

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 information 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, F.S.
Rule Chapter 71A-1, Florida Administrative Code (F.A.C.)
Security and Use of Information Technology Resources, Topic No. 001-325-060
OIG Audit Process

TRAINING:

None.

FORMS:

The following form is available on the Department's Forms Library:

325-060-04, Information Technology Resource Violation and/or Incident Reporting

DEFINITIONS

AEIT-OIS — The Agency for Enterprise Information Technology – Office of Information Security. The AEIT-OIS guides, coordinates, and assists state agencies in identifying threats to information assets and mitigating vulnerabilities, so effective security controls can be implemented.

Availability — The principle that authorized users have access to information and assets.

Computer Security Incident — Any confirmed real or suspected adverse event in relation to the security of information, information technology resources, or both.

Confidentiality — The principle that information is only accessible to those authorized.

Information Security Manager (ISM) — The person designated to administer the Department's information resource security program in accordance with **Section 282.318(2) (a) 1, F.S.**, and the Department's internal and external point of contact for all information security matters.

Information Security Program — A coherent assembly of plans, project activities, and supporting resources contained within an administrative framework, the purpose of which is to support the Department's mission and establish controls to ensure adequate security for all information processed, transmitted or stored in Department automated information systems, e.g., information technology security plans, contingency plans, security awareness and training and systems acquisition, disposal and auditing.

Information Technology Resources — Department computer hardware, software, networks, devices, connections, applications, and data.

Integrity — The principle that ensures information remains intact, correct, and authentic. Integrity involves preventing unauthorized creation, modification, or destruction of information.

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 Security 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 Information Officer (CIO), but is accountable directly to the Secretary or designee.

1.2.2 Responsibilities of the CSIRT

The CSIRT will be responsible for the following activities:

- (1) Classifying Department security incidents.
- (2) Meeting upon notification of a reported computer security incident.
- (3) Conducting a preliminary assessment to determine the root cause, source, nature, and extent of damage.
- (4) Recommending responses to a computer security incident.
- (5) Selecting additional support members as necessary for the reported incident.
- (6) Maintaining confidentiality of information related to computer security incidents.
- (7) Assisting with recovery efforts and providing reports to the CIO.
- (8) Assessing the root cause, source, nature, and extent of damage of the suspected computer security incident.
- (9) Documenting all incidents (Classes 1, 2, and 3) using the ***Information Technology Resource Violation and/or Incident Reporting form (325-060-04)***.
- (10) Documenting incidents as appropriate. Examples include: lessons learned and recommended actions.
- (11) Reporting incidents to the AEIT-OIS.
- (12) Maintaining awareness of, and implementing procedures for, an effective response to computer security incidents.
- (13) Staying current on functional and security operations for the technologies within their individual area of responsibility.

1.2.3 CSIRT Meetings and Trainings

In accordance with **Rule 71A-1.014, 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, reviews and discussions covering portions of the Department's CSIRT procedure.

1.2.4 Conflicts of Interest

In cases where an incident may have originated from an employee or employees who report directly or indirectly to the CIO, the CSIRT will report a conflict of interest to the CIO. The CIO will implement a temporary alternative reporting structure to the Secretary or designee. In the event of a similar conflict of interest involving a core CSIRT member, the conflict must be reported to the designated CSIRT leader and to the CIO immediately. The CIO will determine the appropriate course of action based upon the circumstances surrounding the incident, and the nature of the conflict of interest.

1.3 CSIRT MEMBER ROLES AND RESPONSIBILITIES

The FDOT CSIRT Core team is comprised of the Information Security Manager, the Chief Information Officer, Office of Information Systems (OIS) Office Managers, Statewide Emergency Coordination Officer and a representative from the Office of Inspector General (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 FDOT CSIRT Advisory team will be convened. The CSIRT Advisory team will include all CSIRT Core members and be advised by representatives from the Office of General Counsel, Personnel Resource Management Office, and Public Information Office.

1.3.1 CSIRT Leadership

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

1.3.2 Role of the Chief Information Officer

Though the CSIRT is owned by FDOT, the 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 CIO or designee after conferring with the Secretary. The CIO is responsible for reporting incidents to FDOT executive management.

1.3.3 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. 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 AEIT-OIS 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, AEIT-OIS, and the CSIRT.

1.3.4 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 OIS office manager. In incidents of a highly sensitive or unique nature, the CSIRT leader and/or CIO may designate someone other than an OIS office manager as the CSIRT-IM.

1.3.5 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 Class 1, Class 2, or Class 3 incident based upon risk-based severity. These classifications allow for consistency among all state agencies. If an incident meets several criteria in different rating categories, the incident will be defined based on the highest rating.

The following criteria will be used to determine incident classification:

- (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

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.
- (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.

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 Chief Information Officer, Information Security Manager, 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.

1.5 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 and IG-directed investigations. 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.
- (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***.
- (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

The CSIRT leader will report a summary of Class 1 incidents to the AEIT-OIS quarterly and will report all incidents classified or reclassified as a Class 2 or 3 incidents, to the AEIT-OIS 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 AEIT. 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.

1.7 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 AEIT-OIS.