Topic No. 325-000-002 <u>Information_Transportation</u> Technology <u>Resource User's-</u>Manual Computer Security Incident Response Team (CSIRT) Effective: 07-01-20162018

CHAPTER 1

COMPUTER SECURITY INCIDENT RESPONSE TEAM (CSIRT)

PURPOSE:

The purpose of this procedure is to establish the roles, responsibilities, and communication procedures for the Computer Security Incident Response Team (CSIRT) and Department employees when responding to computer security incidents which may occur within the Florida Department of Transportation (Department). The CSIRT is an objective body with the required technical and procedural skills and resources to appropriately handle computer security incidents. The CSIRT is responsible for identifying and controlling the incidents, notifying designated CSIRT responders, and reporting findings to management.

AUTHORITY:

Sections 20.23(4)(a) and 334.048(3), Florida Statutes (F.S.)

SCOPE:

This procedure is applicable to all information and <u>information</u> technology resources, at all levels of sensitivity, whether owned and operated by or operated on behalf of the Department. Additionally, consultants, outside agency workers, and volunteers assume the **Department Employee Reporting Responsibilities** established within this procedure, and are included in any reference to employee throughout this procedure.

This procedure establishes the minimum standards for Department CSIRT functions. Districts may implement processes that meet or exceed the Department requirements in this procedure.

REFERENCES:

Section 282.318, <u>Florida Statutes</u>F.S. <u>Section 20.055 Florida Statutes</u>F.S. Rule Chapter 74-2, Florida Administrative Code (F.A.C.) Security and Use of <u>Information</u> Technology Resources, Topic No. <u>001</u>-325-060<u>-020</u> Office of the Inspector General (OIG) Audit Process Computer Security Incident Response Team 1

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1.1 DEPARTMENT EMPLOYEE RESPONSIBILITIES

In support of the Department's CSIRT efforts, employees are required to:

- (1) Immediately report any breach of security, including but not limited to, unlawful accesses, suspected intrusions, theft, or other actions that compromise the security of information technology resources to the FDOT Service Desk.
- (2) Cooperate with the CSIRT during investigations of suspected computer security incidents by providing all requested information whether verbal or written to members of the CSIRT in a timely manner.
- (3) Respond to final reports from a CSIRT investigation.
- (4) Establish any additional security controls that are deemed necessary by the CSIRT as a result of a computer security incident investigation.
- (5) Maintain proper security controls and adhere to security guidelines in accordance with *Topic No. 001-325-060-020* Security and Use of *Information Technology Resources*; and all other information security standards and procedures.

1.2 CSIRT ROLES AND RESPONSIBILITIES

1.2.1 Role of the CSIRT

The role of the CSIRT is to serve as the first responder to computer security incidents within the Department and to perform vital functions in identifying, mitigating, reviewing, documenting, and reporting findings to management. The CSIRT coordinates with the Chief <u>of Transportation Technology</u>Information Officer (CIO), but is accountable directly to the Secretary-<u>or designee</u>.

1.2.2 Responsibilities of the CSIRT

The CSIRT will be responsible for the following activities:

(1) Classifying Department security incidents-

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	(2)	Meeting upon notification of a reported computer security incident		
	()	dependent upon the incident severity level.		
		Conducting a proliminary assessment to determine the reat cause		
		<u>—Conducting a preliminary assessment to determine the root cause,</u> source, nature and extent of damage of the suspected computer security		
		incident with recommended responses as deemed appropriate.		
(3)		ucting a preliminary assessment to determine the root cause, source,		Formatted: Indent: Left: 0", First line: 0"
nature	e, and (3)	extent of damage.		Formatted: Indent: Left: 0.5", Hanging: 0.5", Numbered +
	(4)	Recommending responses to a computer security incident.		Level: 1 + Numbering Style: 1, 2, 3, + Start at: 1 + Alignment: Left + Aligned at: 0.5" + Indent at: 0.75", No widow/orphan control, Adjust space between Latin and Asian
	(5) (4)	_Selecting additional support members <u>and subject matter experts</u> as		text, Adjust space between Asian text and numbers
		necessary for the reported incident-		
	(6)	-Maintaining confidentiality and need to know of information related to		
	(-)	computer security		
	(5)	_incidents-		Formatted: Indent: Left: 0.5", Hanging: 0.5", Numbered + Level: 1 + Numbering Style: 1, 2, 3, + Start at: 1 +
	(7)	-Assisting with recovery efforts and providing reports to the		Alignment: Left + Aligned at: 0.5" + Indent at: 0.75"
	(r)	CIO.management.		
		_		Formatted: Indent: Left: 0.5", Hanging: 0.5", Numbered +
(8)		ssing the root cause, source, nature, and extent of damage of the suspected.		Level: 1 + Numbering Style: 1, 2, 3, + Start at: 1 + Alignment: Left + Aligned at: 0.5" + Indent at: 0.75"
comp	uter se (6)	ocurity incident.		Formatted: Indent: Left: 0", First line: 0"
	<u>(0)</u> (9)	Documenting all incidents (Classes 1, 2, and 3) using the Information Technology Resource Violation and/or Incident Reporting form (325-		Formatted: Indent: Left: 0.5", Hanging: 0.5", Numbered + Level: 1 + Numbering Style: 1, 2, 3, + Start at: 1 + Alignment: Left + Aligned at: 0.5" + Indent at: 0.75"
		060-04).		
	(7)	Conduct analysis and document incidents to include findings and corrective		Formatted: Justified
	<u>(7)</u>	actions."Performing and documenting all incidents and as appropriate		Formatteu, Justineu
		include a root cause analysis and lessons learned.		
	(10)	Documenting incidents as appropriate. Examples include: lessons learned		
		and recommended actions.		
	(11)<u>(</u>8	3) Reporting incidents to the ASTCISO (Agency State Technology's Chief Information Security Officer)and the Cybercrime Office-		
	(12) (9	A) Maintaining awareness of, and implementing procedures for, an		
	(127(3	effective response to computer security incidents-	/	Formatted: Left, Tab stops: 8.88", Right + Not at 5.81" +
				6.19"

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(10) Staying current on functional and security operations for the technologies within their individual area of responsibility-

(13)(11) Receiving annual training on cybersecurity, threats, trends and best practices-

1.2.3 CSIRT Meetings and Trainings

In accordance with *Rule 74-2.005, F.A.C.*, the CSIRT will meet at least once a quarter to facilitate its activities. Regular CSIRT meetings will be convened by the CSIRT leader and include training sessions, incident trends and reviews and discussions covering portions of the Department's CSIRT procedure review established processes and escalation protocols.

1.2.4 Conflicts of Interest

1.3 CSIRT MEMBER ROLES AND RESPONSIBILITIES

The FDOT CSIRT Core team, is comprised includes at a minimum, of the Information Security Manager, the <u>Chief of Transportation Technology (CTT)</u>, the <u>Chief Information</u> Officer <u>(CIO) and</u>, and a member of the Office of Inspector General. Office of Information Technology (OIT) Office Managers, Statewide Emergency Coordination Officer and a representative from OIG. If the CSIRT leader determines that the incident requires the additional expertise of a support member, that member will be added to the CSIRT for the duration of the incident resolution. For all Class 3 CSIRT incidents, an

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FDOT CSIRT Advisory team will be convened. The CSIRT Advisory team will include all CSIRT Core members and be advised by representatives <u>as needed</u> from the Office of General Counsel, Personnel Resource Management Office, and Public Information Office.

1.3.1 CSIRT LeadershipRole of the Information Security Manager

The ISM will serve as the CSIRT leader. In the event that the ISM is not available during a security event, the CIO will act as the CSIRT leader or designate a CSIRT leader to serve in the interim. The CSIRT leader is responsible for managing the activities of the CSIRT.

The CSIRT leader's duties will include the following:

- (1) Contacting the Chief Information Officer-
- (2) Convening the CSIRT-
- (3) Designating CSIRT Incident Manager (CSIRT-IM)-
- (4) Selecting additional support members as necessary for the reported incident.
- (5) Managing incidents-
- (6) Periodically reporting status of incidents to the CIO-
- (7) Ensuring Class 2 and Class 3 incidents are documented-
- (8) Ensuring Class 2 and Class 3 incidents are reported to AST-CISO-
- (9) Conducting a debriefing of lessons learned and reporting to the CIO-
- (10) Conducting meetings of the CSIRT-
- (11) Ensuring meetings are documented-
- (12) Directing CSIRT training on an ongoing basis-
- (13) Coordinating CSIRT incident research and response activities-

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(14) Maintaining up-to-date contact information for CSIRT members-

1.3.2 Role of the Chief <u>of Transportation Technology Information</u> Officer

Though the CSIRT is owned by FDOT, T the ISM CIO-is responsible for all CSIRT activities and will ensure that the CSIRT operates according to the Department CSIRT procedure as well as all applicable authorities, references, and policies. All decisions relating to incident resolution are the responsibility of the CTTCIO or designee after conferring with the Secretary. The CTTCIO is responsible for reporting incidents to FDOT executive management.

1.3.3 Role of the Chief Information Officer

The Chief Information Officer is responsible for ensuring operational support is available for the resolution and remediation of incidents. This includes providing coordinated oversight between the various OIT sections, establishing priorities, and assisting in the prioritization of future work required based on lessons learned. The CIO will work closely with the CTT to detail the impact of incidents on OIT.

1.3.43 Role of the Office of the Inspector General

Chapter 20.055, F.S. tasks each agency's Inspector General with initiating, conducting, and coordinating investigations related to the programs and operations of each state agency. The Department's OIG will assign a representative to serve on the CSIRT to ensure that CSIRT reviews are properly handled and that reviews that uncover policy violations, fraud, or other abuses are transferred to the OIG for further investigation when appropriate.

The OIG representative will determine if and when law enforcement agencies should be called during the course of an incident review whenever the OIG has reasonable grounds to believe there has been a violation of criminal law. If a CSIRT incident requires the intervention of law enforcement, the OIG will contact law enforcement and develop any required protocols before exchanging investigative information. The Department-CSIRT leader will keep the AST-CISO informed of any referrals to law enforcement and ensure CSIRT members are fully briefed on any interagency incidents. The CSIRT leader and/or designated member of OIG staff may serve as a liaison among law enforcement, AST-CISO, and the CSIRT.

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1.3.54 CSIRT Incident Manager

The CSIRT Incident Manager (CSIRT-IM) will be designated by the CSIRT Leader. The criteria for designating a CSIRT-IM will be based upon the technical nature and scope of the incident. For most incidents, this will be an OIT <u>office managerBureau Chief</u>. In incidents of a highly sensitive or unique nature, the CSIRT leader and/or CIO may designate someone other than an OIT <u>office managerBureau Chief</u> as the CSIRT-IM.

1.3.65 General Roles and Responsibilities of CSIRT Members

CSIRT members must be familiar with published security guidelines available through the Department's published security policies and procedures. Each CSIRT member will serve as a subject matter expert for the area of the Department they represent. As representatives of their respective areas, each member will ensure that all policies and procedures as well as state and federal laws that apply to their specific area of responsibility are being adhered to during the implementation of this CSIRT procedure. Each CSIRT member should have an awareness of the duties of the other CSIRT members.

Each CSIRT member must also be available (or have a designee available) to respond to security incidents during business and non-business hours in order to mitigate possible incidents and react swiftly to minimize damage to critical infrastructure, computer system(s), networks, and data.

1.4. COMPUTER SECURITY INCIDENT CLASSIFICATIONS

The CSIRT will classify each incident as a <u>Class-Criticality 0</u>, <u>Criticality 1</u>, <u>Class</u> <u>Criticality 2</u>, or <u>Class-Criticality 3</u> incident based upon risk-based severity. These classifications allow for consistency <u>among all state agencies</u> for reporting and tracking <u>purposes</u>. If an incident meets several criteria in different rating categories, the incident will be defined based on the highest rating. <u>Criticality 0 are deemed to be observable</u> <u>events that are worth being documented with the understanding they may possibly</u> <u>become incidents</u>.

Examples including but not limited to are anti-malware protection that prevents infection, an Intrusion Prevention System (IPS) that drops inbound traffic.

The following criteria will be used to determine incident classification:

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(1) Data classification

(2) Legal issue

(3) Business impact

(4) Extent of service disruption

(5) Threat potential

(6) Public interest

(7) Policy infraction

1.4.1 Class 1 Incident: Low Severity Rating

A Class 1 incident is any incident that has a low impact to Department information technology resources and is contained within the Department.

The following criteria define Class 1 incidents:

- (1) Data classification: Unauthorized disclosure of confidential information has not occurred.
- (2) Legal issues: Lost or stolen hardware that has low monetary value or is not part of a mission critical system.
- (3) Business impact: Incident does not involve mission critical services.
- (4) Extent of service disruption: Incident is within a single business unit.
- (5) Threat potential: Threat to other information technology resources is minimal.

(6) Public interest: Low potential for public interest.

(7) Policy infraction: Security policy violations determined by the Department.

1.4.2 Class 2 Incident: Moderate Severity Rating

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A Class 2 incident is any incident that has a moderate impact to Department information technology resources and is contained within the Department.

The following criteria define Class 2 incidents:

(1) Data classification: Unauthorized disclosure of confidential information has not been determined.

(2) Legal issues: Lost or stolen hardware with high monetary value or that is part of a mission critical system.

(3) Business impact: Incident involves mission critical services.

(4) Extent of service disruption: Incident affects multiple business units within the Department.

 (5) Threat potential: Threat to other Department information technology resources is possible.

(6) Public interest: There is the potential for public interest.

(7) Policy infraction: Security policy violations determined by the Department.

1.4.3 Class 3 Incident: High Severity Rating

A Class 3 incident is any incident that has impacted or has the potential to impact other state information technology resources and/or events of public interest.

The following criteria define Class 3 incidents:

(1) Data classification: Unauthorized disclosure of confidential information has occurred.

(2) Legal issues: Incident investigation and response is transferred to law enforcement.

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(3) Business impact: Threat to other Department information technology resources is high.
 (4) Extent of service disruption: Disruption is wide spread across the Department and/or other agencies.
 (5) Threat potential: Incident has potential to become widespread across the Department and/or threatens external, third-party information technology resources.
 (6) Public interest: There is active public interest in the incident.
 (7) Policy infraction: Security policy violations determined by the Department.

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Criteria	<u>Class 1 – Low/Minimal</u>	Class 2 - Medium	Class 3 – High/Critical		
Account Compromise	A single user account is	More than one user account is	A user account that deals with		
	compromised by the same threat	compromised by the same threat	personal or confidential information		
	source.	source.	is compromised with confirmed		
			data loss or exposure.		
Breach	Unauthorized disclosure of	Unauthorized disclosure of	Unauthorized disclosure of		
	confidential information has not	confidential information has not	confidential information has		
	occurred.	been determined.	occurred.		
Business Impact	Incident does not involve mission	Incident involves mission critical	Threat to other Department		
	critical services.	services.	information technology resources		
			<u>is high.</u>		
DoS/DDoS/TDoS	Affected resource(s) is not	Affected resource(s) has a	Affected resource(s) has a severe		
	considered mission critical.	moderate impact to production.	impact to production.		
Loss	Lost hardware that has low	Lost hardware with high monetary	Incident investigation and		
	monetary value or is not part of a	value or that is part of a mission	response is transferred to law		
	mission critical system.	critical system.	enforcement.		
<u>Malicious</u>	A single endpoint is infected.	Several endpoints are infected.	Widespread infection actively		
Code/Malware			impacting multiple departments or		
			districts.		
Misconfiguration	Misconfigured access controls that	Misconfigured access controls	Misconfigured access controls		
	have minimal impact on resources.	have moderate impact on	have severe impact on resources.		
		resources.			
Misuse	Misuse has minimal impact on	Misuse has moderate impact on	Misuse has severe impact on		
	resources.	resources.	resources.		
<u>New/Zero-Day</u>	Minimal impact on resources to the	Moderate impact on resources to	Severe impact on resources to the		
	extent of knowledge.	the extent of knowledge.	extent of knowledge.		
Phishing/Social	User or resource is affected that	User or resource is affected and	User or resource is affected and		
Engineering	does not deal with personal or	there is the potential for	there is confirmation that personal		
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Criteria	Class 1 – Low/Minimal	Class 2 - Medium	Class 3 – High/Critical
	confidential information.	compromise of personal or	or confidential information is
		confidential information.	compromised.
Policy Violation	Security policy violations	Security policy violations	Security policy violations
	determined by the Department that	determined by the Department that	determined by the Department that
	have the potential for minimal	have the potential to have	reach the level of requiring a
	impact.	moderate impact.	criminal investigation.
Public Interest	Low potential for public interest.	There is the potential for public	There is active public interest in
		interest.	the incident.
Ransomware	Resource is infected but was	Resource is infected and spread to	Resource is infected and has a
	prevented from spreading.	a minimal amount of other	severe impact on mission critical
		resources.	resources.
Scan/Probe	Reconnaissance attempts have	Reconnaissance attempts remain	Reconnaissance attempts are
	minimal impact on resources.	consistent.	preceded by an attack.
Service Disruption	Incident is within a single business	Incident affects multiple business	Disruption is wide spread across
	<u>unit.</u>	units within the Department.	the Department and/or other
			agencies.
<u>Theft</u>	Stolen hardware that has low	Stolen hardware with high	Incident investigation and
	monetary value or is not part of a	monetary value or that is part of a	response is transferred to law
	mission critical system.	mission critical system.	enforcement.
Threat Potential	Threat to other information	Threat to other Department	Incident has potential to become
	technology resources is minimal.	information technology resources	widespread across the Department
		is possible.	and/or threatens external, third-
			party information technology
			resources.
Unauthorized Access	Unapproved access that has not	Unapproved access that has	Unapproved access that has
	caused damage to resources.	caused moderate damage to	damaged mission critical
		resources.	resources.

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1.4.4 Incident Reclassification

An incident may be escalated or downgraded by any of the following actions:

- (1) Decision of the CSIRT leader or designee-
- (2) Decision of the CTT, CIO, ISM, or IG-
- (3) Request by Executive Management or the Department's Secretary-
- (4) Escalation of the magnitude of the event-

The reason for the escalation or downgrade must be documented as part of the process.

1.4.5 CSIRT Activation

Activating the CSIRT will be dependent upon the classification of the incident. Activating the CSIRT is when members of the team work together by sharing information, steps already taken, and recommendations for remediation and recovery.

Class	Response	Activate CSIRT?
<u>0</u>	Observable event but not considered an incident at the time.	No
<u>1</u>	Minimal impact to resources	No
2	Moderate impact to resources	Advise
<u>3</u>	Severe impact to resources	Yes

1.4.6 Incident Reporting Timeframes Process

The security incident reporting process must include notification procedures for timely reporting to the AST and Cybercrime Office as established in 943.0415, F.S. The following timeframes shall be followed:

FCS Rating	Rating Initial Definition of Effect Rating				pt Line width), Tab stops: 8.88", Right + Not at
	Notification			/ (Formatted: Font: 10 pt
Minimal	Monthly aggregate	Effect on IT resources managed by internal processes		//	Formatted: Font: 10 pt
Low	Weekly	Minimal effect on IT resources	///	//	Formatted: Font: 10 pt
Medium	One business day	Moderate effect on IT resources	////	4	Formatted: Font: 11 pt

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 High
 Within 4 hours
 Severe effect on IT resources or delivery of services

 Critical
 Immediately
 Severe effect on IT resources, believed to impact multiple agencies or delivery of services

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Incident reports will include the following:

(1) Executive summary

(2) Description of the incident

(3) CSIRT members participating

(4) CSIRT findings

(5) Conclusions

(6) Recommendations

After the conclusion of the computer security incident review, any and all new information relevant to the computer security incident must be documented in an amended final report.

1.5 INCIDENT REVIEW PROCESS

Class 2 and Class 3 incidents must involve a review process that is appropriate to the incident, thoroughly documented, and consistent with the Department's review procedures. All members of the CSIRT will document their actions thoroughly and retain copies of their documentation for future use.

1.5.1 Methodologies

The CSIRT will use current best practices in reviews.<u>and OIG-directed investigations</u>. These practices are intended to ensure the following:

(1) CSIRT reviews are preserved to the extent dictated by the current Department policies and pertinent laws, rules and regulations.

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- (2) Evidence and its integrity is properly preserved, collected, secured, and documented consistent with the chain of custody requirements prescribed in the OIG Audit Process as directed by the OIG.
- (3) Conclusions can be fully supported by all available evidence.
- (4) A full and complete review is conducted, free from contamination and from outside influence.
- (5) Appropriate confidentiality is maintained; ensuring information is properly handled and is provided only to those authorized.

1.5.2 Evidence Collection

1.5.2.1 Interviews

The CSIRT must conduct all interviews in a professional manner and document them during or immediately after the interview.

1.5.2.2 Evidence

Authorized personnel will collect and preserve evidence and its integrity according to Department procedures and will ensure the appropriate chain of custody. All physical evidence must be secured in a lockable location and all electronic evidence must be secured by appropriate network security. Only the Department-appointed custodian(s) of the evidence will have access to the evidence location, and they will account for the custody of all keys, lock combinations or electronic key cards. All transfers of evidence must be authorized, thoroughly documented and signed for. The evidence custodian(s) must be aware of location and physical security of evidence at all times.

1.6 DOCUMENTATION AND REPORTING PROCESS

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The CSIRT leader will report a summary of Class 1 incidents to the AST-CISO quarterly and will report all incidents classified or reclassified as a Class 2 or 3 incidents, to the AST-CISO within 24 hours. At the conclusion of the incident, the CSIRT leader will report the CSIRT's findings to management, including the CIO, and to AST-CISO. CSIRT incident reports will include the following:

(1) Executive summary

(2) Description of the incident

(3) CSIRT members participating

(4) CSIRT findings

(5) Conclusions

(6) Recommendations

(7) Form 325-060-04, Information Technology Resource Violation and/or Incident Reporting

After the conclusion of the computer security incident review, any and all new information relevant to the computer security incident must be documented in an amended final report.

1.76 INCIDENT RESOLUTION

The incident will be closed once either the CSIRT or OIG-delivers the final report to the appropriate parties, including the Department's Secretary and AST-CISO.

TRAINING:

None.

FORMS:

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The following form is available on the Department's Forms Library: None.

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