K
0
3:00 AM   5:00 AM   7:00 AM

View in Log Activity

▼ Legend
- 56.64.46.180
- 208.67.222.222
- 208.67.220.220
- 8.8.8.8
- 129.66.20.4
- Remainder

Top Systems Sourcing Attacks (IDS/IDP/IPS) (Event Count)

11/3/21, 2:15 AM - 11/3/21, 8:15 AM

My Offenses

No results were returned for this item.

Most Severe Offenses

Offense Name	Magnitude
Excessive Firewall Denies Across Multiple Hosts From A Local Host preceded by Excessive Firewall Denies Between Hosts containing Session Denied	
Excessive Firewall Denies Across Multiple Hosts From A Local Host preceded by Excessive Firewall Denies Between Hosts containing Session Denied	
Excessive Firewall Denies Across Multiple Hosts From A Local Host containing Session Denied	
Excessive Firewall Denies Across Multiple Hosts From A Local Host containing Session Denied	
Excessive Firewall Denies Across Multiple Hosts From A Local Host containing Session Denied	

Most Recent Offenses

Offense Name	Magnitude
Session Denied	
Excessive Firewall Denies Across Multiple Hosts From A Local Host preceded by Excessive Firewall Denies Between Hosts containing Session Denied	
Login Failures Followed By Success to the same Destination IP preceded by Multiple Login Failures for the Same User preceded by Multiple Login Failures to the Same Destination preceded by Multiple Login Failures from the Same Source containing Failed User Login	
Multiple Login Failures for the Same User preceded by Multiple Login Failures from the Same Source containing Failed User Login	
Multiple Login Failures for the Same User containing Failed User Login	

Top Services Denied through Firewalls (Event Count)

11/3/21, 2:15 AM - 11/3/21, 8:15 AM

Event Count (Sum)
1.5K
1K
500
0
3:00 AM   4:00 AM   5:00 AM   6:00 AM   7:00 AM   8:00 AM

Flow Bias (Total Bytes)

There was no Time Series data for the search performed

View in Network Activity

Top Category Types

Category	Offenses
Firewall Deny	17
Cross Site Scripting	11
Remote Code Execution	11
Misc Exploit	11
Network Sweep	10

Top Sources

Source	Offenses
129.66.33.132	41
129.66.33.132	30
129.66.33.132	20
129.66.33.132	20
129.66.33.132	20

Top Local Destinations

Destination	Offenses
172.19.129.74	26
172.19.143.214	26
172.22.128.111	3
172.22.129.104	3
172.22.143.232	2

www.asc.edu

JSA Offenses

≡ Secure Analytics

Dashboard | Offenses | Log Activity | Network Activity | Assets | Reports | Admin | QOI | Reference Data Management | Threat Intelligence | Pulse | Palo Alto Networks

System Time: 8:13 AM

Offenses

Search... ▼ | Save Criteria | Actions ▼ | Print

Last Refresh: 00:00:30

My Offenses

All Offenses   View Offenses with: Select An Option:

All Offenses

By Category

Current Search Parameters:
Exclude Hidden Offenses   (Clear Filter), Exclude Closed Offenses   (Clear Filter)

By Source IP

By Destination IP

By Network

Rules

	Id	Domain	Description	Offense Type	Offense Source	Magnitude	Source IPs	Destination IPs	Users	Log Sources	Events	Flows	Start Date	Last EventFlow
	3702	Chilton County...	Excessive Fi...	Source IP	10.207.0.38		10.207.0.39	Remote (704)	N/A	Multiple (2)	1,304	0	Oct 28, 2021,...	44m 16s
	3706	Chilton County...	Excessive Fi...	Source IP	10.207.0.35		10.207.0.35	Remote (597)	N/A	Multiple (3)	983	0	Oct 28, 2021,...	19h 55m 49s
	3732	Chilton County...	Excessive Fi...	Source IP	10.215.4.54		10.215.4.54	Remote (92)	N/A	Multiple (2)	93	0	Nov 2, 2021,...	17h 31m 40s
	3731	Chilton County...	Excessive Fi...	Source IP	10.201.0.49		10.201.0.49	Remote (253)	N/A	Multiple (2)	276	0	Nov 2, 2021,...	20h 43m 54s
	3729	Chilton County...	Excessive Fi...	Source IP	10.208.0.14		10.208.0.14	Remote (184)	N/A	Multiple (2)	185	0	Nov 1, 2021,...	1d 11h 34m
	3723	Chilton County...	Excessive Fi...	Source IP	10.201.0.51		10.201.0.51	Remote (115)	N/A	Multiple (2)	118	0	Nov 1, 2021,...	1d 17h 58m
	3727	Chilton County...	Excessive Fi...	Source IP	10.207.0.63		10.207.0.63	Remote (186)	N/A	Multiple (2)	187	0	Nov 1, 2021,...	1d 22h 31m
	3730	Chilton County...	Session De...	Source IP	10.207.0.39		10.207.0.39	Remote (192)	N/A	ChiltonCo-P...	192	0	Nov 3, 2021,...	14m 25s
	3735	Pickens County...	Multiple Logi...	Source IP	129.66.3...		129.66.3...	129.66.1...	Multiple (28)	Multiple (2)	207	0	Nov 3, 2021,...	7h 31m 56s
⊙ ⊙	2899	Alabama Institu...	Avaddon Ra...	Source IP	204.29.8...		204.29.8...	Remote (2)	N/A	Multiple (2)	4	0	Oct 1, 2021,...	29d 7h 34m
	3481	Conecuh Count...	Avaddon Ra...	Source IP	10.6.8.70		10.6.8.70	185.216.3...	N/A	Multiple (2)	2	0	Oct 27, 2021,...	6d 17h 27m
⊙	3713	Etowah County...	Multiple Expl...	Destination IP	216.109...		129.66.2...	216.109...	N/A	Multiple (2)	165	0	Oct 30, 2021,...	1d 17h 52m
	3720	Eufaula City Sc...	Multiple Expl...	Destination IP	207.157...		129.66.2...	207.157...	N/A	Multiple (2)	20	0	Oct 30, 2021,...	3d 12h 46m
	3721	Eufaula City Sc...	Multiple Expl...	Destination IP	207.157		129.66.2...	207.157...	N/A	Multiple (2)	20	0	Oct 30, 2021,...	3d 12h 46m
	3722	Eufaula City Sc...	Multiple Expl...	Destination IP	207.157...		129.66.2...	207.157...	N/A	Multiple (2)	22	0	Oct 30, 2021,...	3d 12h 32m
	3728	Etowah County...	Multiple Expl...	Destination IP	216.109...		129.66.2...	216.109...	N/A	Multiple (2)	110	0	Nov 1, 2021,...	1d 17h 56m
⊙ ⊙	2901	Default Domain	Multiple Expl...	Destination IP	216.109...		129.66.2...	216.109	N/A	Multiple (2)	112	0	Oct 1, 2021,...	32d 14h 34.
⊙ ⊙	2902	Default Domain	Multiple Expl...	Destination IP	216.109...		129.66.2...	216.109	N/A	Multiple (2)	50	0	Oct 1, 2021,...	32d 13h 59.
⊙ ⊙	3428	Scottsboro City	Multiple Expl...	Destination IP	216.109...		129.66.2...	216.109...	N/A	Multiple (2)	546	0	Oct 16, 2021,...	17d 14h 36.
⊙	3437	Alexander City	Multiple Expl...	Destination IP	207.157...		129.66.2...	207.157.	N/A	Multiple (2)	117	0	Oct 19, 2021,...	14d 15h 7m
	3717	Etowah County...	Multiple Expl...	Destination IP	216.109...		129.66.2...	216.109	N/A	Multiple (2)	206	0	Oct 30, 2021,...	1d 17h 55m 6s
	3718	Etowah County...	Multiple Expl...	Destination IP	216.109...		129.66.2...	216.109	N/A	Multiple (2)	101	0	Oct 30, 2021,...	1d 17h 56m
	3710	Chilton County...	Session De...	Source IP	10.207.0.53		10.207.0.53	Remote (400)	N/A	ChiltonCo-P...	450	0	Oct 29, 2021,...	19h 27m 4s
	3724	Chilton County...	Session De...	Source IP	10.207.4.1		10.207.4.1	Remote (306)	N/A	ChiltonCo-P...	380	0	Nov 1, 2021,...	20h 38m 40s
⊙ ⊙	2593	Chilton County...	Excessive Fi...	Source IP	10.207.3...		10.207.3...	Remote (1.7.	N/A	Multiple (3)	3,095	0	Sep 27, 202...	7d 21h 39m 3s
⊙ ⊙	2631	Chilton County...	Excessive Fi...	Source IP	10.7.20.95		10.7.20.95	Remote (138)	N/A	Multiple (2)	139	0	Sep 29, 202...	35d 30m 35s
⊙ ⊙	2639	Chilton County...	Excessive Fi...	Source IP	10.7.22.36		10.7.22.36	Remote (193)	N/A	Multiple (2)	194	0	Sep 29, 202...	34d 22h 24.
⊙ ⊙	2643	Chilton County...	Excessive Fi...	Source IP	10.16.20...		10.16.20...	Remote (78)	N/A	Multiple (2)	79	0	Sep 29, 202...	34d 19h 53.
⊙ ⊙	2646	Chilton County...	Excessive Fi...	Source IP	10.209.0.19		10.209.0.19	Remote (182)	N/A	Multiple (2)	183	0	Sep 29, 202...	34d 17h 44.

Overview of the Palo Alto FW Project

□ In late Fall 2020 ASA received a funding allocation of CARES act money to upgrade managed K12 firewalls to "NextGen" firewalls.

□ ASA had been investigating possible upgrades to existing stateful inspection firewalls for over a year when this project was funded. Because of this, much of the PoC testing and overall planning had already been done.

□ Firewalls were sized to support approximately two upgrade cycles from the summer 2020 bandwidth requirements of the school systems.

□ Equipment had to be **in use** by the end of calendar 2020.

Deployment Model

10

ASA-Managed Palo Alto K12 Firewalls

- AIDB-PA
- ASFA-PA
- BibbCo-PA
- ButlerCo-PA
- ChoctawCo-PA
- CoosaCo-PA
- DaleCo-PA
- DothanCity-PA
- EufaulaCity-PA
- GenevaCo-PA
- HaleyvilleCity-PA
- I3Academy-PA
- LawrenceCo-PA
- MarionCo-PA
- MuscleShoalsCity-PA
- PickensCo-PA
- RoanokeCity-PA
- ScottsboroCity-PA
- TalladegaCo-PA
- TuscumbiaCity-PA

- AlbertvilleCity-PA
- AttallaCity-PA
- BlountCO-PA
- CalhounCo-PA
- ClarkeCo-PA
- CovingtonCo-PA
- DalevilleCity-PA
- DYS-PA
- FairfieldCity-PA
- GreeneCo-PA
- HartselleCity-PA
- JacksonvilleCity-PA
- LeeCo-PA
- MarshallCo-PA
- OneontaCity-PA
- PiedmontCity-PA
- RussellCo-PA
- SelamcIty-PA
- TallapoosaCo-PA
- WalkerCo-PA

- AlexanderCity-PA
- AuburnCity-PA
- BoazCity-PA
- ChambersCo-PA
- CoffeeCo-PA
- CrenshawCo-PA
- DallasCo-PA
- ElbaCity-PA
- FayetteCo-PA
- GreeneCo-PA
- HenryCo-PA
- JasperCity-PA
- LindenCity-PA
- MidfieldCity-PA
- OppCity-PA
- PikeCo-PA
- RussellvilleCity-PA
- SheffieldCity-PA
- TallasseeCity-PA
- WashingtonCo-PA

- AndalusiaCity-PA
- AutaugaCo-PA
- BrewtonCity-PA
- ChickasawCity-PA
- ColbertCo-PA
- CullmanCity-PA
- DekalbCo-PA
- EscambiaCo-PA
- FortPayneCity-PA
- GulfShoresCity-PA
- HoustonCo-PA
- LamarCo-PA
- LowndesCo-PA
- MonroeCo-PA
- OxfordCity-PA
- PikeRoadCity-PA
- SaralandCity-PA
- SumterCo-PA
- TarrantCity-PA
- WilcoxCo-PA

- AnnistonCity-PA
- BarbourCo-PA
- BullockCo-PA
- ChiltonCo-PA
- ConecuhCo-PA
- CullmanCo-PA
- DemopolisCity-PA
- EtowahCo-PA
- GadsdenCity-PA
- HaleCo-PA
- HuntsvilleCity-PA
- LanettCity-PA
- MarengoCo-PA
- MorganCo-PA
- PerryCo-PA
- RandolphCo-PA
- SatsumaCity-PA
- TalladegaCity-PA
- ThomasvilleCity-PA
- WinstonCo-PA

What does the new Palo Alto Firewall do for K12 ?

- Palo Altos include all the functionality of the original Cisco or Juniper firewalls with new "NextGen" features.

  - IDS/IPS Functionality
  - Threat Prevention Subscription
    - Antivirus, anti-spyware (command-and-control), and vulnerability protection
    - Built-in dynamic lists that secure network against malicious hosts
    - Ability to identify infected hosts that try to connect to malicious domains
  - URL Filtering
    - Provides the ability to not only control web-access, but how users interact with online content based on dynamic URL categories.
    - In our experience, this is not a full, direct replacement for dedicated contact filtering service, but can be a good additional tool

12

Panorama Threat Console

Panorama

Device Group: Global-DG

(severity eq critical)

All   Manual

	Generate Time	Type	Name	From Zone	To Zone	Source address	Source User	Destination address	Dynamic User Group	To Port	Application	Action	Severity
	11/03 08:06:34	spyware	ZeroAccess.Gen Command and Control Traffic	L3-outside	L3-outside	66.240.205.34		207.157.97.57		16464	unknown-udp	alert	critical
	11/03 07:57:07	vulnerability	NTPsec ntpd ctl_getitem Out-of-Bounds Read Vulnerability	L3-inside	L3-outside	10.6.4.200		173.234.29.194		123	ntp	reset-both	critical
	11/03 07:57:07	vulnerability	NTPsec ntpd ctl_getitem Out-of-Bounds Read Vulnerability	L3-inside	L3-outside	10.6.4.200		69.79.237.97		123	ntp	reset-both	critical
	11/03 07:55:14	spyware	ZeroAccess.Gen Command and Control Traffic	L3-outside	L3-outside	179.62.64.14		216.109.22.40		16464	unknown-udp	alert	critical
	11/03 07:54:14	spyware	ZeroAccess.Gen Command and Control Traffic	L3-outside	L3-outside	199.136.186.35		216.106.12.254		16464	unknown-udp	alert	critical
	11/03 07:53:16	vulnerability	NTPsec ntpd ctl_getitem Out-of-Bounds Read Vulnerability	L3-inside	L3-outside	10.111.32.132		54.154.221.90		123	ntp	drop	critical
	11/03 07:52:03	vulnerability	NTPsec ntpd ctl_getitem Out-of-Bounds Read Vulnerability	L3-inside	L3-outside	104.111.33.128		107.182.230.36		123	ntp	reset-both	critical
	11/03 07:50:23	vulnerability	NTPsec ntpd ctl_getitem Out-of-Bounds Read Vulnerability	L3-inside	L3-outside	10.4.50.9		192.155.106.155		123	ntp	reset-both	critical
	11/03 07:50:22	vulnerability	NTPsec ntpd ctl_getitem Out-of-Bounds Read Vulnerability	L3-inside	L3-outside	10.4.50.9		192.155.106.155		123	ntp	reset-both	critical
	11/03 07:50:22	vulnerability	NTPsec ntpd ctl_getitem Out-of-Bounds Read Vulnerability	L3-inside	L3-outside	10.4.50.9		173.234.29.194		123	ntp	reset-both	critical
	11/03 07:50:22	vulnerability	NTPsec ntpd ctl_getitem Out-of-Bounds Read Vulnerability	L3-inside	L3-outside	10.4.50.9		205.217.207.155		123	ntp	reset-both	critical
	11/03 07:50:21	vulnerability	NTPsec ntpd ctl_getitem Out-of-Bounds Read Vulnerability	L3-inside	L3-outside	10.66.83.176		173.234.29.243		123	ntp	reset-both	critical
	11/03 07:49:50	vulnerability	Generic Exploit Host Webpage	L3-inside	L3-outside	10.6.241.44		103.224.182.241		80	web-browsing	reset-both	critical
	11/03 07:48:37	vulnerability	NTPsec ntpd ctl_getitem Out-of-Bounds Read Vulnerability	L3-inside	L3-outside	10.60.83.176		216.205.171.162		123	ntp	reset-both	critical
	11/03 07:47:21	vulnerability	Generic Exploit Host Webpage	L3-inside	L3-outside	192.168.90.249		103.224.182.246		80	web-browsing	reset-both	critical

◄◄ ◄ | 1 2 3 4 5 6 7 8 9 10 | ► ►► | Resolve hostname | Highlight Policy Actions

Displaying logs 1–20 | 20 per page | DESC

▼ Logs
   Traffic
   Threat
   URL Filtering
   WildFire Submissions
   Data Filtering
   HIP Match
   GlobalProtect
   IP-Tag
   User-ID
   Tunnel Inspection
   Authentication
   Unified
▼ Automated Correlation Engine
   Correlation Objects
   Correlated Events
▼ App Scope
   Summary
   Change Monitor
   Threat Monitor
   Threat Map
   Network Monitor
   Traffic Map
▼ PDF Reports
   Manage PDF Summary
   User Activity Report
   SaaS Application Usage
   Report Groups
   Email Scheduler
   Manage Custom Reports
   Reports

Panorama (zoomed)

Generate Time	Type	Name	From Zone	To Zone	Source address	Source User	Destination address
11/03 08:06:04	spyware	ZeroAccess.Gen Command and Control Traffic	L3-outside	L3-outside	66.240.205.34		207.157.97.57
11/03 07:57:07	vulnerability	NTPsec ntpd ctl_getitem Out-of-Bounds Read Vulnerability	L3-inside	L3-outside	10.6.4.200		173.234.29.194
11/03 07:57:07	vulnerability	NTPsec ntpd ctl_getitem Out-of-Bounds Read Vulnerability	L3-inside	L3-outside	10.6.4.200		69.39.237.97
11/03 07:55:24	spyware	ZeroAccess.Gen Command and Control Traffic	L3-outside	L3-outside	179.62.64.14		216.109.22.40
11/03 07:54:14	spyware	ZeroAccess.Gen Command and Control Traffic	L3-outside	L3-outside	190.136.186.35		216.109.12.254
11/03 07:53:16	vulnerability	NTPsec ntpd ctl_getitem Out-of-Bounds Read Vulnerability	L3-inside	L3-outside	10.111.32.182		54.184.221.90
11/03 07:52:08	vulnerability	NTPsec ntpd ctl_getitem Out-of-Bounds Read Vulnerability	L3-inside	L3-outside	10.111.33.128		107.182.230.36
11/03 07:50:23	vulnerability	NTPsec ntpd ctl_getitem Out-of-Bounds Read Vulnerability	L3-inside	L3-outside	10.4.50.9		192.155.106.155
11/03 07:50:22	vulnerability	NTPsec ntpd ctl_getitem Out-of-Bounds Read Vulnerability	L3-inside	L3-outside	10.4.50.9		192.155.106.155

ACC Monitor Policies

Export

| Network Activity | Threat Activity | Blocked Activity | Tunnel Activity | GlobalProtect Activity | + |

Threat Activity

○ threats
Home

Time
Last Hour
09/16 08:45:00-09/16 09:44:59

Global Filters

⊞ ▶ ⊟   ☒ Clear all

Application View
◉ Risk   ○ Sanctioned State

vulnerability   11.73k

0   2.00k   4.00k   6.00k   8.00k   10.00k   12.00k   14.00k

Threat Name	ID	Severity	Threat Type	Threat Category	Count
Suspicious Abnormal HTTP Response Found	38305	low	vulnerability	protocol-anomaly	11.3k
Free Download Manager HTTP Authorization Header Buffe...	39929		vulnerability	overflow	129
Non-RFC Compliant SSL Traffic on Port 443	56112		vulnerability	protocol-anomaly	40
xvpn ftp control	55850		vulnerability	protocol-anomaly	39
SIPVicious Scanner Detection	54492		vulnerability	info-leak	38
OpenSSL SSLv2 Man-in-the-Middle Vulnerability	59268		vulnerability	code-execution	36
Microsoft Communicator INVITE Flood Denial of Service V...	31993		vulnerability	brute-force	25
Non-RFC Compliant NTP Traffic on Port 123	56473		vulnerability	protocol-anomaly	19
Microsoft Office File with Macros Detected	39154		vulnerability	code-execution	17
SIP Invalid Sent-by Address Found	37299		vulnerability	dos	11
others	others		others		32

ACC   Monitor   Policies

Commit   Config   Search   Auto Refresh   Help

3.6

Time
Last Hour
09/16 08:45:00 09/16 09:44:59

Global Filters

Clear all

Application View
Risk   Sanctioned State

Network Activity | Threat Activity | Blocked Activity | Tunnel Activity | GlobalProtect Activity

Application Usage

bytes   sessions   threats   content   URLs   users

Application Categories

Application	Risk	Bytes	Sessions	Threats	Content	URLs	Users
google-base		187.2G	396.3k	122	0	0	4.6k
ssl		118.4G	584.9k	67	0	0	6.2k
youtube-base		44.4G	52.0k	0	0	0	1.8k
ms-update		13.9G	10.6k	17	0	0	1.0k
music		8.4G	37.9k	0	0	0	2.5k
unknown-tcp		7.4G	2.2k	0	0	0	163
google-docs-base		6.7G	3.6k	0	0	0	1.3k
itunes-base		5.8G	3.0k	0	0	0	480
facebook-base		3.7G	10.9k	0	0	0	1.0k
netflix-base		3.2G	651	0	0	0	28
others		21.4G	428.1k	10.6k	0	0	19.6k

User Activity

bytes   sessions   threats   content   URLs   apps

Destination User	Bytes	Sessions	Threats	Content	URLs	Apps
None	420.5G	1.5M	10.9k	0	0	226

150.00G
100.00G
50.00G
0

08:45   09:00   09:15   09:30

bytes_sent   bytes_received

Source IP Activity

bytes   sessions   threats   content   URLs

Source Address	Bytes	Sessions	Threats	Content	URLs	Apps

150.00G
100.00G
50.00G
0

08:45   09:00   09:15   09:30

bytes_sent   bytes_received

Destination IP Activity

bytes   sessions   threats   content   URLs

Destination Address	Bytes	Sessions	Threats	Content	URLs	Apps

150.00G
100.00G
50.00G
0

08:45   09:00   09:15   09:30

bytes_sent   bytes_received

https://wikionco-pa.asc.edu/?#

w.asc.edu

Cybersecurity Education

KnowBe4

School Systems: 124

ThreatAdvice

School Systems: 22

KnowBe5 Modules

KnowBe4 Training Modules

Also included in Training Access Level II (Gold & Platinum)

- KnowBe4 Security Awareness Training *(30-Min)*
- Basics of Credit Card Security
- CEO Fraud
- Common Threats, Part 1 – Miranda's Story
- Common Threats, Part 2 - Kyle's Story
- Creating Strong Passwords
- Financial Institution Physical Security *(for Financial Institutions only)*
- GDPR

KnowBe4 Training Micro-modules

Also included in Training Access Level II (Gold & Platinum)

- Executive Series Micro-modules
- Captain Awareness Series
- Credit Card Security *(Part 1)*
- Credit Card Security *(Part 2)*
- Danger Zone Exercise
- Don't Be Dave
- Email Spoofing
- Handling Sensitive Information Securely *(Part 1)*

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DDoS Mitigation System

Overview Dashboard

Mitigation
Enabled

Detection Engines
1

Telemetry Sources
2

Current Traffic Allowed (Estimated)
53,720 Mbps

5,963,708 Packets per Second

Current Traffic Blocked (Estimated)
109 Mbps

29,764 Packets per Second

Telemetry

Source: All
Aggregation: By Action
Include Allowed Traffic: Yes / No

Units: Mbps / PPS

Time (CDT): 8:30 AM, 8:40 AM, 8:50 AM, 9:00 AM, 9:10 AM, 9:20 AM, 9:40 AM, 9:50 AM, 10:00 AM, 10:10 AM, 10:20 AM

Mitigations

Active | Active with Traffic   Preset: All

Status	Target	Hostname	Source	Updated By	Covered Action	Filter Action	Filter Info	Mitigation Start	Duration (mins)	Device Type	Action Devices	Processing Devices	Failed Devices	Mbps
Active	207.157.	5efccbb6f4a4f942bd4ebb2e28f2b212ba	auto	System	block	discard	cms-007627 a63 discard 207.157. Layer-4.byte=11242	09/15/21 10:39:23	3.15	MX	MRTN-ATL-5de AREN-B9M-APCD			22
Active	207.157.	d16d8a513baf1d6f13b23f3d17dcf369	auto	System	block	discard	cms-007627 a63 discard 207.157. Layer-4.byte=11242	09/15/21 10:41:29	1.83	MX	AREN ATL 5de AREN-B9M-APCD			37
Active	207.157.	cf4fcdc173adcfef643d0cce1achbcafc	auto	System	block	discard	cms-002b89 a63 discard 207.157. fragment	09/15/21 10:39:19	3.18	MX	AREN-ATL-5de AREN-B9M-APCD			
Active	207.157.	+32666bf3f6fbbbe41de5aa96186480be	auto	System	block	discard	cms-007062 a63 discard 207.157. destination-NX-ust24	09/15/21 10:39:19	2.85	MX	AREN ATL 5de AREN-B9M-APCD			

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Broadband Services

	FY21-FY22 Base Level Bandwidth provided at No Charge to schools
K12 – Districts/LEAs	1.5Gbps
K12-High Schools	1.0Gbps
K12-Middle Schools	250Mbps
K12-Elementary Schools	100Mbps

- **Credit is provided for bandwidths above base level**

ASA Supports K12

- Highly redundant 100+ Gbps Statewide Network

- K12 Security Operations Center (SOC)

- ASA Helpdesk (NOC)

- Content filtering, firewall services, and DDoS mitigation included with Broadband

21
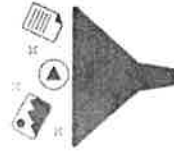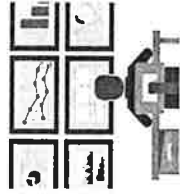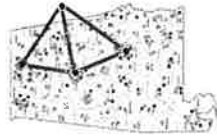
BOARD MEMBERS QUESTIONS

ALABAMA STATE BOARD OF EDUCATION K-12 MEETING AND WORK SESSION DATES FOR 2022

ALABAMA STATE BOARD OF EDUCATION
K-12 MEETING AND WORK SESSION DATES SCHEDULE

2022

MEETING DATES		WORK SESSION DATES	
January 13	Gordon Persons Building Auditorium	January 13	Gordon Persons Building Plaza 103
January 26	State Board Retreat Location: TBD		
February 10	Gordon Persons Building Auditorium	February 10	Gordon Persons Building Plaza 103
March 10	Gordon Persons Building Auditorium	March 10	Gordon Persons Building Plaza 103
April 14	Gordon Persons Building Auditorium	April 14	Gordon Persons Building Plaza 103
May 12	Gordon Persons Building Auditorium	May 12	Gordon Persons Building Plaza 103
June 9	Gordon Persons Building Auditorium	June 9	Gordon Persons Building Plaza 103
*July 12	Gordon Persons Building Auditorium	July 12	Gordon Persons Building Plaza 103
August 11	Gordon Persons Building Auditorium	August 11	Gordon Persons Building Plaza 103
August 24	State Board Retreat Location: TBD		
September 8	Gordon Persons Building Auditorium	September 8	Gordon Persons Building Plaza 103
October 13	Gordon Persons Building Auditorium	October 13	Gordon Persons Building Plaza 103
November 10	Gordon Persons Building Auditorium	November 10	Gordon Persons Building Plaza 103
December 8	Gordon Persons Building Auditorium	December 8	Gordon Persons Building Plaza 103

*Meeting required by State Law

January 26 and August 24 – State Board Retreat

NEW ALABAMA ADMINISTRATIVE CODE RULE

290-010-010-.15, PERTAINING TO ELECTRONIC RECORDS

POLICY

ALABAMA STATE BOARD OF EDUCATION
STATE DEPARTMENT OF EDUCATION
ADMINISTRATIVE CODE

CHAPTER 290-010-010-.15
ELECTRONIC RECORDS POLICY

TABLE OF CONTENTS

290-010-010-.15.1   Legal Basis.
The Alabama Uniform Electronic Transactions Act ("UETA"), Section 8-1A-1 et seq. of the Code of Alabama 1975, enacted in 2002, is intended to facilitate the use of electronic documents in business, commercial, and governmental transactions. The Act promotes but not require the use of electronic signatures and creation of electronic documents. Section 8-1A-18(a) provides that "each government agency of this state with rule-making authority...may determine by rule whether, and the extent to which, it will send and accept electronic records and electronic signatures to and from other persons and otherwise create, generate, communicate, store, process, use, and rely upon electronic records and electronic signatures." Section 8-1A-12(a) provides that an electronic record meets other state law requirements for record retention if the electronic record both accurately reflects the original document and is accessible for later reference. Section 8-1A-13 provides that an electronic record may not be excluded from evidence in court solely because it is in electronic form. Section 8-1A-12(g) provides that the State Records Commission is not precluded by the Act from placing additional requirements for record retention on agencies.

290-010-010-.15.2   Definitions.

Except as otherwise specified in this rule, undefined terms have the respective meanings set forth in the Act. Notwithstanding the forgoing, the following words were used in this rule shall have the following meanings:

(a)   Act or UETA. Alabama Uniform Electronic Transaction Act,
Code of Alabama 1975, Section 8-1A-1 et seq.

(b)   OIT. The State of Alabama Office of Information Technology, as established in Code of Alabama 1975, Section 41-28-1.

(c)   Records Disposition Authority or RDA. An agency-level records retention schedule issued by the State Records Commission under the authority granted by the Code of Alabama 1975, Sections 41-13-5 and 41-13-20 through 21.

(d) State Records Commission. The State Records Commission, as established in Code of Alabama 1975, Section 41-13-20.

290-010-010-.15.3   Use of Electronic Signatures and Electronic Records.

In accordance with Section 8-1A-18(a) of the Code of Alabama 1975, the Department of Education hereby establishes that to the fullest extent permitted by the Act and except as otherwise provided in this administrative rule, the Department of Education will send and accept electronic records and electronic signatures to and from other persons and otherwise create, generate, communicate, store, process, use, and rely upon electronic records and electronic signatures. In accordance with Section 8-1A-18(b), the Department of Education use of electronic records and electronic signatures will comply with the following requirements:

(a) Provide an identical copy of the original signed and executed document to the signer.

(b) Ensure non-repudiation; that the signer cannot deny the fact that he or she electronically signed the document.

(c) Capture information about the process used to capture signatures (i.e., create an audit trail), including but not limited to:

1. IP address
2. Date and time stamp of all events
3. All web pages, documents, disclosures, and other information presented
4. What each party acknowledged, agreed to, and signed

(d) Encrypt, end-to-end, all communication within the signature process. Encryption technologies shall comply with state encryption standards, including the requirements that cryptographic modules be validated to the current Federal Information Processing Standards (FIPS).

The information contained in this subsection constitutes the minimum that is required for a valid electronic signature. Any authorized person within the Department of Education may require additional reasonable information from a signer in order to establish the identity and signature authority of the signer. The Department of Education may provide additional requirements subject to a State of Alabama information technology policy as promulgated by OIT.

290-010-010-.15.4   Creation and Retention of Electronic Records.
In accordance with Section 8-1A-17 of the Code of Alabama 1975, the Department of Education hereby establishes that to the fullest extent permitted by the Act and except as otherwise provided in this administrative rule, it will create and retain electronic records and convert written records to electronic records. Any such electronic records will be retained in compliance with State Records Commission requirements, including the records retention schedules set forth in the Department of Education Records Disposition Authority. The Department of Education may create a retrievable electronic record or copy, by optical scan or otherwise, of paper original documents or make other images or paper copies which accurately reproduce the originals and may destroy original paper documents so copied as specified in the RDA. Electronic copies of original documents, when certified by an authorized the Department of Education record custodian, are admissible in the Department of Education

administrative proceedings as authorized by the Act as though they were the original document. The electronic document retains the confidential or public document characteristics of the original document.

Author: Eric G. Mackey, State Superintendent of Education
Statutory Authority: Code of Ala. 1975, §§16-4-13, et seq.
History: New Rule: Filed _____; effective ___

RESOLUTION TO AUTHORIZE REVIEW OF AN EDUCATOR PREPARATION PROGRAM, JACKSONVILLE STATE UNIVERSITY

RESOLUTION TO AUTHORIZE REVIEW
OF AN EDUCATOR PREPARATION PROGRAM
Jacksonville State University

WHEREAS, *Alabama Administrative Code*, Rule No. 290-3-3-.59(4)(b)2., requires that approval by the Alabama State Board of Education shall be secured before a proposal for a new program is reviewed by the Office of Teaching and Leading of the Alabama State Department of Education; and

WHEREAS, the State Superintendent of Education has received from the President of Jacksonville State University a written request to develop a Class AA Elementary Education program; and

WHEREAS, the request lists the specific proposed program for which the Alabama State Board of Education approval is being sought, together with information concerning the factors to be taken into account in determining the need for the program; and

WHEREAS, Jacksonville State University personnel have been advised that the proposed program may not be implemented prior to Alabama State Board of Education approval, based on documentation of compliance with all applicable standards; and

WHEREAS, the State Superintendent of Education recommends that the program be reviewed by the Office of Teaching and Leading of the Alabama State Department of Education:

NOW, THEREFORE, BE IT RESOLVED, That the Alabama State Board of Education hereby authorizes a review of the following program:

Class AA Elementary Education (K-6)

Done this 9th day of December 2021

Jacksonville State University
Authorize Review of New Program
December 9, 2021

Jacksonville State University (JSU) is seeking to develop a Class AA Elementary Education (K-6) program. JSU had the program in the past but allowed approval to expire. It is seeking to have the program again to meet the requirement that the Class AA Teacher Leader (P-12) program have a faculty member who also teaches in Class AA teaching field program.

February 12, 2021

Dr. Eric Mackey
Alabama State Department of Education
50 North Ripley Street
Montgomery, AL 36104

Dr. Mackey,

Jacksonville State University's School of Education has been in the process of completing the required Analysis Forms for program review and renewals due on June 1, 2021. Through the analysis of the Teacher Leader Educational Specialist Program, on form 52.01, attention was brought to the faculty qualifications: two faculty must be assigned, one with an earned doctorate that prepares instructional leaders at the AA level and a second with an earned doctorate that prepares teachers at the AA level. JSU offers only one AA level program that prepares teachers, and that is Physical Education.

Over time, the two full time assigned faculty for this program both fell into the instructional leader category. This came to light during the preparation of the Analysis 52.01. To address this deficit, Dr. Kory Hill from the Physical Education EdS program was immediately assigned to the Teacher Leader program for spring 2021. Dr. Hill holds an earned doctorate and prepares physical education teachers at the AA level for P-12. This immediate solution represents swift action to comply with the code.

Moving forward, JSU plans to provide a more sustainable route to remain in compliance with the faculty qualifications for Teacher Leader. In order to provide a more robust solution to the faculty qualifications, JSU plans to resurrect the AA EED EdS program. The program, which was last offered in 2014, but not deleted, will be updated to include an emphasis on literacy, numeracy, and STEM in the elementary classroom. Faculty from the resurrected AA EED EdS will be assigned to the Teacher Leader program. JSU expects the renewed program to be implemented in the 2021-2022 academic year.

700 Pelham Road North
Jacksonville, AL 36265-1602
P 256 782 5601
P 800 231 5291
F 256 782 5682
www.jsu.edu

An Equal Opportunity, Affirmative Action Employer

Respectfully, JSU asks for a one-year extension to provide compliance evidence for the AA Teacher Leader program for faculty qualifications. While we have quickly addressed this issue in the short-term, we wish to have a more sustainable plan going forward.

I welcome a meeting or call to further discuss this situation, should you desire.

Sincerely,

Don C. Killingsworth, Jr., Ed.D
President

Cc: Dr. Christie Shelton, Provost and Senior Vice President for Academic Affairs
       Dr. Janet Bavonese, Interim Dean for the School of Education

RESOLUTION IN RECOGNITION OF BREWTON ELEM SCH, BREWTON CITY SCH SYS, 2021 BLUE RIBBON SCHOOL

RESOLUTION IN RECOGNITION OF BREWTON ELEMENTARY SCHOOL, BREWTON CITY SCHOOL SYSTEM 2021 BLUE RIBBON SCHOOL

WHEREAS, U.S. Department of Education Secretary Miguel Cardona named Brewton Elementary School in the Brewton City School System as a 2021 National Blue Ribbon School; and

WHEREAS, since 1982, nearly 9,000 of America's schools have received this coveted award that honors those that reflect the goals of high standards and accountability; and

WHEREAS, the Blue Ribbon Schools Program honors public and private elementary, middle, and high schools that demonstrate overall academic excellence or show success in closing achievement gaps; and

WHEREAS, 325 public schools were selected nationwide, out of more than 133,000 public schools in the nation, for the 2021 Blue Ribbon Schools award, which is one of the most prestigious education awards in the country; and

WHEREAS, the Blue Ribbon Schools were honored at a conference and awards ceremony November 4-5, 2021, in Washington, D.C.:

NOW, THEREFORE, BE IT RESOLVED, That the Alabama State Board of Education does hereby commend the faculty, staff, students, and parents of Brewton Elementary School, Brewton City School System, on achieving the status of a U.S. Department of Education Blue Ribbon School in 2021.

Done this 9th day of December 2021

RESOLUTION IN RECOGNITION OF ORANGE BEACH ELEM SCH,
BALDWIN COUNTY SCH SYS, 2021 BLUE RIBBON SCHOOL

RESOLUTION IN RECOGNITION OF ORANGE BEACH ELEMENTARY SCHOOL, BALDWIN COUNTY SCHOOL SYSTEM 2021 BLUE RIBBON SCHOOL

WHEREAS, U.S. Department of Education Secretary Miguel Cardona named Orange Beach Elementary School in the Baldwin County School System as a 2021 National Blue Ribbon School; and

WHEREAS, since 1982, nearly 9,000 of America's schools have received this coveted award that honors those that reflect the goals of high standards and accountability; and

WHEREAS, the Blue Ribbon Schools Program honors public and private elementary, middle, and high schools that demonstrate overall academic excellence or show success in closing achievement gaps; and

WHEREAS, 325 public schools were selected nationwide, out of more than 133,000 public schools in the nation, for the 2021 Blue Ribbon Schools award, which is one of the most prestigious education awards in the country; and

WHEREAS, the Blue Ribbon Schools were honored at a conference and awards ceremony November 4-5, 2021, in Washington, D.C.:

NOW, THEREFORE, BE IT RESOLVED, That the Alabama State Board of Education does hereby commend the faculty, staff, students, and parents of Orange Beach Elementary School, Baldwin County School System, on achieving the status of a U.S. Department of Education Blue Ribbon School in 2021.

Done this 9th day of December 2021

RESOLUTION IN RECOGNITION OF MT. LAUREL ELEM SCH, SHELBY COUNTY SCH SYS, 2021 BLUE RIBBON SCHOOL

RESOLUTION IN RECOGNITION OF MT. LAUREL ELEMENTARY SCHOOL, SHELBY COUNTY SCHOOL SYSTEM 2021 BLUE RIBBON SCHOOL

WHEREAS, U.S. Department of Education Secretary Miguel Cardona named Mt. Laurel Elementary School in the Shelby County School System as a 2021 National Blue Ribbon School; and

WHEREAS, since 1982, nearly 9,000 of America's schools have received this coveted award that honors those that reflect the goals of high standards and accountability; and

WHEREAS, the Blue Ribbon Schools Program honors public and private elementary, middle, and high schools that demonstrate overall academic excellence or show success in closing achievement gaps; and

WHEREAS, 325 public schools were selected nationwide, out of more than 133,000 public schools in the nation, for the 2021 Blue Ribbon Schools award, which is one of the most prestigious education awards in the country; and

WHEREAS, the Blue Ribbon Schools were honored at a conference and awards ceremony November 4-5, 2021, in Washington, D.C.:

NOW, THEREFORE, BE IT RESOLVED, That the Alabama State Board of Education does hereby commend the faculty, staff, students, and parents of Mt. Laurel Elementary School, Shelby County School System, on achieving the status of a U.S. Department of Education Blue Ribbon School in 2021.

Done this 9th day of December 2021

RESOLUTION IN RECOGNITION OF HALL KENT ELEM SCH, HOMEWOOD CITY SCH SYS, 2021 BLUE RIBBON SCHOOL

RESOLUTION IN RECOGNITION OF HALL KENT ELEMENTARY SCHOOL, HOMEWOOD CITY SCHOOL SYSTEM 2021 BLUE RIBBON SCHOOL

WHEREAS, U.S. Department of Education Secretary Miguel Cardona named Hall Kent Elementary School in the Homewood City School System as a 2021 National Blue Ribbon School; and

WHEREAS, since 1982, nearly 9,000 of America's schools have received this coveted award that honors those that reflect the goals of high standards and accountability; and

WHEREAS, the Blue Ribbon Schools Program honors public and private elementary, middle, and high schools that demonstrate overall academic excellence or show success in closing achievement gaps; and

WHEREAS, 325 public schools were selected nationwide, out of more than 133,000 public schools in the nation, for the 2021 Blue Ribbon Schools award, which is one of the most prestigious education awards in the country; and

WHEREAS, the Blue Ribbon Schools were honored at a conference and awards ceremony November 4-5, 2021, in Washington, D.C.:

NOW, THEREFORE, BE IT RESOLVED, That the Alabama State Board of Education does hereby commend the faculty, staff, students, and parents of Hall Kent Elementary School, Homewood City School System, on achieving the status of a U.S. Department of Education Blue Ribbon School in 2021.

Done this 9th day of December 2021

RESOLUTION IN RECOGNITION OF MACMILLAN
INTERNATIONAL ACADEMY, MONTGOMERY
COUNTY SCH SYS, 2021 BLUE RIBBON SCHOOL

RESOLUTION IN RECOGNITION OF MACMILLAN INTERNATIONAL ACADEMY, MONTGOMERY COUNTY SCHOOL SYSTEM 2021 BLUE RIBBON SCHOOL

WHEREAS, U.S. Department of Education Secretary Miguel Cardona named MacMillan International Academy in the Montgomery County School System as a 2021 National Blue Ribbon School; and

WHEREAS, since 1982, nearly 9,000 of America's schools have received this coveted award that honors those that reflect the goals of high standards and accountability; and

WHEREAS, the Blue Ribbon Schools Program honors public and private elementary, middle, and high schools that demonstrate overall academic excellence or show success in closing achievement gaps; and

WHEREAS, 325 public schools were selected nationwide, out of more than 133,000 public schools in the nation, for the 2021 Blue Ribbon Schools award, which is one of the most prestigious education awards in the country; and

WHEREAS, the Blue Ribbon Schools were honored at a conference and awards ceremony November 4-5, 2021, in Washington, D.C.:

NOW, THEREFORE, BE IT RESOLVED, That the Alabama State Board of Education does hereby commend the faculty, staff, students, and parents of MacMillan International Academy, Montgomery County School System, on achieving the status of a U.S. Department of Education Blue Ribbon School in 2021.

Done this 9th day of December 2021

RESOLUTION IN RECOGNITION OF DECEMBER 6-12, 2021, AS "COMPUTER SCIENCE EDUCATION WEEK" IN ALABAMA SCHOOLS

RESOLUTION IN RECOGNITION OF DECEMBER 6-12, 2021, AS "COMPUTER SCIENCE EDUCATION WEEK" IN ALABAMA SCHOOLS

WHEREAS, Computer Science Education Week highlights the crucial role that computer science plays in transforming our society through enabling innovation, technological advances, and economic growth; and

WHEREAS, the theme for this year's Computer Science Education Week is *#CSEverywhere*; to highlight the impact that computer science is making everywhere and the relationship that computer science has to different subjects, industries, career paths, and our everyday lives; and

WHEREAS, the field of computer science underpins the information technology sector and many science, technology, engineering, and mathematics (STEM) careers, making it a foundational science for the digital age and a significant contributor to Alabama's economic output through the research and development of new innovations; and

WHEREAS, the outlook for computer science jobs is bright with more than 4,063 open computing positions across the state of Alabama with the current average salary for a computing occupation paying $100,000, which is significantly higher than the average salary in the state; and

WHEREAS, providing students the chance to participate in high-quality computer science courses and activities exposes them to the rich opportunities the field offers and provides critical thinking and computational skills that will serve them throughout their lives; and

WHEREAS, all students in Alabama deserve a thorough preparation in computer science education, including access to qualified teachers, technology, and age-appropriate curriculum needed to learn computer science at the elementary and secondary levels of education; and

WHEREAS, participating in an Hour of Code during Computer Science Education Week can serve to demystify the field of computer science and encourage more students to take up further studies of computer science; and

WHEREAS, the field of computer science has significant equity barriers to address, including attracting more participation by females and underrepresented minorities to all levels; and

WHEREAS, the week of December 6-12, 2021, in honor of Grace Hopper's birthday, one of the first females in the field of computer science, engineered new programming languages and pioneered standards for computer systems which laid the foundation for many advancements in computer science is designated as National Computer Science Education Week by Code.org, the Computer Science for All Initiative, the National Center for Women in Information Technology, and other nationally recognized entities:

NOW, THEREFORE, BE IT RESOLVED, That the Alabama State Board of Education does hereby designate December 6-12, 2021, as "Computer Science Education Week" in the public schools of Alabama.

Done this 9th day of December 2021

ALSBOE RESOLUTION DECLARING IMPORTANCE OF LOCAL BOARD AUTONOMY RELATED TO CERTAIN INDIVIDUAL HEALTH AND SAFETY DECISIONS

ALABAMA STATE BOARD OF EDUCATION RESOLUTION DECLARING IMPORTANCE OF LOCAL BOARD AUTONOMY RELATED TO CERTAIN INDIVIDUAL HEALTH AND SAFETY DECISIONS

WHEREAS, the Alabama State Board of Education (ALSBOE) believes that the safety, security, and well-being of all Alabama students is a paramount duty of all educators; and

WHEREAS, many actions and policies related to the current unprecedented COVID-19 pandemic are best determined at the local education agency (LEA) level, based on constantly changing community circumstances and the ability to implement best practices as recommended by the Alabama Department of Public Health; and

WHEREAS, as part of its duty, the ALSBOE is charged with adopting polices to assist and support LEAs. The ALSBOE believes that each LEA is in the best position to make informed decisions on what is in the best interest of each community. The ALSBOE further believes that certain matters of health and safety policy should be reserved for LEAs to determine:

NOW, THEREFORE, BE IT RESOLVED, That the ALSBOE affirms that certain decisions regarding highly specialized actions and policies, including but not limited to, the use of facial coverings, spacing of desks, arrangements of cafeteria and sports seating, and other factors related to students' health and safety, should continue to be made at the LEA level based on the best interest of the students in each individual community; and

BE IT FURTHER RESOLVED, That the ALSBOE retains the right to set minimum standards of compliance for actions or policies that require long-term, statewide application, or for any other policy decision within its purview.

Done this 9th day of December 2021

RESOLUTION IN RECOGNITION OF SELMA CITY SCHOOL SYSTEM'S ALABAMA PERFORMANCE EXCELLENCE PROGRAM AWARD

RESOLUTION IN RECOGNITION OF SELMA CITY SCHOOL SYSTEM'S ALABAMA PERFORMANCE EXCELLENCE PROGRAM AWARD

WHEREAS, the Alabama State Board of Education recognizes, appreciates, and encourages strong leadership that results in local education agencies (LEAs) having higher levels of quality and performance for Alabama students; and

WHEREAS, through their hard work and determination, the Selma City School System has garnered the attention of Alabama Performance Excellence (ALPEx), which consists of a trained team of examiners who evaluate organizations and assist them with improving their processes and results; and

WHEREAS, because of their strategic steps to achieve higher levels of excellence and accomplishment, the Selma City School System has been awarded the ALPEx Award Tier Two, the only LEA in the state to receive this award; and

WHEREAS, Selma City Schools Superintendent, Dr. Avis Williams has spearheaded initiatives that increase productivity and have positively impacted students throughout the district; and

WHEREAS, the ALPEx Award was established for the purpose of recognizing organizations that use unique practices and innovative strategies to increase productivity and effectiveness, as well as serve as a beacon for other organizations to model in their quest for organizational excellence; and

WHEREAS, the Alabama State Board of Education believes that all students should have the benefit of a solidly structured, well-organized team of education professionals who make decisions, implement programs, and adopt policies that are rooted in what best supports significant academic development:

NOW, THEREFORE, BE IT RESOLVED, That the Alabama State Board of Education does hereby extend congratulations to the Selma City School System for being the sole recipient of this award from Alabama Performance Excellence, and recognizes the teachers, administrators, and others who made this recognition possible.

Done this 9th day of December 2021