

## **8045.S600 Logging Elements**

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**Implements:** CSU Policy #8045.0

**Policy Reference:** <http://www.calstate.edu/icsuam/sections/8000/8045.0.shtml>

### **Introduction**

Each campus must identify and implement appropriate logging and monitoring controls for information assets. These controls must take into consideration the technical capabilities of each resource.

### **1.0 Logging Elements**

- 1.1 At a minimum and as appropriate, taking into account the capabilities of the device or application creating the log entries, such controls must track and log the following events:
- a) Actions taken by any individual with root or administrative privileges
  - b) Changes to system configuration
  - c) Access to audit trails
  - d) Invalid access attempts (failed login)
  - e) Use of identification and authentication mechanisms (logins)
  - f) Notifications and alerts
  - g) Activation and de-activation of controls, such as anti-virus software or intrusion detection system
  - h) Changes to, or attempts to change system security settings or control.
- 1.2 For each of the above events, the following must be recorded, as appropriate:
- a) User identification
  - b) Type of event
  - c) Date and time
  - d) Success or failure indication
  - e) Data accessed
  - f) Program or utility used
  - g) Origination of event (e.g., network address)
  - h) Protocol
  - i) Identity or name of affected data, information system or network resource.
- 1.3 Each campus must establish procedures for the retention of logs and monitoring information.
- 1.4 Critical servers, at a minimum, must store a copy of their log data on another device; this copy must be protected from unauthorized access.
- 1.5 Each campus must establish methods for time synchronization of logging and monitoring activities.

## REVISION CONTROL

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### Revision History

Revision Date	Revised By	Summary of Revisions	Section(s) Revised
11/15/2011	Macklin	Incorporation of ISAC Comments	All
11/15/2011	Moske	Formatted	All
1/11/2012	Macklin	Format, final review	All

### Review / Approval History

Review Date	Reviewed By	Action (Reviewed, Recommended or Approved)
4/23/2013	ISAC	Reviewed, approved and recommended for CISO review
7/16/2013	CISO / Perry	Approved