Jefferson County Public Schools

ARMAC

JEFFERSON COUNTY PUBLIC SCHOOLS

JCPS™ IT 3

Information • Integration • Innovation

Objective

Protect digital safety, privacy, and security for JCPS students and staff while supporting instruction and daily operations.

How do we monitor, manage, and mitigate risk?

How do we mitigate and manage risk?

Framework

ISO - International Organization for Standardization

National Institute Of Standards and Technology (NIST) IT Framework

Digital Privacy, Safety, and Security Module

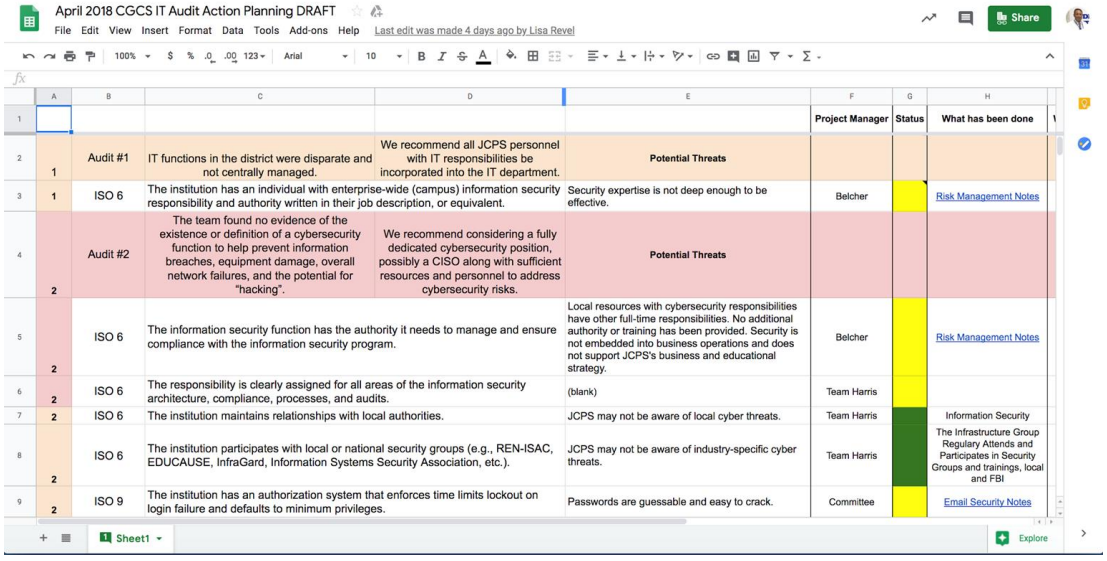
- iKeepSafe
- Common Sense Education

Risk Management Committees

- IT3 Risk Management Committee
- JCPS Risk Management Executive Committee

How do we monitor risk?

Awareness - Behavior - Continuous Improvement



April 2018 CGCS IT Audit Action Planning DRAFT

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						Project Manager	Status	What has been done
1		Audit #1	IT functions in the district were disparate and not centrally managed.	We recommend all JCPS personnel with IT responsibilities be incorporated into the IT department.	Potential Threats			
1	1	ISO 6	The institution has an individual with enterprise-wide (campus) information security responsibility and authority written in their job description, or equivalent.		Security expertise is not deep enough to be effective.	Belcher		Risk Management Notes
2		Audit #2	The team found no evidence of the existence or definition of a cybersecurity function to help prevent information breaches, equipment damage, overall network failures, and the potential for "hacking".	We recommend considering a fully dedicated cybersecurity position, possibly a CISO along with sufficient resources and personnel to address cybersecurity risks.	Potential Threats			
2	2	ISO 6	The information security function has the authority it needs to manage and ensure compliance with the information security program.		Local resources with cybersecurity responsibilities have other full-time responsibilities. No additional authority or training has been provided. Security is not embedded into business operations and does not support JCPS's business and educational strategy.	Belcher		Risk Management Notes
2	2	ISO 6	The responsibility is clearly assigned for all areas of the information security architecture, compliance, processes, and audits.		(blank)	Team Harris		
2	2	ISO 6	The institution maintains relationships with local authorities.		JCPS may not be aware of local cyber threats.	Team Harris		Information Security
2	2	ISO 6	The institution participates with local or national security groups (e.g., REN-ISAC, EDUCAUSE, InfraGard, Information Systems Security Association, etc.).		JCPS may not be aware of industry-specific cyber threats.	Team Harris		The Infrastructure Group Regulary Attends and Participates in Security Groups and trainings, local and FBI
2	2	ISO 9	The institution has an authorization system that enforces time limits lockout on login failure and defaults to minimum privileges.		Passwords are guessable and easy to crack.	Committee		Email Security Notes

Sheet1

Explore

How do we monitor risk?

Awareness - Behavior - Continuous Improvement

Digital Privacy, Safety, & Security

Proactively address growing concerns of safety in 21st century classrooms with a research-based framework that collects, stores, and updates formative data from diverse experts within each district. The module helps organizations create relevant policies to ensure a safe learning environment.

Digital Privacy, Safety & Security Module

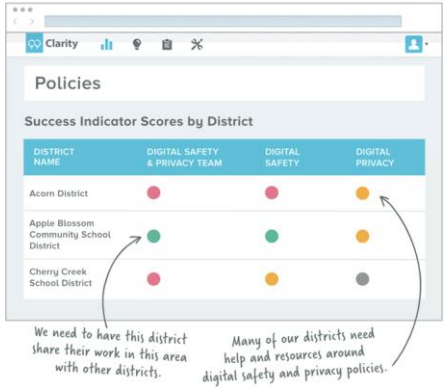
The Digital Privacy, Safety & Security framework is built around four domains that gather input from stakeholders at multiple levels and provide a clear picture of the strengths and gaps in an organization's digital environment.

Policies
Digital Safety and Privacy - Create a positive school culture

Programs
Educational Stakeholders - Drive Inspiring Actions

Systems
Access & Technical Security - Build meaningful structures and routines

Incident Responses
Process & Post Incident Assessment - Create effective processes for handling digital incidents



Awareness - Behavior - Continuous Improvement

JCPS

Risk Management Committee

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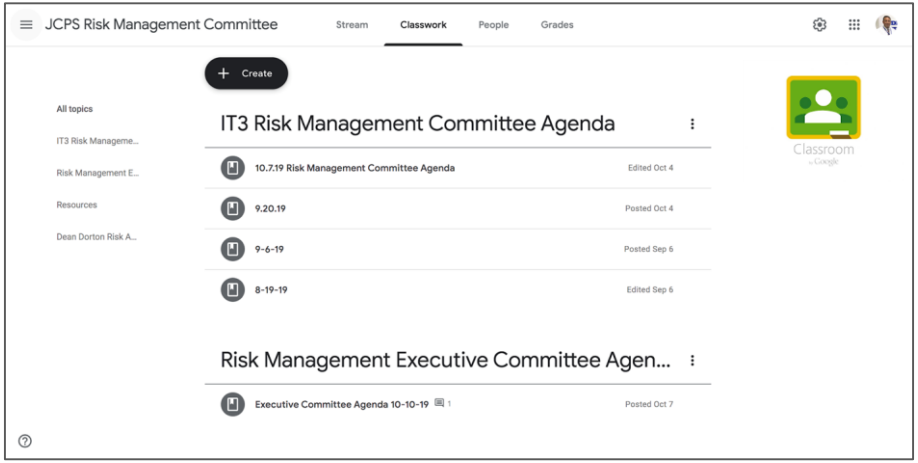

IT Risk Management Enhancements

Organizational Coherence

- IT reorganization - repurposed positions to focus on cybersecurity roles and responsibilities

Technical Controls

- Microsoft A5 upgrade
- Google domain audit
- CIS controls - Center for Internet Security

Systems of Awareness and IT Risk Management

- IT risk assessment
- Risk management committees
- Systems implementation - Technical controls and human behavior
- Data governance

IT Risk Management Continuous Improvement

Organizational Coherence

- Request to add Assistant Director of Cybersecurity and Compliance for 2020

Technical Controls

- Google Suite for EDU enterprise solution
- Network infrastructure upgrade
- Network and application analytics & security analytics

Systems of Awareness and Risk Management

- Digital privacy, safety, and security website
- Policy / procedures, programs & incident responses