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## ~~Standard Statement – Data and System Security~~

~~Title: Data and System Security Classification~~

~~Document Number: SS 70-001~~

~~Effective Date: 5/15/2005~~

~~Published by: Office of the State ECIO~~

### ~~1.0 Purpose~~

~~This document presents a framework through which Arkansas' agencies, boards, commissions, and institutions of higher education can classify data and systems across the two spectrums of (1) data sensitivity and (2) data and system criticality. Once data is classified by the agency or institution of higher education, then appropriate security measures can be applied.~~

### ~~2.0 Scope~~

~~This standard statement applies to all state agencies, boards, commissions and institutions of higher education.~~

### ~~3.0 Background~~

~~The Arkansas Information Systems Act of 1997 (Act 914, 1997) gives the Office of Information Technology the authority to define standards, policies and procedures to manage the information resources within the state. This is accomplished through work with a multi-agency working group known as the Shared Technical Architecture Team.~~

~~In addition, Act 1042 of 2001 states that the Executive Chief Information Officer oversees the development of information technology security policy for state agencies. The State Security Office, under the state's Executive Chief Information Officer, defines an environment for strategic security architecture and sets security standards and policies for information technology in state government. In order to apply appropriate security measures, data must first be classified to determine its sensitivity and required availability.~~

### ~~4.0 References~~

~~4.1 Act 914 of 1997: Authorized the Office of Information Technology (OIT) to develop statewide policies.~~

~~4.2 Act 1042 of 2001: Authorized the Executive CIO to develop security policy.~~

### ~~5.0 Standard~~

~~5.1 Data owned and maintained by agencies shall be put into appropriate classification levels according to its sensitivity and criticality. Data security levels are as follows:~~

## ***Data Sensitivity Levels***

### **LEVEL A - UNRESTRICTED**

Unrestricted data is characterized as being open public data with no distribution limitations and to which anonymous access is allowed.

These data elements form information that is actively made publicly available by state government. It is published and distributed freely, without restriction. It is available in the form of physical documents such as brochures, formal statements, press releases, reports that are made freely available, and in electronic form such as internet web pages and bulletin boards accessible with anonymous access.

The greatest security threat to this data is from unauthorized or unintentional alteration, distortion, or destruction of this data. Security efforts appropriate to the criticality of the system containing this data must be taken to maintain its integrity.

Examples of data at this sensitivity level include many agency public websites.

### **LEVEL B - SENSITIVE**

These data elements are the information that is made available through open records requests or other formal or legal processes. This category includes the majority of the data contained within the state government electronic databases. Direct access to this data is restricted to authenticated and authorized individuals who require access to that information in the course of performing their duties.

Security threats to this data include unauthorized access, alteration and destruction concerns.

Examples:

- Most data elements in state personnel records
- Building code violations data
- Driver history records
- Collective bargaining data
- Employment & training program data
- Federal contracts data
- Firearm permits data
- Historical records repository data
- Real estate appraisal data
- Occupational licensing data
- Personnel data

### **LEVEL C - VERY SENSITIVE**

Data classified as being very sensitive is only available to internal authorized users and may be protected by federal and state regulations. Very sensitive data is intended for use only by individuals who require the information in the course of performing job functions.

These data elements include those protected by federal and state statute or regulation. Access to these data elements is restricted to authenticated and authorized individuals who require access to that information in the course of performing their duties. These are the data elements removed from responses to information requests for reasons of privacy.

Security threats to this data include violation of privacy statutes and regulations in addition to unauthorized alteration or destruction. If this data were accessed by unauthorized persons, it could cause financial loss or allow identity theft. Unauthorized disclosure could provide significant gain to a vendor's competitors.

Examples:

Social Security numbers	Credit card numbers
Most home addresses	Competitive bids
Attorneys' files	Civil investigative data
Comprehensive law enforcement data	Criminal history data
Domestic abuse data	Economic development assistance data
Educational records	Food assistance programs data
Foster care data	Head Start data
Health and medical data	Juvenile delinquent data
Library borrower's records	Counselors' data
Signature imaging data	Trade secrets data
Welfare records/data	

**LEVEL D – EXTREMELY SENSITIVE**

Data classified as being extremely sensitive is data whose disclosure or corruption could be hazardous to life or health.

These data elements are the most sensitive to integrity and confidentiality risks. Access is tightly restricted with the most stringent security safeguards at the system as well as the user level. Failure to maintain the integrity and confidentiality could have severe financial, health or safety repercussions. Very strict rules must be adhered to in the usage of this data.

Examples of this data include the contents of state law enforcement investigative records and communications systems.

**6.2 Data and systems should be put into appropriate classification levels according to their criticality. The levels of criticality and their descriptions are as follows:**

***Criticality Levels***

**LEVEL 1 – NOT CRITICAL**

These data and systems are necessary to state government but short term interruption or unavailability is acceptable. They do not play any role in the scheme of the health, security, or safety of Arkansas' citizens.

**LEVEL 2 – CRITICAL**

These data and systems are required in order to administer functions within state government that need to be performed. Business continuity planning allows state government to continue operations in these areas within a certain period of time until the data and systems can be restored.

**LEVEL 3 – EXTREMELY CRITICAL**

These data and systems are critical to public health or safety and must be protected by a vital plan that would allow resumption of operations within a very short timeframe. These data and systems also require restoration of the original facilities to be able to resume business.

**6.0 Procedures**

Agencies and institutions of higher education should classify their data and systems according to the data and system classification standard and be able to demonstrate compliance.

**7.0 Revision History**

Date	Description of Change
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5/15/2005

~~Original Standard Statement Published~~

## **8.0 Definitions**

### **8.1 Data**

Data is information maintained in any form within state agencies or institutions of higher education. Any grouping of data is classified at the level of its most sensitive or critical data element.

### **8.2 System**

In this context, the term system is defined as a combination of hardware, software, and procedures necessary to support particular data. A server may have multiple systems and a system may require multiple servers.

## **9.0 Related Resources**

9.1 COBIT Standards: <http://www.isaca.org/cobit.htm>

## **10.0 Inquiries**

Direct inquiries about this standard to:

Office of Information Technology

Shared Technical Architecture

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OIT policies can be found on the Internet at: <http://www.cio.arkansas.gov/techarch>

## **11.0 Attachment**

### **Data Sensitivity and System Criticality Grid**

The following grid allows agencies to classify data and systems at the same time for criticality and sensitivity.

**Rows Represent Data Sensitivity — Columns Represent System Criticality**

	<b>LEVEL 1 – NOT CRITICAL</b> Necessary to state government but short-term interruption of service acceptable. These systems do not play any role in the scheme of health, security, safety of the citizens, etc. They could be easily offset with manual procedures.	<b>LEVEL 2 – CRITICAL</b> Required to perform a critical service of state government. These systems will be required in order to administer functions within state government that need to be performed. Business continuity planning allows state government to continue operations in these areas within a certain period of time until the system can be restored.	<b>LEVEL 3 – EXTREMELY CRITICAL</b> Critical to health or safety. These systems must be protected by a vital plan that would allow resumption of operations within a very short timeframe. It also requires the ability to be able to resume business.
<b>LEVEL A – UNRESTRICTED</b> Open public data with no distribution limitations, anonymous access. May be anonymous access via electronic sources. (See Appendix A for expanded definition.) Example: Arkansas.gov website, ADEQ website, and other state agency public websites	1A	2A	3A
<b>LEVEL B – SENSITIVE</b> Public data with limited availability, but which requires a special application to be completed or special processing to be done prior to access (for example, to redact sensitive data elements). Examples: Most data elements in the state personnel records, data elements in motor vehicle records not restricted by privacy regulations, and driver history records	1B	2B	3B
<b>LEVEL C – VERY SENSITIVE</b> Data only available to internal authorized users. May be protected by federal and state regulations. Intended for use only by individuals who require the information in the course of performing job functions. Examples: Social security numbers, credit card numbers, home addresses, and competitive bids	1C	2C	3C
<b>LEVEL D – EXTREMELY SENSITIVE</b> Data whose disclosure or corruption could be hazardous to life or health. Examples: Contents of state law enforcement investigative records and communications systems	1D	2D	3D