



# DoDI 850-2 IA Control Checklist - MAC 3-Sensitive

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Developed by DISA for the DOD

UNCLASSIFIED

UNCLASSIFIED UNTILL FILLED IN

CIRCLE ONE

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Classification is based on classification of system reviewed:

Unclassified System = FOUO Checklist

Confidential System = CONFIDENTIAL Checklist

Secret System = SECRET Checklist

Top Secret System = SECRET Checklist

<b>Site Name</b>	
<b>Address</b>	
<b>Phone</b>	

<b>Position</b>	<b>Name</b>	<b>Phone Number</b>	<b>Email</b>	<b>Area of Responsibility</b>
IAM				
IAO				

**8500.2 COAS-1    V0008355    CAT II    An alternate site is not identified**

8500.2 IA Control: COAS-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2) ,  
NIST Special Publication 800-53 (SP 800-53)

**Vulnerability** An alternate site is not identified that permits the partial restoral of mission or business essential functions.

**Vulnerability Discussion** The inability to provide for partial restoral of mission and business essential functions can lead to mission failure in times of natural diaster, fire, or other catastrophic failure of the primary IS.

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**Checks**

**8500.2 COAS-1**

Validate that the disaster recovery plan reviewed in CODP -1 and COEF-1 includes an alternate site for partial restoration of mission or business essential functions.

Questions:

Is the alternate site identified?

Does it permit the partial restoration of mission or business essential functions?

Are agreements with the alternate site in place (NIST CP-7)

Is the necessary equipment and supplies either in place or contracts in place to allow ordering. (NIST CP-7)

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**Default Finding** The following issues were noted:

**Details** An alternate site is not identified that permits the partial restoration of mission or business essential functions.

Agreements with the alternate site are not in place (NIST CP-7)

The necessary equipment and supplies are either not in place or the contracts are not in place to allow ordering. (NIST CP-7)

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**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 COAS-1**

Identify alternate site that permits the partial restoration of mission or business essential functions.

Put formal agreements with the alternate site in place.

Ensure the necessary equipment and supplies are either in place or contracts in place to allow ordering.

Notes:

**8500.2 COBR-1    V0008357    CAT I    Inadequate Protection of Assets**

8500.2 IA Control: COBR-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate Protection of Backup and Restoration Assets

**Vulnerability Discussion** Protection of backup and restoral assets is essential for the successful restoral of operations after a catastrophic failure or damage to the system or data files. Failure to follow proper procedures may result in the permanent loss of system data and/or the loss of system capability resulting in failure of the customers mission.

**Checks**

**8500.2 COBR-1**

Validate that backup and recovery procedures incorporate protection of the backup and restoration assets.  
Note: This check validates the assets such as SANS, Tapes, backup directories, software, etc that house the backup data and the assets (equipment and system software) used for restoration. This does not address that the data is backed up appropriately.  
Back-up data is covered in CODB1 , 2, and 3.

**Default Finding Details** Protection of backup and restoral assets is inadequate.

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 COBR-1**

Develop and implement procedures to insure that backup and restoral assets are properly protected and stored in an area/location where it is unlike they would be affected by an event that would affect the primary assets.

Notes:

**8500.2 CODB-1    V0008358    CAT III    Data backup is not performed at least weekly.**

8500.2 IA Control: CODB-1

References: Department of Defense (DOD) Directive 8500.1, Information Assurance

**Vulnerability** Data backup is not performed at least weekly.

**Vulnerability Discussion** If backups are not properly processed, recovery of system failure or implementation of a contingency plan would not include the data necessary to fully recover.

**Checks**

**8500.2 CODB-1**

Validate that the procedures which detail that backups are to be performed at least weekly are implemented and the process is executed. A sampling of system backups should be checked to ensure compliance with the control. For lab tested systems ensure this requirement is addressed in the PM's deployment plan.

**Default Finding Details** Data backup is not performed at least weekly.

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 CODB-1**

Implement procedures which detail that backups are to be performed at least weekly and insure the process is properly executed.

Notes:

**8500.2 CODP-1    V0008361    CAT III    Inadequate Disaster Recovery Plan**

8500.2 IA Control: CODP-1

References: Department of Defense (DOD) Instruction 8500.2,  
Information Assurance (IA) Implementation

**Vulnerability** IDisaster Recovery Plan does not allow for the partial resumption of mission or business essential functions within 5 days.

**Vulnerability Discussion** Well thought out recovery plans are essential for system recovery and/or business restoral in the event of catastrophic failure or disaster.

**Checks**

**8500.2 CODP-1**

- Verify that a written plan exists that addresses the partial resumption of mission or business essential functions within 5 days of activation.
- Verify that the plan includes:
  - Business recovery plans.
  - System contingency plans.
  - Facility disaster recovery plans.
- Insure the plan has been officially accepted by the system owner or DAA.
- For lab tested systems ensure this requirement is addressed in the PM's deployment plan.

**Default Finding** The following issues were noted:

- Details**
- The Disaster Recovery Plan does not exist
  - The plan does not provide for partial resumption of mission or business essential function within 5 days
  - The plan does not contain business recovery plans
  - The plan does not contain system contingency plans
  - The plan does not contain facility disaster recovery plans
  - The plan has not been officially accepted

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 CODP-1**

- Develop a Disaster Recovery Plan for the Information System or Facility.
- Insure the plan:
  - Provides for partial resumption of function within 5 days contains business recovery plans.
  - Contains system contingency plans.
  - Contains facility disaster recovery plans.
- Is officially accepted by the IS or facility owner.

Notes:

**8500.2 COEB-1    V0008364    CAT II    Inadequate Alternate Site Boundary Defense**

8500.2 IA Control: COEB-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate Enclave Boundary Defense at the alternate site

**Vulnerability** Alternate site must provide security measures equivalent to the primary site in order to have the same degree of information assurance  
**Discussion** should relocation become necessary.

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**Checks**

**8500.2 COEB-1**

Examine the SLA or MOU/MOA for the backup site to ensure the details of the security requirements for the alternate site are addressed. Examine the alternate site or past reviews of the alternate site to ensure the alternate site provides security measures equivalent to the primary site. For Lab tested systems ensure this requirement is addressed in the PM's deployment plan.

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**Default Finding** Alternate site does not provide enclave boundary security measures equivalent to the primary site.  
**Details**

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**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 COEB-1**

Establish SLA or MOU/MOA with the backup site to ensure the details of the security requirements for the alternate site are addressed. Alternate site must provide security measures equivalent to the primary site.  
For Lab tested systems ensure this requirement is addressed in the PM's deployment plan.

Notes:

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**8500.2 COED-1      V0008366    CAT III      Inadequate exercising of COOP/DRP**

8500.2 IA Control: COED-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2) ,  
NIST Special Publication 800-53 (SP 800-53)

**Vulnerability** Inadequate exercising of continuity of operations or disaster recovery plans

**Vulnerability** If plans are not adequately exercised there can be no assurance they will work when required.

**Discussion**

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**Checks**

**8500.2 COED-1**

Examine the report of the last exercise of the COOP or DRP to ensure it is within the last 365 days and that critical steps of the plan were exercised.

Ensure a test of the backup media was included in the exercise.

Ensure the exercise plan includes a strategy for testing all parts of the COOP and DRP over a period of time.

Verify that appropriate officials within the organization review the contingency plan test results and initiate corrective actions. (NIST CP-4)

Verify that the organization coordinates contingency plan testing with organizational elements responsible for related plans (e.g., Business Continuity Plan, Disaster Recovery Plan, Continuity of Operations Plan, Business Recovery Plan, Incident Response Plan). (NIST CP-4)

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**Default Finding** The following issues were noted:

**Details**

Last exercise of the COOP or DRP was not within the last 365 days

Critical steps of the plan were not exercised.

Test of the backup media was not included in the exercise

The exercise plan does not include a strategy for testing all parts of the COOP and DRP over a period of time

No evidence found that appropriate officials within the organization reviewed the contingency plan test results and initiated corrective actions.

No evidence found that the organization coordinates contingency plan testing with organizational elements responsible for related plans (e.g., Business Continuity Plan, Disaster Recovery Plan, Continuity of Operations Plan, Business Recovery Plan, Incident Response Plan).

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**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 COED-1**

Set up procedures to insure the COOP or DRP is exercised annually and that critical steps of the plan are exercised. Ensure a test of the backup media is included in the exercise. Ensure the exercise plan includes a strategy for testing all parts of the COOP and DRP over a period of time.

Ensure that appropriate officials within the organization review the contingency plan test results and initiate corrective actions.

Ensure that the organization coordinates contingency plan testing with organizational elements responsible for related plans (e.g., Business Continuity Plan, Disaster Recovery Plan, Continuity of Operations Plan, Business Recovery Plan, Incident Response Plan).

Notes:

**8500.2 COEF-1      V0008368    CAT III      Essential functions are not identified**

8500.2 IA Control: COEF-1

References: Department of Defense (DOD) Instruction 8500.2,  
Information Assurance (IA) Implementation

**Vulnerability** Mission and business essential functions are not identified in the COOP/DRP

**Vulnerability Discussion** Identification and prioritization of essential functions is necessary for the proper application of resources when implementation of the coop or DRP becomes necessary.

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**Checks**

**8500.2 COEF-1**

Examine the COOP and DRP plan to ensure that mission and business essential functions are identified and prioritized.

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**Default Finding Details** Mission and business essential functions are not identified and prioritized in the COOP and DRP.

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**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 COEF-1**

Ensure that mission and business essential functions are identified and prioritized in the COOP and DRP plan.

Notes:

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## 8500.2 COMS-1 V0008370 CAT II Inadequate Maintenance support for key IT assets

8500.2 IA Control: COMS-1

References: Department of Defense (DOD) Instruction 8500.2,  
Information Assurance (IA) Implementation , NIST Special  
Publication 800-53 (SP 800-53)

**Vulnerability** Inadequate Maintenance support for key IT assets

**Vulnerability Discussion** Proper Maintenance is a key element of Information Assurance. Speed of response affects the capability to restore primary service and backups and careful control of all aspects of the maintenance process is necessary to maintain system integrity and to prevent compromise or theft of sensitive information or devices and system components.

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### Checks

#### 8500.2 COMS-1

Examine SLA and MOU/MOA and vendor agreements to ensure that that key assets are covered by a 24 hour response agreement.

Verify the organization schedules, performs, and documents routine preventative and regular maintenance on the components of the information system in accordance with manufacturer or vendor specifications and/or organizational requirements. NIST MA-2  
Verify that appropriate organizational officials approve the removal of the information system or information system components from the facility when repairs are necessary. NIST MA-2

Verify that if the information system or component of the system requires off-site repair, the organization removes all information from associated media using approved procedures. NIST MA-2

Verify that after maintenance is performed on the information system, the organization checks the security features to ensure that they are still functioning properly. NIST MA-2

· ( all Classified) Verify the organization approves, controls, and monitors the use of information system maintenance tools and maintains the tools on an ongoing basis. NIST MA-3

· (all Classified) NIST MA-3

(1) Verify that the organization inspects all maintenance tools (e.g., diagnostic and test equipment) carried into a facility by maintenance personnel for obvious improper modifications.

(2) Verify that the organization checks all media containing diagnostic test programs (e.g., software or firmware used for system maintenance or diagnostics) for malicious code before the media are used in the information system.

(3) Verify that the organization checks all maintenance equipment with the capability of retaining information to ensure that no organizational information is written on the equipment or the equipment is appropriately sanitized before release; if the equipment

cannot be sanitized, the equipment remains within the facility or is destroyed, unless an appropriate organization official explicitly authorizes an exception.

Remote Maintenance (NIST MA-4)

· Verify the organization approves, controls, and monitors remotely executed maintenance and diagnostic activities.

· Verify the organization describes the use of remote diagnostic tools in the security plan for the information system.

· Verify the organization maintains maintenance logs for all remote maintenance, diagnostic, and service activities.

· Verify that appropriate organization officials periodically review maintenance logs.

· Other techniques to consider for improving the security of remote maintenance include: (i) encryption and decryption of diagnostic

communications; (ii) strong identification and authentication techniques, such as Level 3 or 4 tokens as described in NIST Special

Publication 800-63; and (iii) remote disconnect verification.

· Verify that when remote maintenance is completed, the organization (or information system in certain cases) terminates all sessions and remote connections.

· Verify that if password-based authentication is used during remote maintenance, the organization changes the passwords following each remote maintenance service.

· Verify that if remote diagnostic or maintenance services are required from a service or organization that does not implement for

its own information system the same level of security as that implemented on the system being serviced, the system being serviced

is sanitized and physically separated from other information systems before the connection of the remote access line. If the information system cannot be sanitized (e.g., due to a system failure), remote maintenance is not allowed.

Control Enhancements ( classified):

(1) The organization audits all remote maintenance sessions, and appropriate organizational personnel review the audit logs of the remote sessions.

(2) The organization addresses the installation and use of remote diagnostic links in the security plan for the information system.

(3) Remote diagnostic or maintenance services are acceptable if performed by a service or organization that implements for its own

information system the same level of security as that implemented on the information system being serviced.

For Lab tested systems ensure this requirement is addressed in the PM's deployment plan.

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**Default Finding** The following issues were noted:  
**Details** key assets are not covered by a 24 hour response agreement.  
the organization does not schedule, performs, and document routine preventative and regular maintenance on the components of the information system in accordance with manufacturer or vendor specifications and/or organizational requirements. NIST MA-2  
No evidence that appropriate organizational officials must approve the removal of the information system or information system components from the facility when repairs are necessary. NIST MA-2  
No evidence that if the information system or component of the system requires off-site repair, the organization removes all information from associated media using approved procedures. NIST MA-2  
No evidence that after maintenance is performed on the information system, the organization checks the security features to ensure that they are still functioning properly. NIST MA-2  
( all Classified) no evidence that the organization approves, controls, and monitors the use of information system maintenance tools and maintains the tools on an ongoing basis. NIST MA-3  
No evidence that the organization inspects all maintenance tools (e.g., diagnostic and test equipment) carried into a facility by maintenance personnel for obvious improper modifications.  
No evidence that the organization checks all media containing diagnostic test programs (e.g., software or firmware used for system maintenance or diagnostics) for malicious code before the media are used in the information system.  
No evidence that the organization checks all maintenance equipment with the capability of retaining information to ensure that no organizational information is written on the equipment or the equipment is appropriately sanitized before release; if the equipment cannot be sanitized, the equipment remains within the facility or is destroyed, unless an appropriate organization official explicitly authorizes an exception.  
Remote Maintenance (NIST MA-4)  
No evidence that the organization approves, controls, and monitors remotely executed maintenance and diagnostic activities.  
No evidence that the organization describes the use of remote diagnostic tools in the security plan for the information system.  
No evidence that the organization maintains maintenance logs for all remote maintenance, diagnostic, and service activities.  
No evidence that that appropriate organization officials periodically review maintenance logs.  
No evidence that that when remote maintenance is completed, the organization (or information system in certain cases) terminates all sessions and remote connections.  
No evidence that if password-based authentication is used during remote maintenance, the organization changes the passwords following each remote maintenance service.  
No evidence that if remote diagnostic or maintenance services are required from a service or organization that does not implement for its own information system the same level of security as that implemented on the system being serviced, the system being serviced is sanitized and physically separated from other information systems before the connection of the remote access line. If the information system cannot be sanitized (e.g., due to a system failure), remote maintenance is not allowed.  
Control Enhancements ( classified):  
No evidence that the organization audits all remote maintenance sessions, and appropriate organizational personnel review the audit logs of the remote sessions.  
No evidence that the organization addresses the installation and use of remote diagnostic links in the security plan for the information system.

OPEN:  NOT A FINDING:  NOT REVIEWED:  NOT APPLICABLE:

**Fixes**

**8500.2 COMS-1**

Establish or amend SLA and MOU/MOA and vendor agreements to ensure that that key assets are covered by a 24 hour response agreement. Insure the organization schedules, performs, and documents routine preventative and regular maintenance on the components of the information system in accordance with manufacturer or vendor specifications and/or organizational requirements. NIST MA-2 Insure that appropriate organizational officials approve the removal of the information system or information system components from the facility when repairs are necessary. NIST MA-2 Insure that if the information system or component of the system requires off-site repair, the organization removes all information from associated media using approved procedures. NIST MA-2 ( all Classified)  
Insure that after maintenance is performed on the information system, the organization checks the security features to ensure that they are still functioning properly.  
Insure the organization approves, controls, and monitors the use of information system maintenance tools and maintains the tools on an ongoing basis.  
(all Classified) NIST MA-3 Insure that the organization inspects all maintenance tools (e.g., diagnostic and test equipment) carried into a facility by maintenance personnel for obvious improper modifications.  
Insure that the organization checks all media containing diagnostic test programs (e.g., software or firmware used for system maintenance or diagnostics) for malicious code before the media are used in the information system.  
( all Classified) that the organization checks all maintenance equipment with the capability of retaining information to ensure that no organizational information is written on the equipment or the equipment is appropriately sanitized before release; if the equipment cannot be sanitized, the equipment remains within the facility or is destroyed, unless an appropriate organization official explicitly authorizes an exception. Remote Maintenance (NIST MA-4)  
Insure the organization approves, controls, and monitors remotely executed maintenance and diagnostic activities.  
Insure the organization describes the use of remote diagnostic tools in the security plan for the information system. Insure the organization maintains maintenance logs for all remote maintenance, diagnostic, and service activities.  
Insure that appropriate organization officials periodically review maintenance logs. Other techniques to consider for improving the security of remote maintenance include: (i) encryption and decryption of diagnostic communications; (ii) strong identification and authentication techniques, such as Level 3 or 4 tokens as described in NIST

Special  
 Publication 800-63; and (iii) remote disconnect verification.  
 Insure that when remote maintenance is completed, the organization (or information system in certain cases) terminates all sessions and remote connections.  
 Insure that if password-based authentication is used during remote maintenance, the organization changes the passwords following each remote maintenance service.  
 Insure that if remote diagnostic or maintenance services are required from a service or organization that does not implement for its own information system the same level of security as that implemented on the system being serviced, the system being serviced is sanitized and physically separated from other information systems before the connection of the remote access line. If the information system cannot be sanitized (e.g., due to a system failure), remote maintenance is not allowed.  
 Control Enhancements (classified):  
 Insure The organization audits all remote maintenance sessions, and appropriate organizational personnel review the audit logs of the remote sessions.  
 Insure The organization addresses the installation and use of remote diagnostic links in the security plan for the information system.  
 Note: Remote diagnostic or maintenance services are acceptable if performed by a service or organization that implements for its own information system the same level of security as that implemented on the information system being serviced.

Notes:

**8500.2 COPS-1      V0008372 CAT III      Lack of power generators**

8500.2 IA Control: COPS-1

References: Department of Defense (DOD) Instruction 8500.2,  
Information Assurance (IA) Implementation

**Vulnerability** Lack of power generators

**Vulnerability Discussion** The availability of manually activated power generators would prevent extended outages of the Information System upon loss of electrical power from the primary source.

**Checks**

**8500.2 COPS-1**

Verify that a generator is available for support of key assets.  
 For Lab tested systems ensure this requirement is addressed in the PM's deployment plan.

**Default Finding Details** No manually activated power generators are available to restore power to key assets upon loss of electrical power from the primary source.

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 COPS-1**

Procure or set up a capability to lease a generator for support of key assets during extended power outages.  
 Note: The DOD IA Controls allow 5 days to restore MAC 3 systems thus a prearranged lease option is probably the best alternative.

Notes:

**8500.2 COSP-1 V0008375 CAT II Maintenance spares not available within 24 hrs**

8500.2 IA Control: COSP-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Maintenance spares and spare parts for key IT assets cannot be obtained within 24 hours of failure.

**Vulnerability Discussion** a source for spare parts for key IT assets is essential for rapid restoral of systems in the event of equipment failure. Failure to have such sources in place can lead to extended periods when the system is unavailable to perform its function.

**Checks**

**8500.2 COSP-1**

Examine SLA and MOU/MOA and vendor agreements to ensure spare parts for key assets are covered by a 24 hour response agreement.  
For Lab tested systems ensure this requirement is addressed in the PM's deployment plan.

**Default Finding Details** Maintenance spares and spare parts for key IT assets cannot be obtained within 24 hours of failure.

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 COSP-1**

Modify or implement SLA and MOU/MOA and vendor agreements to ensure spare parts for key assets are covered by a 24 hour response agreement.

Notes:

**8500.2 COSW-1 V0008377 CAT I Inadequate Back-up Software**

8500.2 IA Control: COSW-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate Back-up Software

**Vulnerability Discussion** Inadequate back-up software or improper storage of back-up software can result in extended outages of the information system in the event of a fire or other situation that results in destruction of the operating copy.

**Checks**

**8500.2 COSW-1**

Verify that a licensed copy of the operating system software and other critical software is in a fire rated container or stored separately (offsite) from the operational software.  
For Lab tested systems ensure this requirement is addressed in the PM's deployment plan.

**Default Finding Details** The following issues were noted:  
There are no back-up copies of the operating system and other critical software  
Back-up copies of the operating system and other critical software are collocated with the operational software and not stored in a fire rated container.

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 COSW-1**

Store a licensed copy of the operating system software and other critical software in a fire rated container or store it separately (off-site) from the operational software.

Notes:

## 8500.2 COTR-1 V0008378 CAT I Inadequate Recovery Procedures

8500.2 IA Control: COTR-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate Recovery Procedures

**Vulnerability Discussion** Improper system recovery can result in loss or compromise of sensitive information and/or compromise of the system by unauthorized individuals who seize the opportunity to exploit known vulnerabilities.

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### Checks

#### 8500.2 COTR-1

Verify that the DRP or SOP has recovery procedures that indicate the steps needed for secure recovery. Verification process can include original COTS or GOTS installation media or a hash of the installation program.

Verify that the recovery procedures include any special considerations for trusted recovery such as network attachment or placement.

Verify the procedures include the list of authorized personnel that perform the function.

For Lab tested systems ensure this requirement is addressed in the PM's deployment plan.

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**Default Finding** The following issues were noted:

**Details** Recovery procedures and technical system features do not exist to ensure that recovery is done in a secure and verifiable manner. Circumstances that can inhibit a trusted recovery are not documented. Circumstances that can inhibit trusted recover are documented but appropriate mitigating procedures are not in place. There is no list of personnel authorized to perform the recover function.

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**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

### Fixes

#### 8500.2 COTR-1

Insure that the DRP or SOP has recovery procedures that indicate the steps needed for secure recovery. Verification process can include original COTS or GOTS installation media or a hash of the installation program.

Ensure the recovery procedures include any special considerations for trusted recovery such as network attachment or placement.

Ensure the recovery procedure includes the list of authorized personnel that perform the function.

For Lab tested systems, ensure this requirement is addressed in the PM's deployment plan.

Notes:

**8500.2 DCAR-1    V0008379    CAT II    No Annual Comprehensive IA Review**

8500.2 IA Control: DCAR-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** No Annual Comprehensive IA Review

**Vulnerability Discussion** A comprehensive annual IA review that evaluates existing policies and processes is necessary to ensure consistency and to ensure that procedures fully support the goal of uninterrupted operations.

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**Checks**

**8500.2 DCAR-1**

Examine the results of the last comprehensive IA review (including self assessments). Verify the review has been performed within the last 365 days.

Note: An Information Assurance Readiness Review (IARR) is a comprehensive review.

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**Default Finding Details** No Annual IA Review is conducted that comprehensively evaluates existing policies and processes to ensure procedural consistency and to ensure that they fully support the goal of uninterrupted operations.

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**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 DCAR-1**

Arrange for, or perform a comprehensive IA review every 12 months.

Notes:

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## 8500.2 DCAS-1 V0008380 CAT I Unevaluated IA Products Procured

8500.2 IA Control: DCAS-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Unevaluated IA Products Procured

**Vulnerability Discussion** IA or IA enabled products that have not been evaluated can not be trusted to operate as advertised.

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### Checks

#### 8500.2 DCAS-1

This policy applies to the acquisition process. Verify for new system or product acquisitions that the PM or site manager is compliant with the policy.

Review the SSAA for a list of the products used. The list should detail the information regarding compliance with this control. If the validation information is not listed, verify the products are listed on the NIST or FIPS web sites. The NIST web site ([www.nist.gov](http://www.nist.gov)) lists the NIAP approved software and the FIPS approved and validated algorithms.

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**Default Finding Details** The acquisition of IA- and IA-enabled GOTS IT products is not limited to products that have been evaluated by the NSA or in accordance with NSA-approved processes.

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**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

### Fixes

#### 8500.2 DCAS-1

Limit the acquisition of all IA- and IA-enabled COTS IT products to products that have been evaluated or validated through one of the following sources

- the International Common Criteria (CC) for Information Security Technology Evaluation Mutual Recognition Arrangement,
- the NIAP Evaluation and Validation Program, or
- the FIPS validation program.

Robustness requirements, the mission, and customer needs will enable an experienced information systems security engineer to recommend a Protection Profile, a particular evaluated product or a security target with the appropriate assurance requirements for a product to be submitted for evaluation.

The NIST web site ([www.nist.gov](http://www.nist.gov)) lists the NIAP approved software and the FIPS approved and validated algorithms.

Notes:

## 8500.2 DCBP-1 V0008381 CAT II Inadequate Security Design

8500.2 IA Control: DCBP-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate Security Design

**Vulnerability Discussion** Use of security best practices makes security implementation and checking easier and results in fewer security problems. Security designs should follow appropriate security guidance and employ DOD Defense in depth techniques.

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### Checks

#### 8500.2 DCBP-1

This deals with processes, procedures, and system design/enclave architecture. This check does not deal with configuration settings. Types of items to be checked include:

- Strong (2 factor) Authentication for management/admin traffic
- Presence of a firewall (not firewall configuration settings)
- Non-Use of Unsupported Software
- Biometrics
- Publicly accessible systems are in a DMZ
- Out of Band Management
- Two person control
- Presence of ACLs (not the actual ACL settings)
- Security designs should follow appropriate security guidance and employ DOD Defense in depth techniques.

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**Default Finding Details** The DoD information system security design does not incorporate best security practices such as single sign-on, PKE, smart card, and biometrics. Security designs should follow appropriate security guidance and employ DOD Defense in depth techniques.

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**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

### Fixes

#### 8500.2 DCBP-1

- Consider the following enhancements to the system design:
- Strong (2 factor) Authentication for management/admin traffic
  - A firewall
  - Non-Use of Unsupported Software
  - Biometrics
  - DMZ for Publicly accessible systems
  - Out of Band Management
  - Two person control
  - Use of ACLs

Notes:

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**8500.2 DCCB-1 V0008382 CAT III Inadequate Configuration Control Board (CCB)**

8500.2 IA Control: DCCB-1

References: Department of Defense (DOD) Instruction 8500.2,  
Information Assurance (IA) Implementation

**Vulnerability** Inadequate Configuration Control Board (CCB)

**Vulnerability Discussion** Security integrity of the system and the ability to back-up and recover from failures cannot be maintained without control of the system configuration. Unless the configuration is controlled by an independent board it much less likely to be in its approved and accredited state.

**Checks**

**8500.2 DCCB-1**

Verify that the system is controlled by a CCB that meets regularly.  
This should be documented in the SOP for system changes and/or the SSAA.

**Default Finding Details** Information systems are not under the control of a chartered Configuration Control Board (CCB) that meets regularly according to DCPR-1.  
The existence of the CCB is not documented in the SOP for system Changes and/or the SSAA

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 DCCB-1**

Put the system(s) under the control of a chartered CCB that meets regularly.  
Document this in the SOP for system changes and/or the SSAA.

Notes:

**8500.2 DCCS-1 V0008384 CAT I Approved Security Configuration Guidance not used**

8500.2 IA Control: DCCS-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Approved Security Configuration Guidance not used.

**Vulnerability Discussion** Use of approved configuration guidance ensures the system is initially free of security issues inherent in newly deployed IA and IA enabled products.

**Checks**

**8500.2 DCCS-1**

This check ensures the SAs and NAs use DOD approved or other acceptable configuration security documents as their primary source of security guidance. This does not check the actual configuration compliance with the approved guides. Compliance with the guides is checked with ECSC - 1.

**Default Finding Details** The organization does not use A DoD reference document, such as a Security Technical Implementation Guide (STIG) or Security Recommendation Guide (SRG) as the primary source for security configuration or implementation guidance for the deployment of newly acquired IA- and IA-enabled IT products.

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 DCCS-1**

Implement policy and procedures that requires the SAs and NAs use DOD approved or other acceptable configuration security documents as their primary source of security guidance.

Notes:

## 8500.2 DCCT-1    V0008386    CAT II    Inadequate Deployment Procedures

8500.2 IA Control: DCCT-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate Deployment Procedures

**Vulnerability Discussion** Undocumented procedures for upgrading or deploying new hardware, software or software upgrades can lead to inconsistent deployments which can cause incompatibility problems between devices and systems and/or possible security holes. These problems or holes can lead to slowdowns or outages on the network or unauthorized access or attacks on DoD assets.

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### Checks

#### 8500.2 DCCT-1

Ensure procedures exist which address the testing and implementation process for all patches, upgrades and AIS deployments. The procedures should be in the Configuration Management Plan.  
For Lab tested systems ensure the PM details the testing and release process and addresses change control in the PM's deployment plan.

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**Default Finding Details** Procedures which address the testing and implementation process for all patches, upgrades and AIS deployments do not exist.

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**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

### Fixes

#### 8500.2 DCCT-1

Ensure procedures exist which address the testing and implementation process for all patches, upgrades and AIS deployments. The procedures should be in the Configuration Management Plan.  
For Lab tested systems ensure the PM details the testing and release process and addresses change control in the PM's deployment plan.

Notes:

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**8500.2 DCDS-1 V0008387 CAT II Outsourcing Risk Assessment**

8500.2 IA Control: DCDS-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2) ,  
NIST Special Publication 800-53 (SP 800-53)

**Vulnerability** Outsourcing Risk Assessment

**Vulnerability Discussion** Formal risk assessment is necessary to insure that all IA requirements are considered in outsourcing situations. DOD Component CIO Approval is required.

---

**Checks**

**8500.2 DCDS-1**

Determine if the PM or enclave owner is outsourcing any IA services supporting the application or enclave. If so, determine if the DOD Component CIO has approved a formal risk analysis of the acquisition or the outsourcing of an IA service.  
Verify that the IA Requirements are identified in the acquisition of all system technologies and supporting infrastructures (NIST SA-4)  
Verify the activity monitors compliance with contracted security requirements. (NIST SA-4)

---

**Default Finding** The following issues were noted:

**Details** Outsourcing of an IA service was accomplished without a formal risk assessment.  
Risk assessment was not approved by the DOD Component CIO  
IA Requirements are not adequately identified in the acquisition of system technologies and/or supporting infrastructures. (NIST SA-4)  
Contracted security requirements are not adequately monitored. (NIST SA-4)

---

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 DCDS-1**

Complete a formal risk assessment and obtain DOD Component CIO approval before outsourcing of an IA service.  
Insure IA Requirements are identified in the acquisition of all system technologies and supporting infrastructures.  
Insure the activity monitors compliance with contracted security requirements.

Notes:

## 8500.2 DCFA-1 V0008388 CAT II Inadequate Functional Architecture Documentation

8500.2 IA Control: DCFA-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2) ,  
NIST Special Publication 800-53 (SP 800-53)

**Vulnerability** Inadequate Functional Architecture Documentation

**Vulnerability Discussion** The detailed functional architecture must be documented in the SSAA to insure all risks are assessed and mitigated to the maximum extent practical. Failure to do so may result in unexposed risk and failure to mitigate the risk leading to failure or compromise of the system.

### Checks

#### 8500.2 DCFA-1

This applies to major functional applications.

Examine the SSAA for the AIS to determine if the following are present and up to date (The Network reviewer can verify the external interface information is in accordance with the documentation.):

All external interfaces

The information being exchanged

The protection mechanisms associated with each interface

User roles required for access control and the access privileges assigned to each role (See ECAN)

Unique security requirements (e.g., encryption of key data elements at rest)

Categories of sensitive information processed or stored by the AIS application, and their specific protection plans (e.g., Privacy Act, HIPAA)

Restoration priority of subsystems, processes, or information (See COEF)

Verify the organization includes documentation describing the design and implementation details of the security controls employed

within the information system with sufficient detail to permit analysis and testing of the controls (including functional interfaces among control components) NIST SA-5

**Default Finding** The following issues were noted:

**Details** The documentation of the functional architecture is not up to date

The functional architecture documentation does not contain:

All external interfaces

The information being exchanged

The protection mechanisms associated with each interface

User roles required for access control

The access privileges assigned to each role

Unique security requirements (e.g., encryption of key data elements at rest)

Categories of sensitive information processed or stored by the AIS application

Specific protection plans (e.g., Privacy Act, HIPAA)

Restoration priority of subsystems, processes, or information

The organization has not included documentation describing the design and implementation details of the security controls employed within the information system with sufficient detail to permit analysis and testing of the controls (including functional interfaces among control components). NIST SA-5

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

### Fixes

#### 8500.2 DCFA-1

This applies to major functional applications.

Amend the SSAA for the AIS to ensure the following are present and up to date:

All external interfaces

The information being exchanged

The protection mechanisms associated with each interface

User roles required for access control and the access privileges assigned to each role (See ECAN)

Unique security requirements (e.g., encryption of key data elements at rest)

Categories of sensitive information processed or stored by the AIS application, and their specific protection plans (e.g., Privacy Act, HIPAA)

Restoration priority of subsystems, processes, or information (See COEF)

Include documentation describing the design and implementation details of the security controls employed

within the information system with sufficient detail to permit analysis and testing of the controls (including functional interfaces among control components) NIST SA-5

Notes:

**8500.2 DCHW-1 V0008389 CAT I Inadequate baseline inventory of hardware**

8500.2 IA Control: DCHW-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2) ,  
NIST Special Publication 800-53 (SP 800-53)

**Vulnerability** Inadequate baseline inventory of hardware

**Vulnerability Discussion** Rigid control of the system baseline is required if the system is to have any assurance of Information Systems Security. New vulnerabilities are discovered continuously in commercial systems. Care must be taken to track all versions of all commercial products in use so that these deficiencies can be fixed quickly since they are almost immediately the subject of attempted exploits.

**Checks**

**8500.2 DCHW-1**

Examine the hardware inventory and to ensure it includes the manufacturer, type, model, and physical location of each device and spot check to ensure it is up to date. Ensure backup copies of hardware inventories are either stored off-site or in a fire-rated container.  
Other requirements (from NIST CM-2):  
(1) MAC 1 &2 and all Classified -The organization updates the baseline configuration as an integral part of information system component installations.  
(2) MAC 1 - The organization employs automated mechanisms to maintain an up-to-date, complete, accurate, and readily available baseline configuration.

**Default Finding** The following issues were noted:  
**Details** There was no Baseline inventory of hardware.  
The baseline inventory is not properly stored.  
The baseline inventory was not complete.  
The baseline inventory is out of date.  
The baseline inventory does not contain all required elements of information  
The organization does not update the baseline configuration as an integral part of information system component installations. (NIST CM-2)  
The organization does not employ automated mechanisms to maintain an up-to-date, complete, accurate, and readily available baseline configuration. (NIST CM-2)

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 DCHW-1**

Compile A current and comprehensive baseline inventory of all hardware (HW) (to include manufacturer, type, model, physical location and network topology or architecture) required to support enclave operations and set up procedures to insure it is maintained by the Configuration Control Board (CCB) and as part of the SSAA.  
  
A backup copy of the inventory must be stored in a fire-rated container or otherwise not collocated with the original.  
  
Other requirements (from NIST CM-2):  
(1) MAC 1 &2 and all Classified -The organization updates the baseline configuration as an integral part of information system component installations.  
(2) MAC 1 - The organization employs automated mechanisms to maintain an up-to-date, complete, accurate, and readily available baseline configuration.

Notes:

**8500.2 DCID-1      V0008390   CAT I      Inadequate Interconnection Documentation in SSAA**

8500.2 IA Control: DCID-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate Interconnection Documentation in the SSAA

**Vulnerability Discussion** Full interconnection documentation is required to ensure that adequate security controls are built into the system and tested before deployment.

---

**Checks**

**8500.2 DCID-1**

Examine the SSAA.

For applications: Determine if there is a list of current and potential hosting enclaves for the AIS application. Ensure that there is documentation in the deployment guide which details the requirements for the hosting enclave.

For enclaves:

Ensure there is a list of the hosted AIS applications and interconnections with outsourced IT-based processes and interconnected IT platforms.

---

**Default Finding** The following issues were noted:

**Details**

For applications:

There is not a list of current and potential hosting enclaves for the AIS application.

There is no documentation in the deployment guide which details the requirements for the hosting enclave.

For enclaves:

There is no list of the hosted AIS applications and interconnections with outsourced IT-based processes and interconnected IT platforms.

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 DCID-1**

For applications:

Compile a list of current and potential hosting enclaves for the AIS application.

Ensure that there is documentation in the deployment guide which details the requirements for the hosting enclave.

For enclaves:

Ensure there is a list of the hosted AIS applications and interconnections with outsourced IT-based processes and interconnected IT platforms.

Notes:

**8500.2 DCII-1      V0008391   CAT II      Proposed changes not assessed for IA impact**

8500.2 IA Control: DCII-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Proposed changes not assessed for IA impact

**Vulnerability Discussion** IA assessment of proposed changes is necessary to insure security integrity is maintained.

**Checks**

**8500.2 DCII-1**

Examine the CCB process documentation to ensure potential changes to the AIS or the enclave are evaluated to determine impact on IA (to include connection approval) and the accreditation.

**Default Finding Details** Changes to the DoD information system are not assessed for IA and accreditation impact prior to implementation.

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 DCII-1**

Amend the CCB process documentation to require that potential changes to the AIS or the enclave are evaluated to determine impact on IA (to include connection approval) and the accreditation.

Notes:

**8500.2 DCIT-1      V0008392   CAT I      Acquisition does not address IA roles**

8500.2 IA Control: DCIT-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Acquisition does not address IA roles and responsibilities.

**Vulnerability Discussion** Security procedures are vital to ensure the integrity, confidentiality and availability of systems and data. In outsourcing situations the requirements and responsibilities to perform them must be spelled out to ensure all are accomplished.

**Checks**

**8500.2 DCIT-1**

Examine acquisition and outsourcing documents including task orders to ensure IT services explicitly addresses Government, service provider, and end user IA roles and responsibilities. Ensure the organization monitors compliance.

**Default Finding Details** The following issues were noted:  
Government, service provider, and end user IA roles and responsibilities are not explicitly stated in acquisition or outsourcing requirements.  
The organization is not monitoring compliance of IT roles and responsibilities in outsourcing agreements.

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 DCIT-1**

Amend IT services acquisition and outsourcing documents including task orders to ensure explicitly addresses Government, service provider, and end user IA roles and responsibilities are explicitly addressed .  
Insure the organization monitors contractor compliance with all contract provisions plus applicable federal laws, directives, policies, regulations, standards, guidance, and established service level agreements .

Notes:

## 8500.2 DCMC-1 V0008393 CAT II Improper Use of Mobile Code

8500.2 IA Control: DCMC-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Improper Use of Mobile Code

**Vulnerability Discussion** Improper use of mobile code equals compromised systems and data

---

### Checks

#### 8500.2 DCMC-1

Use input from the following checklists and PDIs to determine the status of this check:

1. Application Checklist - Mobile Code Section
2. Desktop Application Checklist - Browser Checks, Office Automation Checks, General Windows Checks
3. If the application or device under test is not covered in the checklist, question the PM to determine how they meet the intent of this control.

---

**Default Finding Details** The following issues were noted:  
Emerging mobile code technologies that have not undergone a risk assessment by NSA and been assigned to a Risk Category by the DoD CIO is used.

The following issues were noted:

- Emerging mobile code technologies that have not undergone a risk assessment by NSA and been assigned to a Risk Category by the DoD CIO are in use
- Unsigned category 1 mobile code is used (must be signed with a DoD-approved PKI code-signing certificate; Use of unsigned Category 1 mobile code is prohibited)
- Category 1 mobile code technologies that cannot block or disable unsigned mobile code (e.g., Windows Scripting Host) is in use
- Untrusted Category 2 mobile code is in use ( Category 2 mobile code which executes in a constrained environment without access to system resources (e.g., Windows registry, file system, system parameters, network connections to other than the originating host) may be used. Category 2 mobile code that does not execute in a constrained environment may be used when obtained from a trusted source over an assured channel (e.g., SIPRNET, SSL connection, S/MIME), code is signed with a DoD-approved code signing certificate. All other use of Category 2 mobile code is prohibited.
- DoD workstation and host software are configured to allow the download and execution of mobile code that is prohibited
- Automatic execution of all mobile code in email is allowed
- E-mail software is not configured to prompt the user prior to executing mobile code in attachments

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**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

### Fixes

#### 8500.2 DCMC-1

- Discontinue use of all emerging mobile code technologies that have not undergone a risk assessment by NSA and been assigned to a Risk Category by the DoD CIO.
- Discontinue use of all category 1 mobile code that is not signed with a DoD-approved PKI code-signing certificate.
- Discontinue use of Category 1 mobile code technologies that cannot block or disable unsigned mobile code (e.g., Windows Scripting Host)
- Category 2 mobile code, which executes in a constrained environment without access to system resources (e.g., Windows registry, file system, system parameters, network connections to other than the originating host) may be used. Category 2 mobile code that does not execute in a constrained environment may be used when obtained from a trusted source over an assured channel (e.g., SIPRNET, SSL connection, S/MIME), code is signed with a DoD-approved code signing certificate. Discontinue all other use of Category 2 mobile code.
- Configure all DoD workstation and host software , to the extent possible, to prevent the download and execution of mobile code that is prohibited
- Prohibit the automatic execution of all mobile code in email.
- Configure all e-mail software to prompt the user prior to executing mobile code in attachments.

Notes:



**8500.2 DCNR-1    V0008394    CAT II    Algorithms are not FIPS 140-2 compliant**

8500.2 IA Control: DCNR-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Algorithms are not FIPS 140-2 compliant

**Vulnerability Discussion** Approved algorithms are necessary to prevent compromise and theft of data.

---

**Checks**

**8500.2 DCNR-1**

Determine the functions of the application and the enclave (network) that address:  
Digital signature  
Hash  
Determine algorithms being used. Ensure the algorithms are FIPS 140-2 compliant by checking the NIST web site (www.nist.gov).

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**Default Finding Details** Functions of the application and the enclave (network) that implement encryption, digital signature, key exchange and/or hash use algorithms that are not FIPS 140-2 compliant

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**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 DCNR-1**

Ensure the algorithms are FIPS 140-2 compliant by checking the NIST web site (www.nist.gov). Replace or upgrade systems that do not use approved algorithms.

Notes:

## 8500.2 DCPD-1 V0008397 CAT II Unauthorized use of software

8500.2 IA Control: DCPD-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2) ,  
NIST Special Publication 800-53 (SP 800-53)

**Vulnerability** Unauthorized use of software

**Vulnerability Discussion** Public domain software is shareware and there cannot be any assurance the products integrity or security mechanisms exist without a code review or vulnerability analysis. Failure to properly authorize shareware before it is installed or used on corporate AISs could result in compromise of sensitive corporate resources.

---

### Checks

#### 8500.2 DCPD-1

Scan the machines to determine if shareware/freeware exists. For each item found, verify that documentation exists either in the DAA signed SSAA or acknowledgement in a formal DAA signed accreditation document. If the freeware/shareware programs found on the scan are not listed, then the systems is non-compliant.

Verify the organization complies with software usage restrictions. (NIST SA-6) Insure software and associated documentation are used in accordance with contract agreements and copyright laws. For software and associated documentation protected by quantity

licenses, the organization employs tracking systems to control copying and distribution. The organization controls and documents the use of publicly accessible peer-to-peer file sharing technology to ensure that this capability is not used for the unauthorized distribution, display, performance, or reproduction of copyrighted work. (NIST SA-6)

---

**Default Finding** The following issues were noted:

**Details** Binary or machine executable public domain software products and other software products with limited or no warranty such as those commonly known as freeware is being used without the approval or acknowledgement of the DAA.  
The organization is not in compliance with software licensing agreements  
The organization is not in compliance with software usage restrictions.

---

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

### Fixes

#### 8500.2 DCPD-1

Document and obtain the DAA's acknowledgement and approval for all binary or machine executable public domain software products (i.e. freeware/shareware) and other software products with limited or no warranty.

Implement policy and procedures to ensure the the organization is in compliance with software licensing agreements.

Implement policy and procedures to ensure the the organization is in compliance with software usage restrictions.

Notes:

**8500.2 DCP-1      V0008398    CAT II      Noncompliance with DOD PPS CAL requirements**

8500.2 IA Control: DCP-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Noncompliance with DOD PPS CAL requirements

**Vulnerability Discussion** Failure to comply with DoD ports, protocols, and services (PPS) CAL requirements can result in compromise of enclave boundary protections and/or functionality of the AIS.

---

**Checks**

**8500.2 DCP-1**

For applications:

Examine the SSAA and the network interfaces listed. Ensure that the network ports, protocols, and services are listed for each interface. Ensure that all ports, protocols, and services are registered in accordance with the DOD PPS.

For Lab tested systems ensure this information is addressed in the PM's deployment plan for the hosting enclave. (See DCID-1)

For Enclaves:

Refer to the firewall section and the packet filtering and logging section of the Network Checklist.

Ensure that enclaves have registered all active ports, protocols, and services in accordance with DoD and DoD Component guidance.

---

**Default Finding** The following issues were noted:

**Details** System SSAA does not list the network ports, protocols, and services for each application interface

All System ports, protocols, and services are not registered in accordance with the DOD PPS CAL.

Enclave has not registered all active ports, protocols, and services in accordance with DoD and DoD Component guidance.

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 DCP-1**

For applications:

Ensure your SSAA lists all interfaces and the ports, protocols and services used for each Insure that all ports, protocols, and services are registered in accordance with the DOD PPS.

For Lab tested systems ensure this information is addressed in the PM's deployment plan for the hosting enclave. (See DCID-1)

For Enclaves:

Register all active ports, protocols, and services in accordance with DoD and DoD Component guidance.

Notes:

## 8500.2 DCPR-1 V0008399 CAT I Inadequate Configuration Management (CM) process

8500.2 IA Control: DCPR-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate Configuration Management (CM) process

**Vulnerability Discussion** Security integrity of the system and the ability to back-up and recover from failures cannot be maintained without control of the system configuration. Unless the configuration is controlled by rigid processes administered by an independent board it much less likely to be in its approved and accredited state.

---

### Checks

#### 8500.2 DCPR-1

Verify that a CM process exists and it contains the following:

- (1) Formally documented CM roles, responsibilities, and procedures to include the management of IA information and documentation
  - (2) A configuration control board that implements procedures to ensure a security review and approval of all proposed DoD information system changes, to include interconnections to other DoD information systems (DCCB-1 and DCCB-2)
  - (3) A testing process to verify proposed configuration changes prior to implementation in the operational environment (see also DCCT-1)
  - (4) A verification process to provide additional assurance that the CM process is working effectively and that changes outside the CM process are technically or procedurally not permitted.
- Enhancements from NIST CM-3, Required for MAC 1 and Classified; Recommended for all others.
- (1) The organization employs automated mechanisms to:
    - (i) document proposed changes to the information system;
    - (ii) notify appropriate approval authorities;
    - (iii) highlight approvals that have not been received in a timely manner;
    - (iv) inhibit change until necessary approvals are received; and
    - (v) document completed changes to the information system.

Note: This control requires a testing process; DCCT-1 requires the testing to be performed.

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**Default Finding** The following CM issues were noted:

#### Details

There is no formal Configuration Management Process

The CM process does not include formally documented CM roles, responsibilities, and procedures to include the management of IA information and documentation

The CM process does not include a configuration control board that implements procedures to ensure a security review and approval of all proposed DoD information system changes, to include interconnections to other DoD information systems

The CM process does not include a testing process to verify proposed configuration changes prior to implementation in the operational environment

The CM process does not include a verification process to provide additional assurance that the CM process is working effectively and that changes outside the CM process are technically or procedurally not permitted

The organization does not employ automated mechanisms to:

- (i) document proposed changes to the information system;
- (ii) notify appropriate approval authorities;
- (iii) highlight approvals that have not been received in a timely manner;
- (iv) inhibit change until necessary approvals are received; and
- (v) document completed changes to the information system.

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**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

#### Fixes

#### 8500.2 DCPR-1

Implement a CM process that contains the following:

- (1) Formally documented CM roles, responsibilities, and procedures to include the management of IA information and documentation
  - (2) A configuration control board that implements procedures to ensure a security review and approval of all proposed DoD information system changes, to include interconnections to other DoD information systems (DCCB-1 and DCCB-2)
  - (3) A testing process to verify proposed configuration changes prior to implementation in the operational environment (see also DCCT-1)
  - (4) A verification process to provide additional assurance that the CM process is working effectively and that changes outside the CM process are technically or procedurally not permitted.
- Enhancements from NIST CM-3, Required for MAC 1 and Classified; Recommended for all others.
- (1) The organization employs automated mechanisms to:
    - (i) document proposed changes to the information system;
    - (ii) notify appropriate approval authorities;
    - (iii) highlight approvals that have not been received in a timely manner;
    - (iv) inhibit change until necessary approvals are received; and
    - (v) document completed changes to the information system.

Notes:

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## 8500.2 DCSD-1      V0008400 CAT I      Inadequate IA Documentation

8500.2 IA Control: DCSD-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate IA Documentation

**Vulnerability Discussion** If the DAA, IAM/IAO are not performing assigned functions in accordance with DoD requirements, it could impact the overall security of the facility, personnel, systems, and data, which could lead to degraded security. If the DAA, IAM/IAO are not appointed in writing, there will be no way to ensure they understand the responsibilities of the position and the appointment criteria.

The lack of a complete System Security Plan could lead to ineffective secure operations and impede accreditation.

---

### Checks

#### 8500.2 DCSD-1

Validate that the required IA roles are established in writing. These roles are DAA and IAM/IAO. This must include assigned duties and appointment criteria such as training, security clearance, and IT-designation.

Ensure a System Security Plan exists that describes the technical, administrative, and procedural IA program and policies that govern the DoD information system, and identifies all IA personnel and specific IA requirements and objectives (e.g., requirements for data handling or dissemination, system redundancy and backup, or emergency response).

Note: The System Security Plan is "Appendix S" in the SSAA.

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**Default Finding** The following issues were noted:

**Details** Required IA roles are not established in writing. (DAA, IAM/IAO)  
Appointments of required IA Roles do not include assigned duties and appointment criteria such as training, security clearance, and IT-designation.  
A System Security Plan does not exist; It should be Appendix s of the SSAA  
System Security Plan does not include the following required information:  
Description of the technical, administrative, and procedural IA program and policies that govern the DoD information system  
Identification of all IA personnel  
Specific IA requirements and objectives (e.g., requirements for data handling or dissemination, system redundancy and backup, or emergency response).

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**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

### Fixes

#### 8500.2 DCSD-1

Establish the required IA roles in writing. The directive must include assigned duties and appointment criteria such as training, security clearance, and IT-designation.  
Prepare a System Security Plan that describes the technical, administrative, and procedural IA program and policies that govern the DoD information system, and identifies all IA personnel and specific IA requirements and objectives (e.g., requirements for data handling or dissemination, system redundancy and backup, or emergency response).

Notes:

**8500.2 DCSL-1      V0008401    CAT II      Improper management of system libraries**

8500.2 IA Control: DCSL-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Improper management of system libraries

**Vulnerability Discussion** Libraries contain program modules which possess a significant level of security bypass capability. Unauthorized access could result in the compromise of the operating system environment, ACP, and customer data.

---

**Checks**

**8500.2 DCSL-1**

Verify that proper DACLs are in place for directories and files that contain system binaries. This verification could also include digital signature or comparison of hash values through an automated process.

Note: This will be a manual check if the libraries are not online.

The following PDIs apply to this control: PDI-Application 5.2.1, APP0610, ORAOFAM, AAMV0020, AAMV0030, AAMV0040, AAMV0050, AAMV0060, AAMV0070, AAMV0320, AAMV0330, AAMV0340, AAMV0350, ACP00060, ACP00070, ACP00100, ACP00110, ACP00140, ACP00240, ZOMG0010, S103.450.00. A review of results will provide information on compliance with the first part of the IA Control.

Verify the organization enforces explicit rules governing the downloading and installation of software by users. (NIST SA-7)

---

**Default Finding Details** System libraries are not managed and maintained to protect privileged programs and to prevent or minimize the introduction of unauthorized code.

The following issues were noted:

Proper DACLs are not in place for directories and files that contain system binaries

The organization does not enforce explicit rules governing the downloading and installation of software by users.

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 DCSL-1**

Insure proper DACLs are in place for directories and files that contain system binaries.

For Lab tested systems address this item in the PM's deployment plan.

Establish and enforce explicit rules governing the downloading and installation of software by users. (NIST SA-7)

Notes:

**8500.2 DCSQ-1 V0008403 CAT II Software quality requirements not specified**

8500.2 IA Control: DCSQ-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Software quality requirements not specified

**Vulnerability Discussion** Inattention to software quality requirements and validation methods will result in flawed or malformed software that can negatively impact integrity or availability (e.g., buffer overruns)

---

**Checks**

**8500.2 DCSQ-1**

This check is limited to software development initiatives (not known COTS software issues).  
For GOTS developed applications, ensure that the software development life cycle includes steps that address software quality and validation requirements during development and testing.  
For vendor developed or COTS products, check for evidence of compliance with software quality initiatives, such as, ISO 9000 or CMMI.

---

**Default Finding** The following issues were noted:

**Details** Software quality requirements are not specified in system requirements statements and/or contracts.  
Software development life cycle does not include steps that address software quality and validation requirements during development and testing.  
There is no evidence that vendor developed or COTS products used complied with software quality initiatives (i.e. ISO 5000 or CMMI).

---

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 DCSQ-1**

Amend contracts and/or requirements statements to include software quality requirements.  
For GOTS developed applications, develop and implement processes to ensure that the software development life cycle includes steps that address software quality and validation requirements during development and testing.  
For vendor developed or COTs products, include requirements for compliance with software quality initiatives, such as, ISO 9000 or CMMI.

Notes:

**8500.2 DCSR-2      V0008405   CAT I      Medium Robustness Protection Profiles not met**

8500.2 IA Control: DCSR-2

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Medium Robustness Protection Profiles not met

**Vulnerability Discussion** At a minimum, medium-robustness (EAL 2) COTS IA and IA-enabled products must be used to protect sensitive information when the information transits public networks or the system handling the information is accessible by individuals who are not authorized to access the information on the system. The medium-robustness requirements for products are defined in the Protection Profile Consistency Guidance for Medium Robustness published under the IATF.

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**Checks**

**8500.2 DCSR-2**

Medium robustness security services and mechanisms provide for additional safeguards above Basic. Medium robustness technical solutions require, at a minimum, strong (e.g., crypto-based) authenticated access control, NSA-approved key management, NIST FIPS-validated cryptography, and the assurance properties as specified in NSA-endorsed medium robustness protection profiles or the Protection Profile Consistency Guidance for Medium Robustness. The SSAA should list the products that are used. Compare that list against the approved products.

---

**Default Finding Details** COTS IA and IA-enabled products do not meet Medium Robustness Protection Profiles

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 DCSR-2**

List the products that are used. Compare that list against the approved products. Replace those that don't meet the medium robustness profile.

Notes:

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**8500.2 DCSS-1      V0008407   CAT I      Insufficient secure state assurance.**

8500.2 IA Control: DCSS-1

References: Department of Defense (DOD) Instruction 8500.2,  
Information Assurance (IA) Implementation

**Vulnerability** Insufficient secure state assurance.

**Vulnerability Discussion**

---

**Checks**

**8500.2 DCSS-1**

Rely on NIAP certification of devices and ensure STIG requirements have been applied for each technology. Ensure each component of the system is checked.

---

**Default Finding Details** System initialization, shutdown, and aborts are not configured to ensure that the system remains in a secure state.

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 DCSS-1**

Rely on NIAP certification of devices and ensure STIG requirements have been applied for each technology. Ensure each component of the system meets the requirements.

Notes:



## 8500.2 DCSW-1 V0008409 CAT I Inadequate Baseline Software Inventory

8500.2 IA Control: DCSW-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2) ,  
NIST Special Publication 800-53 (SP 800-53)

**Vulnerability** Inadequate Baseline Software Inventory

**Vulnerability Discussion** Rigid control of the system baseline is required if the system is to have any assurance of Information Systems Security. New vulnerabilities are discovered continuously in commercial systems. Care must be taken to track all versions of all commercial products in use so that these deficiencies can be fixed quickly since they are almost immediately the subject of attempted exploits.

---

### Checks

#### 8500.2 DCSW-1

Examine the software inventory and to verify it includes the manufacturer, type, version, and installation manuals and procedures of each product and spot check to ensure it is up to date.

Verify backup copies of software inventory list are stored off-site or in a fire-rated container.

Other requirements (from NIST CM-2):

(1) MAC 1 & 2 and all Classified -Verify that the organization updates the baseline configuration as an integral part of information system component installations.

(2) MAC 1 - Verify that the organization employs automated mechanisms to maintain an up-to-date, complete, accurate, and readily available baseline configuration.

---

**Default Finding** The following issues were noted:

**Details** A baseline software inventory does not exist

The baseline software inventory does not contain all required information

The baseline software inventory does not list all software

The baseline software inventory is not current

Backup copies of software inventory list are not stored off-site or in a fire-rated container.

MAC 1 2 and all classified - The organization does not update the baseline configuration as an integral part of information system component installations. (NIST CM-2)

MAC 1 - The organization employs automated mechanisms to maintain an up-to-date, complete, accurate, and readily available baseline configuration. (NIST CM-2)

---

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

### Fixes

#### 8500.2 DCSW-1

Establish a baseline software inventory and ensure it includes the manufacturer, type, version, and installation manuals and procedures of each product.

Establish procedures to keep the software inventory up to date.

Ensure backup copies of software inventory list are stored off-site or in a fire-rated container.

Other requirements (from NIST CM-2):

(1) MAC 1 & 2 and all Classified -Establish procedures to update the baseline configuration as an integral part of information system component installations.

(2) MAC 1 - Employ automated mechanisms to maintain an up-to-date, complete, accurate, and readily available baseline configuration.

Notes:

## 8500.2 EBBD-2    V0008411    CAT II    Inadequate Boundary Defense

8500.2 IA Control: EBBD-2

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate Boundary Defense

**Vulnerability Discussion** If intrusion detection and intrusion prevention devices are not installed on the host site network, and key boundary points, network and system attacks or compromises cannot be detected or prevented.

Without the Dual-Homed screened subnet (DMZ) architecture traffic that would be normally destined for the DMZ would have to be redirected to the sites internal network. This would allow for a greater opportunity for hackers to exploit.

---

### Checks

#### 8500.2 EBBD-2

For enclaves, ensure a firewall and IDS are in place at the enclave boundary. Review network topology to identify key boundary points (security domains, VPN subnets, enclave to enclave interconnections, remote access points, management subnets, etc) to determine if additional firewall or network IDSs are required.  
Ensure Internet access is proxied through the internet access point (layer 7 firewall or application proxy) that meets the DoD requirement that such contacts are isolated from other DoD systems by physical or technical means.  
Ensure all Internet access points are under the management and control of the enclave. It is acceptable, if there is an upstream provider and the site has an agreement for the upstream provider to manage it.

---

**Default Finding** The following issues were noted:

**Details** Intrusion detection (NID/JID) devices and intrusion deterrence (Firewall) devices are not installed.  
Intrusion detection (NID/JID) devices and intrusion deterrence (Firewall) devices do not cover all key boundary points  
A dual-homed screened subnet architecture (DMZ) does not exist or is not being used to protect the enclave as required.  
Internet access exists that is not under the control of the enclave manager.

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

### Fixes

#### 8500.2 EBBD-2

For enclaves, install a firewall and IDS at the enclave boundary and at key boundary points (security domains, VPN subnets, enclave to enclave interconnections, remote access points, management subnets, etc)  
Insure Internet access is proxied through the internet access point (layer 7 firewall or application proxy) that meets the DoD requirement that such contacts are isolated from other DoD systems by physical or technical means.  
Ensure all Internet access points are under the management and control of the enclave.

Notes:

**8500.2 EBCR-1 V0008413 CAT II**

**Noncompliance with connection rules**

8500.2 IA Control: EBCR-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Noncompliance with connection rules

**Vulnerability Discussion**

**Checks**

**8500.2 EBCR-1**

Examine the SSAA to ensure that the IATC and/or ATC exists.  
Ensure that a connection approval exists for the site from the appropriate connection approval office (e.g., SCAO, SNAP) and it is being followed.  
Ensure that major systems (networks) maintain their own connection approval process for governing the connection of their customers and users.

**Default Finding** The Approval to connect to DOD Information Systems does not exist or is out dated.  
**Details** The site does not have the Connection Approval Process (CAP) documentation.  
The Enclave is not in compliance with the rules governing the connection approval.

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 EBCR-1**

For an Enclave:  
Obtain the appropriate connection approval (IATC or ATC).  
Insure guidance from the appropriate office (e.g., SCAO, SNAP) is available and that it is followed.  
For a Network:  
Develop and implement a connection approval process for governing the connection of customers and users.

Notes:

**8500.2 EBPW-1 V0008414 CAT I**

**Direct access allowed.**

8500.2 IA Control: EBPW-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Direct access allowed.

**Vulnerability Discussion** Connections between DoD enclaves and the Internet or other public or commercial wide area networks require a demilitarized zone (DMZ) to insure risk to DOD Systems is minimized.

**Checks**

**8500.2 EBPW-1**

If the application or enclave is publicly accessible, ensure that the traffic is being routed through a DMZ.

**Default Finding** Public or Commercial Access to the DOD System is not through a demilitarized zone (DMZ).  
**Details**

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 EBPW-1**

Reconfigure the application or system to ensure that the commercial and public access is through a DMZ.

Notes:

**8500.2 EBRP-1      V0008415 CAT I      Insufficiently controlled remote access for privil**

8500.2 IA Control: EBRP-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Insufficiently controlled remote access for privileged functions

**Vulnerability Discussion** To prevent possible compromise of sensitive information (Privileged logon information) remote access for privileged functions must be discouraged, must be permitted only for compelling operational needs, and must be strictly controlled. In addition to EBRU-1, sessions must employ security measures such as a VPN with blocking mode enabled. A complete audit trail of each remote session must be recorded, and the IAM/O must review the log for every remote session.

**Checks**

**8500.2 EBRP-1**

- Verify remote access function is documented and approved by the local DAA.
- Verify remote access employs FIPS 140-2 encryption to protect information in transit.
- Verify users are authenticated against an external directory service (i.e., RADIUS, TACACS+, Active Directory, LDAP)
- Verify a complete audit trail of each remote session recorded to include who connected, when and for how long.
- Verify user network traffic is monitored by an intrusion detection system.
- Verify the IAM/O reviews the log for every remote session weekly.

**Default Finding** The following issues were noted:

- Details**
- Remote access for privileged functions is not discouraged.
  - Remote access for privileged functions is permitted for other than compelling operational needs.
  - Remote access for privileged functions is not strictly controlled.
  - Remote access for privileged functions sessions does not employ security measures such as a VPN with blocking mode enabled.
  - A complete audit trail of each Remote access for privileged functions session is not recorded.
  - The IAM/O does not review the log of every instance of remote access for privileged functions session on a weekly basis.

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 EBRP-1**

- Insure all remote access for privileged function is documented and approved by the local DAA.
- Insure remote access for privileged function employs FIPS 140-2 encryption to protect information in transit.
- Insure remote access for privileged function users are authenticated against an external directory service (i.e., RADIUS, TACACS+, Active Directory, LDAP)
- Insure a complete audit trail of each remote for privileged function session is recorded to include who connected, when and for how long.
- Insure remote access for privileged function user network traffic is monitored by an intrusion detection system.
- Insure the IAM/O reviews the log for every remote access for privileged function session weekly.

Notes:

**8500.2 EBRU-1      V0008416    CAT I      Insufficiently controlled remote access**

8500.2 IA Control: EBRU-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Insufficiently controlled remote access

**Vulnerability Discussion** In order to protect DOD data and systems all remote access to DoD information systems must be mediated through a managed access control point, such as a remote access server in a DMZ.

---

**Checks**

**8500.2 EBRU-1**

- Ensure all remote access to DoD information systems is mediated through a managed access control point, such as a remote access server in a DMZ.
- Verify that remote access uses NIST validated encryption for sensitive and classified data.
- Ensure that passwords used for remote access comply with IAIA -1 and IAIA-2.
- Ensure that the organization provides a means for employees using remote access to communicate with information system security staff in case of security problems. (NIST PE-17)

---

**Default Finding** The following issues were noted:

**Details** Remote access to DoD information systems is not mediated through a managed access control point  
Remote access does not use NIST validated encryption for sensitive and classified data.  
Passwords used for remote access do not comply with IAIA -1 and IAIA-2.  
The organization does not provide a means for employees using remote access to communicate with information system security staff in case of security problems.

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 EBRU-1**

- Reconfigure all remote access to DoD information systems so that it is mediated through a managed access control point, such as a remote access server in a DMZ.
- Reconfigure remote access to use NIST validated encryption for sensitive and classified data.
- Establish control to insure that passwords used for remote access comply with IAIA -1 and IAIA-2.
- Provide a means for employees using remote access to communicate with information system security staff in case of security problems. (NIST PE-17)

Notes:

**8500.2 EBVC-1      V0008417   CAT II      VPN traffic not visible to IDS**

8500.2 IA Control: EBVC-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** VPN traffic not visible to IDS

**Vulnerability Discussion** Intruders can escape detection by hijacking a VPN connection from a trusted enclave or assuming the identity of a trusted user of the VPN

---

**Checks**

**8500.2 EBVC-1**

Verify the VPN tunnel terminates prior to the network intrusion detection systems (IDS/Firewall) and the unencrypted data payload is monitored by an active Network IDS or Firewall. PDI, Net1625, directly applies. PDIs Net1800 and Net1820 also may apply.

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**Default Finding Details** VPN traffic is not visible to network intrusion detection systems (IDS firewalls).

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**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 EBVC-1**

Reconfigure the connection to terminate the VPN tunnel prior to the network intrusion detection systems (IDS) so that the unencrypted data payload is monitored by an active Network IDS.

Notes:

## 8500.2 ECAD-1 V0008418 CAT II Inadequate Affiliation Information

8500.2 IA Control: ECAD-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate Affiliation Information

**Vulnerability Discussion** To help prevent inadvertent disclosure of controlled information, all contractors are identified by the inclusion of the abbreviation ctr and all foreign nationals are identified by the inclusion of their two character country code

---

### Checks

#### 8500.2 ECAD-1

1. For enclaves, if the application displays, or automatically generates, individual's names or controls email addresses (e.g., collaboration servers, IM applications, email servers), ensure that the individual's affiliation is displayed. For contractors, this includes the abbreviation "ctr". For all foreign nationals this includes the their two character country code. Foreign national contractors will have both .ctr and their 2 digit country code.
2. Note: Three checks are required; display names, e-mail addresses and automated signature blocks.

---

**Default Finding** The following issues were noted:

**Details** Inadequate affiliation information in E-Mail addresses  
Inadequate affiliation information in display names  
Inadequate affiliation information in automated signature blocks

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**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

### Fixes

#### 8500.2 ECAD-1

For enclaves, if the application displays, or automatically generates, individual's names or controls email addresses (e.g., collaboration servers, IM applications, email servers), reconfigure the system to ensure that the individual's affiliation is displayed. For contractors, this includes the abbreviation "ctr". For all foreign nationals this includes their two character country code. Foreign national contractors will have both .ctr and their 2 digit country code.  
Note: This requirement applies to display names, e-mail addresses and automated signature blocks.

Notes:

**8500.2 ECAN-1      V0008419    CAT I                      Improper access to data**

8500.2 IA Control: ECAN-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Improper access to data

**Vulnerability  
Discussion**

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**Checks**

**8500.2 ECAN-1**

This is a two part manual check requiring interview and observation. Technical checks can also be used to verify roles based or discretionary access control is generally in use in the organization. Technical checks may also verify proper audit records are created but should they not be relied upon for system and application ST&E.

Interview the IAO/IAM and verify that the need to know is established before access is granted to classified or sensitive data. Verify that this is enforced by either discretionary or role-based access controls. Verify that proper auditing is performed by observing both access and attempted access and verifying proper audit records are created.

There are scores of PDIs that may apply directly to access control portion of this control. Get specific input from your technical reviewers

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**Default Finding** The following issues were noted:

**Details** Access to classified or sensitive data is granted without verifying need-to-know  
Access is not enforced by discretionary or role-based access controls  
Proper audit of access is not performed

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 ECAN-1**

develop, implement and enforce procedure to insure that the need to know is established before access is granted to classified or sensitive data.

Develop and implement discretionary or role-based access controls.

Ensure proper auditing is performed of both access and attempted access and insure proper audit records are created.

Notes:



## 8500.2 ECAR-2 V0008421 CAT II Inadequate audit record content

8500.2 IA Control: ECAR-2

References: Department of Defense Instruction 8500.2 (DODI 8500.2) ,  
NIST Special Publication 800-53 (SP 800-53)

**Vulnerability** Inadequate audit record content

**Vulnerability Discussion** Minimum Audit record content is required to insure detection, attribution and recovery from changes to DOD Information and systems.

---

### Checks

#### 8500.2 ECAR-2

Review the audit records and ensure audit records include:

User ID.

Successful and unsuccessful attempts to access security files (e.g.. audit records, password files, access control files).

Date and time of the event.

Type of event.

Success or failure of event.

Successful and unsuccessful logons.

Denial of access resulting from excessive number of logon attempts.

Blocking or blacklisting a user ID, terminal or access port and the reason for the action.

Activities that might modify, bypass, or negate safeguards controlled by the system (system administrator logon, logging directly onto a router vs. using TACACS+, altering access control lists, or altering security files).

Accounts creation or deletion ( NIST AC-2)

Identity of the IS component where the event occurred (NIST AU-3)

---

**Default Finding** The following required data was missing from audit records:

**Details** User ID.

Successful and unsuccessful attempts to access security files

Date and time of the event

Type of event.

Success or failure of event.

Successful and unsuccessful logons.

Denial of access resulting from excessive number of logon attempts.

Blocking or blacklisting a user ID, terminal or access port and the reason for the action.

Activities that might modify, bypass, or negate safeguards controlled by the system (system administrator logon, logging directly onto a router vs. using TACACS+, altering access control lists, or altering security files).

Accounts creation or deletion on critical systems (NIST AC-2) (There is a STIG Check for this.)

Identity of the IS Component where the event occurred (NIST AU-3)

---

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

### Fixes

#### 8500.2 ECAR-2

Configure system to insure that audit records include:

User ID.

Successful and unsuccessful attempts to access security files (e.g.. audit records, password files, access control files)

Date and time of the event.

Type of event.

Success or failure of event.

Successful and unsuccessful logons.

Denial of access resulting from excessive number of logon attempts.

Blocking or blacklisting a user ID, terminal or access port and the reason for the action.

Activities that might modify, bypass, or negate safeguards controlled by the system (system administrator logon, logging directly onto a router vs. using TACACS+, altering access control lists, or altering security files).

Accounts creation or deletion (NIST AC-2)

Identity of the IS Component where the event occurred. (NIST AU-3)

Notes:

**8500.2 ECAT-1      V0008423    CAT III      Inadequate audit record review**

8500.2 IA Control: ECAT-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate audit record review

**Vulnerability Discussion** Audit records for all sources must be regularly reviewed and suspected violations of IA Policies must be analyzed and reported. This is to protect Critical DOD Systems from possible harm and/or exploitation and to protect Critical DOD Information.

**Checks**

**8500.2 ECAT-1**

Interview the IAM and look at the SOPs to ensure that audit records are reviewed regularly and suspected violations of IA policies are analyzed and reported.  
Select a sampling of components/devices and verify that the audit records have been reviewed by looking for incidents of read access to the audit files in the audit logs.

**Default Finding Details** The following issues were noted:  
Audit trail records from all available sources are not regularly reviewed for indications of inappropriate or unusual activity.  
Suspected violations of IA policies are not analyzed  
Suspected violations of IA Policies are not reported in accordance with DoD information system IA procedures.

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 ECAT-1**

Develop and implement SOPs to ensure that audit records are reviewed regularly and suspected violations of IA policies are analyzed and reported.

Notes:

**8500.2 ECCD-1      V0008425    CAT II      Inadequate access control mechanisms**

8500.2 IA Control: ECCD-1

References: Department of Defense (DOD) Instruction 8500.2,  
Information Assurance (IA) Implementation

**Vulnerability** Inadequate access control mechanisms

**Vulnerability Discussion** Without access control the data is not secure. It can be compromised, misused or changed by unauthorized access at any time.

**Checks**

**8500.2 ECCD-1**

Examine the system and verify access control mechanisms have been established and are working to ensure that data is accessed and changed only by authorized personnel.

**Default Finding Details** Access control mechanisms do not exist to ensure that data is accessed and changed only by authorized personnel.

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 ECCD-1**

Configure the system to establish control mechanisms to ensure that data is accessed and changed only by authorized personnel.

Notes:

**8500.2 ECCR-1    V0008428    CAT III    Inadequate encryption of stored sensitive informat**

8500.2 IA Control: ECCR-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate encryption of stored sensitive information

**Vulnerability Discussion** If encryption of stored sensitive information is required by the data owner, NIST-certified cryptography must be used.

---

**Checks**

**8500.2 ECCR-1**

Review the SSAA or interview the information owner to determine if a requirement exists to encrypt stored, sensitive information.

If a requirement exists to encrypt, ensure encryption is being performed using NIST FIPS 140-2 validated encryption.

---

**Default Finding** The following issues were noted:

**Details** Stored sensitive information is not encrypted although such encryption is required by the data owner  
NIST-certified cryptography is not used to encrypt stored sensitive information

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 ECCR-1**

Configure system to encrypt stored sensitive information as required by the data owner; ensure encryption is performed using NIST FIPS 140-2 validated encryption.

Replace cryptography that is not NIST Certified;

Notes:

**8500.2 ECCT-1      V0008431    CAT II      Inadequate encryption of transmitted data**

8500.2 IA Control: ECCT-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate encryption of transmitted data

**Vulnerability Discussion** Failure to encrypt sensitive information during transmission may result in compromise of the information

**Discussion**

**Checks**

**8500.2 ECCT-1**

Interview the information owner or IAM/O to determine if sensitive data transits a commercial circuit or wireless network (e.g., NIPRNet, ISP). If sensitive data does transit a commercial circuit or wireless network, ensure NIST FIPS 140-2 validated encryption is used to encrypt the data.

Note: This may be accomplished via layer 3, 4, or 7 encryption mechanisms via a user session or WAN boundary encryption device.

**Default Finding** The following issues were noted:

**Details** Unclassified, sensitive data transmitted through a commercial or wireless network are not encrypted  
Unclassified, sensitive data transmitted through a commercial or wireless network are not encrypted using NIST-certified cryptograph

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 ECCT-1**

Reconfigure the system to ensure NIST FIPS 140-2 validated encryption is used to encrypt sensitive data during transmission.

Note: This may be accomplished via layer 3, 4, or 7 encryption mechanisms via a user session or WAN boundary encryption device.

Notes:

**8500.2 ECIC-1      V0008434   CAT I      Controlled interface is not used**

8500.2 IA Control: ECIC-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Controlled interface is not used

**Vulnerability Discussion** Discretionary access controls are a sufficient IA mechanism for connecting DoD information systems operating at the same classification, but with different need-to-know access rules. However, A controlled interface is required for interconnections among DoD information systems operating at different classifications levels or between DoD and non-DoD systems or networks to insure that only predetermined information is passed to the connected system. This safeguard prevents loss or compromise of classified or sensitive information.

---

**Checks**

**8500.2 ECIC-1**

Review topology documentation to identify interconnections between different networks and systems. Validate the classification level of interconnected systems and networks by interviewing the IAM/O. If networks or systems of varying classification levels, or networks or system between DOD and Non-DOD, are interconnected, validate that a controlled interface (e.g., cross domain solution, DISN approved DMZ) is implemented to control the transfer of data between the systems or networks.

---

**Default Finding Details** Controlled interface is required but not in use.

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 ECIC-1**

Install a controlled interface (e.g., cross domain solution, DISN approved DMZ) to control the transfer of data between the systems or networks.

Notes:

**8500.2 ECIM-1      V0008436   CAT II      Unapproved Instant messaging**

8500.2 IA Control: ECIM-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Unapproved Instant messaging

**Vulnerability** Instant messaging has been subject of multiple security vulnerabilities that have permitted unauthorized access to users computers,  
**Discussion** denial of service attacks, and message spoofing. Only DOD approved IM services are allowed to transit the enclave boundary.

---

**Checks**

**8500.2 ECIM-1**

Review firewall and router configurations and verify that only DOD approved IM services are allowed to transit the enclave boundary. If IM services are running and connecting to services outside the DOD, check to verify they are proxied at the enclave boundary.  
Also, verify that unapproved IM clients / services are uninstalled or disabled on all operating systems.

---

**Default Finding** The following issues were noted:

**Details** Unapproved IM clients / services are installed  
Unapproved IM Services are in use  
Firewall and router configurations allow IM Services

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 ECIM-1**

Establish firewall and router configurations to ensure that only DOD approved IM services are allowed to transit the enclave boundary.  
If IM services are running and connecting to services outside the DOD, reconfigure to ensure they are proxied at the enclave boundary.  
Ensure that unapproved IM clients / services are uninstalled or disabled on all operating systems.

Notes:

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**8500.2 ECLO-1      V0008438    CAT II      Successive logon attempts are not controlled**

8500.2 IA Control: ECLO-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2) ,  
NIST Special Publication 800-53 (SP 800-53)

**Vulnerability** Successive logon attempts are not controlled

**Vulnerability Discussion** Attempted logons must be controlled to hamper password guessing exploits.

Concurrent sessions per individual must be controlled to limit denial of service attacks.

---

**Checks**

**8500.2 ECLO-1**

Review the output from the SRRs and verify that one of the approved methods are used to restrict the logon attempts to the system.  
If the system allows multiple concurrent sessions per user, review the documentation that describes the security controls that are in place to control the number of concurrent logon sessions allowed per user and verify that the controls are working properly. (NIST-AC-10)

---

**Default Finding** The following issues were noted:

**Details** Successive logon attempts are not controlled

The number of concurrent sessions allowed per user is not controlled.

NIST AC-10 - The information system limits the number of concurrent sessions for any user.

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 ECLO-1**

- Control successive logon attempts using one or more of the following:
- Deny access after multiple unsuccessful logon attempts.
  - Limit the number of access attempts in a given period is limited.
  - Employ a time-delay control system.
- Limit the number of concurrent logon sessions per individual.

Notes:

## 8500.2 ECLP-1 V0008440 CAT I Separation of duties and least privilege principle

8500.2 IA Control: ECLP-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Separation of duties and least privilege principles not enforced

**Vulnerability Discussion** Without a least privilege policy a user can gain access to information that he or she is not entitled to and can compromise confidentiality, integrity, and availability of the system. Also, if a hacker gains access to an account they assume the privileges of the user; minimizing privileges reduces the risk associated with hijacked accounts.

Using a privileged account to perform routine functions makes the computer vulnerable to attack by any virus or Trojan Horse inadvertently introduced during a session that has been granted full privileges.

The rules of least privilege and separation of duties must always be enforced.

---

### Checks

#### 8500.2 ECLP-1

Verify that the organization uses and enforces the least privilege principle. Checks S104.030.00, ISS - 110, ACF0790, ACF0750, 1.006, DO0121, DO0120, DG0080, APP0520, NPR250, NET1374, NET0465, and NCV050 can be used as indicators.

Verify that privileged users have separate accounts for privileged functions and non-privileged functions. Ensure that they not using their privileged account for non-privileged functions.

Examine the audit log for record of functions being performed by the privileged account. Some examples of inappropriate use would be: email, IM and web browsing.

---

**Default Finding** The following issues were noted:

**Details** The principle of least privilege is not being rigorously applied.  
The principle of separation of duties is not being enforced.

---

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

### Fixes

#### 8500.2 ECLP-1

Establish and enforce a least privilege policy that controls access to systems and services, user data, configuration and management data and install security mechanisms.

Insure that privileged users have separate accounts for privileged functions and non-privileged functions.

Set up and enforce procedures to ensure that privileged users do not use their privileged account for non-privileged functions.

Notes:



## 8500.2 ECML-1 V0008441 CAT I Failure to properly Mark and Label

8500.2 IA Control: ECML-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Failure to properly Mark and Label

**Vulnerability Discussion** Without marking storage and output media, classified material can be inadvertently mixed with unclassified material leading to its possible loss or compromise.

Failure to properly mark classified and Controlled Unclassified Information (CUI) documents and devices can lead to the loss or compromise of classified or sensitive information.

---

### Checks

#### 8500.2 ECML-1

In an Enclave, check results of checks NET0060, AE14, FSO-CMM0900, AG-210, C2G-120, TDX-180, IS - 040, IS - 200, AE14, to gauge the organizations Marking and Labeling processes. Failures to properly mark documents and devices is a failure of this element.

Ask the application representative for the application's classification guide. This guide should document the data elements and their classification. For each function, note whether the appropriate markings appear on the displayed and printed output. If a classification document does not exist, data must be marked at the highest classification of the system.

Appropriate markings for an application are as follows:

For classified data, markings are required at a minimum at the top and the bottom of screens and reports.

For FOUO data, markings are required at a minimum on the bottom of the screen or report.

After completing the test, destroy all printed output using the site's preferred method for disposal (e.g., shredder approved for the destruction of classified information).

verify that components of sensitive and classified systems are appropriately marked.

---

**Default Finding Details** The following violations of marking and labeling policy were noted:

Output and storage media not properly marked

Printer output not properly marked

Controlled Unclassified Information (CUI) documents not properly marked

Classified documents not properly marked

Cover sheets not in use for classified and/or sensitive documents

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**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

### Fixes

#### 8500.2 ECML-1

Insure adequate marking and labeling policy is in place and enforced.

Notes:

## 8500.2 ECMT-1 V0008442 CAT II Inadequate Conformance Testing Program

8500.2 IA Control: ECMT-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate Conformance Testing Program

**Vulnerability Discussion** Network intrusions occur at an unacceptably high rate. Our adversaries are easily exploiting our slow response to system patching and failures of some SAs to maintain approved security configurations. A routine conformance testing program is necessary to detect lapses in security so that exposure to exploitation is minimized.

---

### Checks

#### 8500.2 ECMT-1

Ensure that regularly scheduled self-assessments are performed and that penetration tests are included as part of this self-assessment process and that they are periodic (minimum of monthly) unannounced, and provide for specific penetration testing to ensure compliance with all vulnerability mitigation procedures such as the DoD IAVA or other DoD IA practices.

Verify that the following guidance from the JTF GNO is being followed:

1. SCAN ALL SYSTEMS AND NETWORKS, AT A MINIMUM, TWICE MONTHLY USING THE SCCVI, OR SIMILAR AUTOMATED TOOL THROUGH 31 JANUARY 2006.
2. BEGINNING 1 FEBRUARY, SCANS ARE REQUIRED MONTHLY. (JTF CTO 05-19).

Verify that Vulnerability scanning tools include the capability to readily update the list of vulnerabilities scanned. (NIST RA-5) (SCCVI, the standard DOD tool, has this capability but the use of it is optional until 2008 per JTF CTO 05-19).

---

**Default Finding** The following issues were noted:

**Details** The organization does not have a program of regular self assessments.  
The self assessment program does not include monthly penetration tests  
The penetration tests are not unannounced.  
Approved automated tools are not in use.

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**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

### Fixes

#### 8500.2 ECMT-1

Implement and enforce a program to ensure that regularly scheduled self-assessments are performed and that penetration tests are included as part of this self-assessment process and that they are periodic (minimum of monthly), unannounced, and provide for specific penetration testing to ensure compliance with all vulnerability mitigation procedures such as the DoD IAVA or other DoD IA practices.

The following guidance from the JTF GNO must be followed:

1. SCAN ALL SYSTEMS AND NETWORKS, AT A MINIMUM, TWICE MONTHLY USING THE SCCVI, OR SIMILAR AUTOMATED TOOL THROUGH 31 JANUARY 2006.
2. BEGINNING 1 FEBRUARY, SCANS ARE REQUIRED MONTHLY. (JTF CTO 05-19).

Insure the Vulnerability scanning tools include the capability to readily update the list of vulnerabilities scanned. (SCCVI, the standard DOD tool, has this capability).

Notes:

**8500.2 ECND-1    V0008444    CAT III    Ineffective network device control program**

8500.2 IA Control: ECND-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Ineffective network device control program

**Vulnerability  
Discussion**

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**Checks**

**8500.2 ECND-1**

Review the documentation for a sampling of network devices to ensure the documentation addresses the following:

- instructions for restart and recovery procedures
  - restrictions on source code access
  - system utility access
  - system documentation
  - protection from deletion of system and application files
  - structured process for implementation of directed solutions (e.g., IAVA).
- 

**Default Finding** Documentation of network devices did not include:

- Details**
- instructions for restart and recovery procedures
  - restrictions on source code access
  - restrictions on system utility access
  - restrictions on access to system documentation
  - protection from deletion of system and application files
  - structured process for implementation of directed solutions (e.g., IAVA).
- 

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 ECND-1**

Insure documentation for network devices addresses the following:

- instructions for restart and recovery procedures
- restrictions on source code access
- restrictions on system utility access
- restrictions on access to system documentation
- protection from deletion of system and application files
- structured process for implementation of directed solutions (e.g., IAVA).

Notes:

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**8500.2 ECNK-1      V0008446    CAT II      Need-to-Know information is not properly protected**

8500.2 IA Control: ECNK-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Need-to-Know information is not properly protected

**Vulnerability Discussion** Information in transit through a network at the same classification level, but which must be separated for need-to-know reasons, must be encrypted, at a minimum, with NIST-certified cryptography, to protect it from compromise.

**Checks**

**8500.2 ECNK-1**

Determine from the information owner if the data in transit must be separated for need-to-know reasons. If the data must be separated, ensure FIPS 140-2 validated algorithms are used to encrypt the data.

**Default Finding** The following issues were noted:

**Details** Information in transit through a network at the same classification level, but which must be separated for need-to-know reasons, is not encrypted, at a minimum, with NIST-certified cryptography.

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 ECNK-1**

Ensure NIST-certified cryptography (FIPS 140-2 validated algorithms) are used to encrypt the data.

Notes:

**8500.2 ECPA-1      V0008448    CAT I      Roles-base-access is not used**

8500.2 IA Control: ECPA-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2) ,  
NIST Special Publication 800-53 (SP 800-53)

**Vulnerability** Roles-base-access is not used

**Vulnerability Discussion**

**Checks**

**8500.2 ECPA-1**

Review documentation to ensure that system management privileges are broken into roles or security groups, and individuals are assigned to these roles based on their job assignment. Reference DCSD-1 and ECAN-1.

**Default Finding** The following Issues were noted:

**Details** System management privileges are not broken into roles or security groups  
Individuals are not properly assigned to roles or security groups

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 ECPA-1**

Implement and enforce procedures to ensure that system management privileges are broken into roles or security groups, and individuals are assigned to these roles based on their job assignment.

Notes:

**8500.2 ECPC-1      V0008449    CAT II      Application programmer privileges not limited**

8500.2 IA Control: ECPC-1

References: Department of Defense (DOD) Instruction 8500.2,  
Information Assurance (IA) Implementation

**Vulnerability** Application programmer privileges not limited

**Vulnerability  
Discussion**

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**Checks**

**8500.2 ECPC-1**

Review the configuration control documentation to determine the authorized list of application programmers with permission to modify the production code and data. Ensure the process for posting changes to code and data incorporates the authorized list into the process and that the process and authorized list of programmers are reviewed periodically.

---

**Default Finding** The following issues were noted:

**Details** Application programmer privileges to change production code and data are not limited  
Application programmer privileges to change production code and data are not periodically reviewed Annual minimum).

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**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 ECPC-1**

Compile an authorized list of application programmers with permission to modify the production code and data. Ensure the process for posting changes to code and data incorporates the authorized list into the process and that the process and authorized list of programmers are reviewed periodically (minimum of annually).

Notes:

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**8500.2 ECRC-1 V0008451 CAT II Object reuse is not implemented**

8500.2 IA Control: ECRC-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Object reuse is not implemented

**Vulnerability Discussion**

**Checks**

**8500.2 ECRC-1**

This is object reuse which is a requirement for NIAP Certification.  
Verify that the OS being used for the system has been NIAP certified at level 4. If so, then this requirement has been met.  
Input from the O/S and Application reviews is required to complete this check.

**Default Finding Details** Object reuse is not implemented at the operating system level.

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 ECRC-1**

Replace nonconforming components with NIAP Level 4 certified products. The features and capabilities that are provided by a NIAP 4 Certified product are designed to support Security Policy implementation through DAC that are valid and consistent across the system and transient memory cleansing (object reuse) features.

Notes:

**8500.2 ECRG-1 V0008452 CAT III Audit Tools not available**

8500.2 IA Control: ECRG-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Audit Tools not available

**Vulnerability Discussion** Audit review is less likely to be performed if tools are not available to assist this function.

**Checks**

**8500.2 ECRG-1**

Verify that automated tools are available to assist with review of the audit logs and reports generation.

**Default Finding Details** Tools are unavailable for the review of audit records and for report generation from audit records.

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 ECRG-1**

Procure automated tools for the review of audit records and for report generation from audit records.

Notes:

**8500.2 ECRR-1    V0008453    CAT II    Audit records not properly retained**

8500.2 IA Control: ECRR-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Audit records not properly retained

**Vulnerability Discussion** Retention of audit records is necessary for proper recovery from system malfunction, service disruption or attack.

**Checks**

**8500.2 ECRR-1**

Verify the proper retention of audit logs.  
You must get answers to the following questions:  
·Is SAMI Data present?  
·If yes, are audit records retained for 5 years?  
·If no, are audit records retained for 1 year?

**Default Finding Details** Audit records are not being properly retained

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 ECRR-1**

Correct organization procedures to ensure proper retention of audit logs.

Notes:

**8500.2 ECSC-1    V0008454    CAT I    DoD Security configuration guides not applied.**

8500.2 IA Control: ECSC-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** DoD Security configuration guides not applied.

**Vulnerability Discussion** System intrusions occur at an unacceptably high rate. Our adversaries are easily exploiting failures of some SAs to maintain approved security configurations.

**Checks**

**8500.2 ECSC-1**

Ensure compliance with approved configuration guidance.

**Default Finding Details** Not All DoD security configuration or implementation guides have been applied.

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 ECSC-1**

Apply approved DOD configuration or implementation guides to all equipment, software, facilities, networks, and applications.

Notes:

**8500.2 ECSD-1 V0008455 CAT II Inadequate Software Change Control**

8500.2 IA Control: ECSD-1

References: Department of Defense (DOD) Instruction 8500.2,  
Information Assurance (IA) Implementation

**Vulnerability** Inadequate Software Change Control

**Vulnerability Discussion** Applications are most vulnerable during the development and change process. Tight control is necessary to prevent malicious or accidental changes that could have a negative impact on mission systems.

**Checks**

**8500.2 ECSD-1**

Interview the program or project manager in charge and have them describe the process for meeting this control and have them provide change control documentation.

**Default Finding Details** Change controls for software development are inadequate to prevent unauthorized programs or modifications to existing programs from being implemented.

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 ECSD-1**

Implement guidance for review and approval of application change requests to assure that changes are executed by authorized personnel and are properly implemented.

Notes:

**8500.2 ECTC-1 V0008458 CAT I Tempest Requirements not Met**

8500.2 IA Control: ECTC-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Tempest Requirements not Met

**Vulnerability Discussion**

**Checks**

**8500.2 ECTC-1**

Input should be obtained from the traditional reviewer on PDIStM - 010, TM - 020, and TM - 030.

**Default Finding Details** The following items were noted:  
TEMPEST countermeasures were not considered prior to establishing a classified work area.  
Proper Tempest separations are not maintained between any RED processor and BLACK equipment.  
A separation of at least 5 centimeters is not maintained between any RED wire line and BLACK wire lines that exit the inspectable space or are connected to an RF transmitter, or BLACK power lines, located in DOD facilities outside the continental US.

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 ECTC-1**

Follow Requirements of DoD Directive S-5200.19.

Notes:



**8500.2 ECTM-1 V0008459 CAT II Integrity mechanisms not properly employed**

8500.2 IA Control: ECTM-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Integrity mechanisms not properly employed

**Vulnerability Discussion** If integrity checks (hash algorithms and/or checksums) are not used to detect errors in data streams there is no way to ensure the integrity of the application data as it traverses the network.

**Checks**

**8500.2 ECTM-1**

Discuss the ECTM-1 requirement with the PM/Application Developer/Design Engineer to determine what is done to assure compliance. Test and verify.

**Default Finding Details** The system does not employ a method to ensure the integrity of input and output files.

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 ECTM-1**

Employ Hash algorithms and/or checksums to detect errors in data streams.

Notes:

**8500.2 ECTP-1 V0008461 CAT II Excessive access to audit trails**

8500.2 IA Control: ECTP-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Excessive access to audit trails

**Vulnerability Discussion** Excessive permissions of audit records allow cover up of intrusion or misuse of the application.

**Checks**

**8500.2 ECTP-1**

Input for this control can be obtained from the O/S and application reviewers.  
SA can read audit logs  
IAO are authorized to delete the audit log after it is archived  
No other access is permitted

**Default Finding Details** The contents of audit trails are not protected against unauthorized access, modification or deletion.

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 ECTP-1**

Implement the following controls on audit records:  
SA can read audit logs  
IAO are authorized to delete the audit log after it is archived  
No other access is permitted

Notes:

**8500.2 ECVI-1      V0008462 CAT II      Unauthorized use of VOIP**

8500.2 IA Control: ECVI-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Unauthorized use of VOIP

**Vulnerability Discussion** Voice over Internet Protocol (VoIP) traffic to and from workstation IP telephony clients that are independently configured by end users for personal use is prohibited within DoD information systems. Both inbound and outbound individually configured voice over IP traffic is to be blocked at the enclave boundary. Note: This does not include VoIP services that are configured by a DoD AIS application or enclave to perform an authorized and official function.

---

**Checks**

**8500.2 ECVI-1**

Review firewall and router configurations to ensure that only DOD approved VoIP services are allowed to transit the enclave boundary.  
Also, verify that unapproved VoIP workstation clients are not installed or are disabled on all operating systems.

---

**Default Finding** The following issues were noted:

**Details** IP telephony clients are independently configured by end users.  
Individually configured voice over IP traffic, both inbound and outbound, is not blocked at the enclave boundary.  
The DAA did not authorize the use of VOIP.

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 ECVI-1**

Establish firewall and router rules and configurations to ensure that only DOD approved VoIP services are allowed to transit the enclave boundary.  
Establish and enforce procedures that ensure unapproved VoIP workstation clients are not installed or are disabled on all operating systems.

Notes:

**8500.2 ECVP-1      V0008463    CAT I      Inadequate anti-virus software**

8500.2 IA Control: ECVP-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2) ,  
NIST Special Publication 800-53 (SP 800-53)

**Vulnerability** Inadequate anti-virus software

**Vulnerability Discussion** Proper deployment of security software will assure the integrity of the system and application data and protects against possible internal and external virus infections, exposures, and/or threats.

---

**Checks**

**8500.2 ECVP-1**

Ensure that antivirus programs are installed and the patterns are up to date.  
Ensure spam and spyware protections are implemented (NIST SI-8).

---

**Default Finding** The following issues were noted:

**Details** All servers, workstations and mobile computing devices do not have virus protection  
Virus protection does not include capability for automatic updates.  
Spam protections are not implemented.  
Spyware protections are not implemented.

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 ECVP-1**

Implement procedures to insure that antivirus programs are installed and the patterns are kept up to date.  
Implement procedures to insure spam and spyware protections are implemented and kept up to date.

Notes:

**8500.2 ECWM-1 V0008464 CAT I Inadequate Warning Message**

8500.2 IA Control: ECWM-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate Warning Message

**Vulnerability Discussion** A logon banner is used to warn users against unauthorized entry and the possibility of legal action for unauthorized users, and advise all users that system use constitutes consent to monitoring, recording and auditing, and that they have no expectation of privacy. Failure to display a logon warning banner without this type of information could adversely impact the ability to prosecute unauthorized users and users who abuse the system.

---

**Checks**

**8500.2 ECWM-1**

Ensure that an approved warning banner is installed on every system.

---

**Default Finding** The following issues were noted:

**Details** A warning message does not exist for the application.

The warning message does not include the following:  
Use of the application constitutes the users consent to monitoring  
Use of the application is limited to official US Government business only  
Unauthorized use is subject to criminal prosecution  
Notice that this is a DOD system  
Users have no expectation of privacy

---

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 ECWM-1**

Implement an approved warning banner on every system.

Notes:

## 8500.2 ECWN-1 V0008465 CAT I Improper Wireless capabilities Implementation

8500.2 IA Control: ECWN-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Improper Wireless capabilities Implementation

**Vulnerability Discussion** Wireless computing and networking capabilities from workstations, laptops, personal digital assistants (PDAs), handheld computers, cellular phones, or other portable electronic devices are easily exploited by outsiders and easily misused by users. Results can be loss or compromise of sensitive data and/or compromise of the system.

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### Checks

#### 8500.2 ECWN-1

Collect finding information from the wireless discovery and wireless device reviewer(s) to identify active wireless services. Verify that all implemented wireless services are documented in the SSAA and approved by the DAA. Verify that local site documentation includes instructions to users on operation of approved and unapproved wireless services. Verify that local documentation requires that imbedded wireless services be disabled unless specifically authorized by the DAA. Verify that Wireless computing capabilities are not independently configurable by the users.

---

**Default Finding Details** Wireless computing and networking capabilities from workstations, laptops, personal digital assistants (PDAs), handheld computers, cellular phones, or other portable electronic devices are implemented in accordance with DoD wireless policy. The following issues were noted:

Implemented wireless services are not documented in the SSAA.  
Local site documentation does not include instructions to users on operation of approved and unapproved wireless services.  
Local documentation does not require that imbedded wireless services be disabled unless specifically authorized by the DAA.  
Wireless computing and networking capabilities may be independently configured by end users.

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**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

### Fixes

#### 8500.2 ECWN-1

Implement wireless computing and networking capabilities workstations, laptops, personal digital assistants (PDAs), handheld computers, cellular phones, or other portable electronic devices in accordance with DoD wireless policy.  
Document all wireless services in the SSAA.  
Include instructions to users on operation of approved and unapproved wireless services in local site documentation.  
Implement and enforce procedures to require that imbedded wireless services be disabled unless specifically authorized by the DAA.  
Implement and enforce procedures to prevent wireless computing and networking capabilities from being independently configured by end users.

Notes:

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**8500.2 IAAC-1      V0008466 CAT I      No comprehensive account management process exists**

8500.2 IA Control: IAAC-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** No comprehensive account management process exists

**Vulnerability Discussion** A comprehensive account management process will ensure that only authorized users can gain access to workstations, applications, and networks and that individual accounts designated as inactive, suspended, or terminated are promptly deactivated. Such a process greatly reduces the risk that accounts will be misused or hijacked.

---

**Checks**

**8500.2 IAAC-1**

Interview the IAM/O to verify documented operating procedures exist for user and system account creation, termination, and expiration.  
Obtain a list of recently departed personnel and verify that their accounts were removed or deactivated on all systems in a timely manner (e.g., less than two days).

---

**Default Finding** The following issues were noted:

**Details** A comprehensive account management process is not implemented to ensure that only authorized users can gain access to workstations, applications, and networks Individual accounts designated as inactive, suspended, or terminated are not promptly deactivated.

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 IAAC-1**

Develop, document and enforce operating procedures for user and system account creation, termination, and expiration.

Implement procedures to ensure accounts of departed personnel are removed or deactivated on all systems in a timely manner (e.g., less than two days).

Notes:

## 8500.2 IAGA-1      V0008467 CAT II      Unapproved group authenticators in use

8500.2 IA Control: IAGA-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Unapproved group authenticators in use

**Vulnerability Discussion** Group authenticators for application or network access may be used only in conjunction with an individual authenticator. Any use of group authenticators not based on the DoD PKI has been explicitly approved by the Designated Approving Authority (DAA). Having group accounts does not allow for proper auditing of who is accessing or changing the network unless an individual authenticator is also used.

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### Checks

#### 8500.2 IAGA-1

Verify if group or shared accounts are used to access a system or application. If group or shared accounts are used, verify they are based on the DOD PKI and only used in conjunction with individual user authenticators. If group authenticators are not based on the DOD PKI, verify they have been explicitly approved by the DAA.  
For example, if a user authenticates to a web application, that user may be mapped or assigned to a group account that has access to a backend database.

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**Default Finding** The following issues were noted:

**Details** Group authenticators are used for access without a tie to an individual authenticator.  
Group authenticators not based on the DoD PKI has not been explicitly approved by the Designated Approving Authority (DAA).

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**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

### Fixes

#### 8500.2 IAGA-1

If group or shared accounts are absolutely necessary to access a system or application implement and enforce processes to ensure they are only used in conjunction with individual user authenticators.  
For example, if a user authenticates to a web application, that user may be mapped or assigned to a group account that has access to a backend database.  
Obtain DAA approval for Group authenticators not based on the DoD PKI.

Notes:

**8500.2 IAIA-1      V0008468   CAT I      Inadequate Individual I & A**

8500.2 IA Control: IAIA-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate Individual Identification and Authentication

**Vulnerability Discussion** Failure to properly identify individuals before allowing access to DOD Information Systems could result in theft or loss of sensitive or classified information.

**Checks**

**8500.2 IAIA-1**

DODI 8500.2 password complexity and length requirements are out of date. Obtain a copy of the latest JTF GNO password guidance. Verify compliance by interviewing the IAM and reviewing OS, Application, and Network SRR results.

**Default Finding** One or more of the following items were found:

**Details** A two-factor authentication system (e.g., a unique token plus PIN) or user logon ID and password is not used.

- Related to password:
  - password used is not a case sensitive, mix of upper case letters, lower case letters, numbers, and special characters, including at least one of each, and of a sufficient length to meet current DOD/JTF GNO Policy.
  - at least 4 characters are not required to be changed when a new password is created.
  - registration to receive a user ID and password does not include authorization by a supervisor
  - the request for a new password is not done in person before a designated registration authority
  - system mechanisms do not enforce automatic expiration of passwords
  - system mechanisms do not prevent password reuse
  - processes are not in place to validate that passwords are sufficiently strong to resist cracking and other attacks intended to discover a users password
  - factory set, default or standard-user IDs and passwords were not removed or changed
  - authenticators are not protected commensurate with the classification or sensitivity of the information accessed
  - passwords or other authenticators are shared
  - passwords are not encrypted for storage
  - Passwords are not encrypted for transmission
  - passwords or other authenticators are embedded in access scripts or stored on function keys

MAC 1 and Classified

The information system does not employ multifactor authentication.

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 IAIA-1**

- Implement the IA Control IAIA-1 as modified by the latest JTF GNO length and complexity requirements.
- Require at least 4 characters be changed when a new password is created.
- Require registration to receive a user ID and password include authorization by a supervisor.
- Require the request for a new password be done in person before a designated registration authority.
- Require system mechanisms be implemented to enforce automatic expiration of passwords and to prevent password reuse.
- Require processes are in place to validate that passwords are sufficiently strong to resist cracking and other attacks intended to discover a user's password.
- Require all factory set, default or standard-user IDs and passwords be removed or changed.
- Require all authenticators be protected commensurate with the classification or sensitivity of the information accessed.
- Forbid sharing of passwords or other authenticators.
- Require that passwords be encrypted for storage and transmission.
- Forbid passwords or other authenticators embedded in access scripts or stored on function keys.
- Control Enhancement: (MAC 1 & Classified):
- Require that the information system employ multifactor authentication.

Notes:



**8500.2 IA KM-1      V0008469   CAT II      Insufficient Key management**

8500.2 IA Control: IA KM-1

References: Department of Defense (DOD) Instruction 8500.2,  
Information Assurance (IA) Implementation

**Vulnerability** Insufficient Key management

**Vulnerability  
Discussion**

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**Checks**

**8500.2 IA KM-1**

Interview the network, OS, and application reviewers to determine if the site is using key management technology.

Verify that all symmetric key management technology is NIST-approved and that all asymmetric keys are managed using DOD PKI Class 3 certificates or pre-placed keying material.

---

**Default Finding** The following issues were noted:

**Details** Symmetric Keys are produced, controlled, and distributed using other than NIST-approved key management technology and processes.  
Asymmetric Keys are produced, controlled, and distributed using other than DoD PKI Class 3 certificates or pre-placed keying material.

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**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 IA KM-1**

Develop and implement procedures to ensure that all symmetric key management technology is NIST-approved and that all asymmetric keys are managed using DOD PKI Class 3 certificates or pre-placed keying material.

Notes:

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**8500.2 IA TS-1      V0008472   CAT II      DoD PKI not used for IA**

8500.2 IA Control: IA TS-1

References: Department of Defense (DOD) Instruction 8500.2,  
Information Assurance (IA) Implementation

**Vulnerability** DoD PKI not used for IA

**Vulnerability  
Discussion**

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**Checks**

**8500.2 IA TS-1**

Verify the site uses their Common Access Card (CAC) to access all systems.

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**Default Finding** Identification and authentication is not accomplished using the DoD PKI Class 3 certificate and hardware security token

**Details**

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**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 IA TS-1**

Configure all systems to use the DoD PKI Class 3 certificate and hardware security token for Identification and authentication.

Notes:

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**8500.2 PECF-1      V0008474   CAT I      Unauthorized physical access**

8500.2 IA Control: PECF-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Unauthorized physical access

**Vulnerability Discussion** To protect sensitive information, procedures must be developed and enforced to insure that only authorized personnel with appropriate need-to-know are granted physical access to computing facilities that process sensitive information or unclassified information that has not been cleared for release.

**Checks**

**8500.2 PECF-1**

Interview Security Manager to ensure that physical access to the computing facility is granted only to authorized personnel with a need to know.

**Default Finding** The following issues were noted:

**Details** Access list is not maintained  
Unauthorized personnel are granted physical access to computing facilities  
Personnel without a need-to-know are granted physical access to computing facilities that process sensitive information or unclassified information that has not been cleared for release.

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 PECF-1**

Develop and implement procedures to ensure physical access to the computing facility is granted only to authorized personnel with a need to know .

Notes:

**8500.2 PECS-1      V0008476   CAT I      Improper Clearing or Purging Procedures**

8500.2 IA Control: PECS-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Improper Clearing or Purging Procedures

**Vulnerability Discussion** Failure to purge sensitive systems before maintenance, turn-in, release, or reuse can result in unauthorized personnel having access to sensitive data.

**Checks**

**8500.2 PECS-1**

Interview the Security Manager to verify that procedures exist to clear and sanitize all documents, equipment, and machine readable media containing sensitive data are cleared and sanitized before being released outside of the Department of Defense. Verify that the procedures are strictly enforced.

**Default Finding** Activity is not in compliance in the following areas:

**Details** Documents are not cleared of sensitive material before release.  
Equipment containing sensitive data is not cleared or sanitized before release.  
Machine readable media containing sensitive data is not cleared or sanitized before release.

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 PECS-1**

Implement/enforce a procedure for clearing and sanitizing documents, equipment, and machine readable media containing sensitive data before release outside of the DOD.

Notes:

**8500.2 PEDI-1      V0008479    CAT I      Data Displays incorrectly positioned**

8500.2 IA Control: PEDI-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Data Displays incorrectly positioned

**Vulnerability Discussion** Failure to limit access to unauthorized personnel to classified information can result in the loss or compromise of sensitive or classified information, including NOFORN information.

**Checks**

**8500.2 PEDI-1**

Observe the placement of devices that display or output classified or sensitive information in human-readable form and verify they are positioned to deter unauthorized individuals from reading the information.

**Default Finding Details** Classified or sensitive monitors/displays are not adequately safeguarded from viewing by unauthorized personnel.

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 PEDI-1**

1. Position monitors/displays so that they are not easily viewed by unauthorized persons and are under authorized personnel control at all times.
2. Follow escort procedures of announcing unauthorized personnel in the area.
3. Ensure that unauthorized personnel are escorted when they are in the immediate vicinity of sensitive or classified displays.

Notes:

**8500.2 PEEL-1      V0008480    CAT III      Inadequate automatic emergency lighting system**

8500.2 IA Control: PEEL-1

References: Department of Defense (DOD) Instruction 8500.2, Information Assurance (IA) Implementation

**Vulnerability** Inadequate automatic emergency lighting system

**Vulnerability Discussion** Lack of automatic emergency lighting can cause injury and/or death to employees and emergency responders.

**Checks**

**8500.2 PEEL-1**

Look over the facility and verify that automatic emergency lighting exists in areas containing MAC III equipment that covers emergency exits and evacuation routes.

PDI ISS-015 covers this requirement

**Default Finding Details** An automatic emergency lighting system does not properly cover the areas required by the IA Control.

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 PEEL-1**

Install automatic emergency lighting in areas containing MAC III equipment that covers emergency exits and evacuation routes.

Notes:

**8500.2 PEFD-1 V0008482 CAT I Inadequate fire detection**

8500.2 IA Control: PEFD-1

References: Department of Defense (DOD) Instruction 8500.2,  
Information Assurance (IA) Implementation

**Vulnerability** Inadequate fire detection

**Vulnerability Discussion** Inadequate fire detection and alerting can cause injury and death to personnel and major facility damage.

**Checks**

**8500.2 PEFD-1**

Interview the Security Manager and tour the facility to verify the existence of properly installed battery-operated or electric standalone smoke detectors.

PDI ISS-010 generally covers this requirement but not specifically.

**Default Finding Details** There are no battery-operated or electric stand-alone smoke detectors installed in the facility.

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 PEFD-1**

Install battery-operated or electric stand-alone smoke detectors as required by PEFD-1.

Notes:

**8500.2 PEFI-1 V0008484 CAT II Inadequate fire safety program**

8500.2 IA Control: PEFI-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2) ,  
NIST Special Publication 800-53 (SP 800-53)

**Vulnerability** Inadequate fire safety program

**Vulnerability Discussion** Lack of a fire safety inspection and failure to correct fire inspection deficiencies as soon as possible can lead to possible fires, causing possible injury/loss of life for employees and loss of services/productivity.

**Checks**

**8500.2 PEFI-1**

Interview the local security manager and fire marshal to determine compliance.  
PDIs ISS-011 and ISS-012 together cover this requirement.

**Default Finding Details** Computing facilities do not undergo a periodic (annual minimum) fire marshal inspection.  
Fire safety deficiencies discovered during fire marshal inspections are not being corrected as soon as possible.

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 PEFI-1**

Arrange for periodic Fire Marshall Inspections (annual minimum).  
Ensure all deficiencies are corrected as soon as possible. A report should be submitted to fire department and commander/director detailing steps taken to correct deficiencies.

Notes:

**8500.2 PEFS-1      V0008485    CAT II      Inadequate fire suppression**

8500.2 IA Control: PEFS-1

References: Department of Defense (DOD) Instruction 8500.2,  
Information Assurance (IA) Implementation

**Vulnerability** Inadequate fire suppression

**Vulnerability Discussion** Failure to provide adequate fire detection and suppression could result in the loss of or damage to data, equipment, facilities, or personnel.

**Checks**

**8500.2 PEFS-1**

Ask if a hand-held fire extinguisher is available within 50 feet of equipment. Visually inspect area. Ensure fire extinguisher is minimally rated for electrical fires (Class C in the form of carbon dioxide, dry chemical or halon type agents). PDI ISS-010 covers this requirement.

**Default Finding Details** Handheld fire extinguishers or fixed fire hoses are not available should an alarm be sounded or a fire be detected.

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 PEFS-1**

Install proper fire suppression equipment.

Notes:

**8500.2 PEHC-1      V0008487    CAT II      Inadequate Humidity Controls**

8500.2 IA Control: PEHC-1

References: Department of Defense (DOD) Instruction 8500.2,  
Information Assurance (IA) Implementation

**Vulnerability** Inadequate Humidity Controls

**Vulnerability Discussion** Fluctuations in humidity can be potentially harmful to personnel or equipment causing the loss of services or productivity.

**Checks**

**8500.2 PEHC-1**

Interview the Security Manager and tour the area to verify compliance. PDI ISS-019 covers this requirement

**Default Finding Details** MAC III areas do not have humidity controls installed that provide an alarm in case of fluctuations so adjustments to humidity control systems can be made manually

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 PEHC-1**

Install humidity controls as required by MAC level.

Notes:

**8500.2 PEMS-1 V0008489 CAT I Inadequate master power shut off capability**

8500.2 IA Control: PEMS-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate master power shut off capability

**Vulnerability Discussion** A lack of an emergency shut-off switch or a master power switch for electricity to IT equipment could cause damage to the equipment or injury to personnel during an emergency.

**Checks**

**8500.2 PEMS-1**

Interview the Security Manager and visit the facility to verify the existence, protection and marking of the emergency power-off switch.

PDI ISS-013 covers this requirement.

**Default Finding Details** A master power switch or emergency cut-off switch for the IT equipment is not present or it is not located near the main entrance of the IT area.  
The emergency power switch is not properly labeled  
The emergency power switch is not protected by a cover to prevent accidental shut-off of the power.

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 PEMS-1**

Properly install, mark and protect a master power switch or emergency cut-off switch within the IT area.

Notes:

**8500.2 PEPF-1 V0008490 CAT I Inadequate security of physical access points**

8500.2 IA Control: PEPF-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate security of physical access points

**Vulnerability Discussion** Failure to limit access can result in the loss or compromise of sensitive information and loss of IS system capability through theft or destruction.

**Checks**

**8500.2 PEPF-1**

Interview the security and tour the facility to verify compliance.  
Are all physical access points controlled during working hours?  
Are all physical access points guarded or locked during non-work hours?

**Default Finding Details** Physical access points are not controlled during working hours.  
Physical access points are not guarded or locked during non-work hours.

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 PEPF-1**

Properly secure all physical access points to the facility.

Notes:

**8500.2 PEPS-1      V0008492   CAT III      Facility penetration testing not conducted**

8500.2 IA Control: PEPS-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** A facility penetration testing process is not in place

**Vulnerability Discussion** Failure to periodically test the building security could lead to the unauthorized access of an individual into the facility.

---

**Checks**

**8500.2 PEPS-1**

Interview the Security Manager to determine if a facility penetration testing process is in place that includes periodic (minimum of annual) , unannounced attempts to penetrate key computing facilities. Verify by reviewing documented results. PDI PH-015 covers this requirement.

---

**Default Finding Details** A procedure has not been developed for a facility penetration testing process that includes periodic (annual minimum), unannounced attempts to penetrate key computing facilities (areas containing systems processing classified and sensitive information).

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**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 PEPS-1**

Develop procedures for a facility penetration testing process that includes periodic (annual minimum), unannounced attempts to penetrate key computing facilities. Results of these test should be provided to commander/director and base physical security specialist.

Notes:

**8500.2 PESL-1      V0008493    CAT II      Automatic screen-lock is not functional**

8500.2 IA Control: PESL-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2) ,  
NIST Special Publication 800-53 (SP 800-53)

**Vulnerability** Automatic screen-lock is not functional

**Vulnerability Discussion** The ability to time activity for accounts could prevent malicious intrusion into, and possible modification of, accounts if a user leaves his desk for a period of time.

---

**Checks**

**8500.2 PESL-1**

Determine compliance by reviewing OS, Application, and Network SRR results.  
The following PDIs apply to Screen Locks: NET0650, NET0685, NPR410, WIR0230, Application 2.3.2, NT 3.006, UNIX L032, UNIX L106, UNIX L216, UNIX L104, UNIX G605, UNIX AIX06, UNIX W27, Application 2.3.1, NT 3.006, NT 3.021, NT 3.026, NT5.006, NT 5.102, ; These are not all inclusive (Windows checks are missing)  
The following PDIs apply to Session Time-Outs: DO0286, DataBase GENINIT, DSN18.12, OS/390 ZMQS0020, ZMQS0020, ZWMQ0020, TGS-TSOL-030, AIX06, IIS3500, WEB2060, WN010; These are not all inclusive as some systems do not have a PDI that check for this control.  
Manually test this requirement on a sampling of workstations.

---

**Default Finding** The following issues were noted:

**Details** Screen locks are not functional on all workstations.  
The screen lock does not automatically set after 15 minutes of inactivity.  
The screen lock cannot be manually acticated.  
The screen lock does not put an unclassified pattern on the entire screen.  
Deactivation of the screen lock does not require a unique authenticator.

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**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 PESL-1**

Ensure all terminals will log off automatically if left unattended for over 15 minutes. Exceptions may be made for functions that require an extended time to complete. See individual technology PDIs for details.

Notes:



## 8500.2 PESP-1      V0008494 CAT II      Inadequate Workplace Security Procedures

8500.2 IA Control: PESP-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2) ,  
NIST Special Publication 800-53 (SP 800-53)

**Vulnerability** Inadequate Workplace Security Procedures

**Vulnerability Discussion** Failure to have proper workplace security procedures can lead to the loss or compromise of classified or sensitive information.

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### Checks

#### 8500.2 PESP-1

Interview the Security Manager to determine compliance with the DOD IA Control:

Verify the existence of policy and procedures to ensure the proper handling and storage of information, such as end-of-day security checks, unannounced security checks, and, where appropriate, the imposition of a two-person rule within the computing facility.

Verify the existence of a system of security checks at the close of each working day to ensure that the area is secure. An SF 701: Activity Security Checklist, is required to record such checks. An SF 702: Security Container Check Sheet, is required to record the use of all vaults, secure rooms, and containers used for the storage of classified material.

Ensure media transport and control of media release is addressed by the local organization (NIST MP-5).

Check should be made for a local SOP that addresses output handling and retention (NIST SI-12).

Check should verify that the SOP is being followed (NIST SI-12).

---

**Default Finding** Workplace security procedures are inadequate in the following areas:

**Details** End-of-Day checks

Lack of two-person rule

Missing or inadequate security container form

Information media not controlled (NIST MP-5).

Information handling and retention not addressed by SOP or SOP not followed (NIST SI-12).

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**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

### Fixes

#### 8500.2 PESP-1

Implement policy and procedures to ensure the proper handling and storage of information, such as end-of-day security checks, unannounced security checks, and, where appropriate, the imposition of a two-person rule within the computing facility.

Establish a system of security checks at the close of each working day to ensure that the area is secure. An SF 701: Activity Security Checklist, shall be used to record such checks. This form may be modified to suit the individual security (or safety) needs of the organization; i.e., entries for STU-III CIK secured or coffee pot turned off. An SF 702: Security Container Check Sheet, shall be used to record the use of all vaults, secure rooms, and containers used for the storage of classified material.

Notes:

**8500.2 PESS-1 V0008495 CAT I Improper Storage of Documents and Equipment**

8500.2 IA Control: PESS-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Improper Storage of Documents and Equipment

**Vulnerability Discussion** Failure to store classified in an approved container can lead to the loss or compromise of classified or sensitive information.

**Checks**

**8500.2 PESS-1**

Interview the Security manager and tour the facility to verify that documents and equipment are stored in approved containers or facilities with maintenance and accountability procedures that comply with DoD 5200.1-R.

**Default Finding Details** Classified or sensitive material and equipment are not stored in accordance with its highest classification level or to the level of data being processed.

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 PESS-1**

Establish a secure means of storing all classified or sensitive material. Approved storage may be in a GSA approved safe, vault, or an approved secure room. Ensure storage meets or exceeds requirements for the classification level and type of material stored.

Notes:

**8500.2 PETC-1 V0008496 CAT III Inadequate Temperature Controls**

8500.2 IA Control: PETC-1

References: Department of Defense (DOD) Instruction 8500.2, Information Assurance (IA) Implementation

**Vulnerability** Inadequate Temperature Controls

**Vulnerability Discussion** Lack of temperature controls can lead to fluctuations in temperature which could be potentially harmful to personnel or equipment operation.

**Checks**

**8500.2 PETC-1**

Interview the security manager and tour the facility to determine if temperature controls are installed that provide an alarm when temperature fluctuations potentially harmful to personnel or equipment operation are detected. PDI ISS-018 covers this requirement.

**Default Finding Details** Temperature controls have not been installed that provide an alarm when temperature fluctuations are detected.

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 PETC-1**

Install temperature controls that provide an alarm when temperature fluctuations potentially harmful to personnel or equipment operation are detected. Adjustments to heating or cooling systems may be made manually.

Notes:

**8500.2 PETN-1      V0008498    CAT III      Inadequate employee training in the operation of e**

8500.2 IA Control: PETN-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate employee training in the operation of environmental controls.

**Vulnerability Discussion** If employees have not received training on the environmental controls they will not be able to respond to a fluctuation of environmental conditions which could result in harm to the IS Equipment.

---

**Checks**

**8500.2 PETN-1**

Interview the Security manager and a random selection of employees to determine if employees receive initial and periodic (minimum of annual) training in the operation of environmental controls.

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**Default Finding Details** Employees have not received initial and periodic (minimum of annual) training in the operation of the environmental controls (heating/humidity)

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 PETN-1**

Ensure all employees receive initial and periodic (annual) training for the operation of environmental control.

Notes:

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**8500.2 PEVC-1      V0008499    CAT I      Inadequate Visitor Control.**

8500.2 IA Control: PEVC-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate Visitor Control.

**Vulnerability Discussion** Failure to identify and control visitors could result in unauthorized personnel gaining access to the facility with the intent to compromise classified information, steal equipment, or damage equipment or the facility.

---

**Checks**

**8500.2 PEVC-1**

Interview the Security Manager and review documentation to determine if signed procedures exist for controlling visitor access and maintaining a detailed log of all visitors to the computing facility.

PDI PH-050 addresses the requirement except it asks for a program. The IA Control asks for a procedure.

---

**Default Finding Details** A program has not been established to identify and control visitors.

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**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 PEVC-1**

Establish a program to control visitors. Program will include verification of clearance/investigation status, personal identification of visitor and registering of visitors in a detailed log.

Notes:

## 8500.2 PEVR-1 V0008500 CAT I Inadequate Voltage Control

8500.2 IA Control: PEVR-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate Voltage Control

**Vulnerability Discussion** Failure to use automatic voltage control can result in damage to the IT equipment creating a service outage.

---

### Checks

#### 8500.2 PEVR-1

Interview the security manager and tour the facility to determine if automatic voltage control is implemented for IT assets.

---

**Default Finding Details** The use of automatic voltage control (power filtering) has not been implemented for IT assets

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**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

### Fixes

#### 8500.2 PEVR-1

Ensure an automatic voltage control is being utilized for all IT assets.

Notes:

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## 8500.2 PRAS-1 V0008501 CAT I Improper Access to Information

8500.2 IA Control: PRAS-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Improper Access to Information

**Vulnerability Discussion** Failure to designate an appropriate IT level could result in an individual having access to an information system without the required investigative and adjudicative prerequisites.  
Failure to properly clear personnel before assigning IT Duties could result in compromise or theft of sensitive information or damage to the system.

---

### Checks

#### 8500.2 PRAS-1

Interview the Security Manager. Ask if an IT (ADP) Designation Program exists. Ask if all positions have been designated. Look at documentation such as DD Forms 2875 or Personnel Security Rosters to check if different IT levels are designated. Ask for proof of IT level of a known SA and confirm if IT I was granted and the individual has an SSBI (or it is in process.)

---

**Default Finding Details** DOD military, civilian personnel, and contractor personnel have not been assigned with one of the three IT (ADP) designations based on specific criteria as designated in DOD 5200.2-R, Appendix K (Internet version Appendix 10).  
Personnel have not been properly cleared before performing duties of an IT position.

---

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

### Fixes

#### 8500.2 PRAS-1

Ensure all positions; military, civilian, and contractors, are assigned to one of the three IT levels. Designations should be noted on Position Descriptions for Civilian Employees, JTD for Military Personnel, and in the Statement of Work or Contract for contractors.

Ensure personnel are properly cleared before assigning the duties of the position.

Notes:

## 8500.2 PRMP-1 V0008503 CAT I Inadequate Control of Maintenance Personnel

8500.2 IA Control: PRMP-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Inadequate Control of Maintenance Personnel

**Vulnerability Discussion** Failure to adequately clear and control Maintenance Personnel can lead to theft or compromise of information or loss of IS capability.

---

### Checks

#### 8500.2 PRMP-1

Interview the traditional reviewer to determine compliance.

Verify that:

Maintenance is performed only by authorized personnel  
a list of authorized maintenance personnel is documented and maintained.

All maintenance personnel are cleared to the highest level of information.

Cleared maintenance personnel are escorted as appropriate.

If uncleared or lower-cleared personnel perform maintenance on the system they are they escorted by a fully cleared and technically qualified escort.

All the maintenance activities performed by uncleared or lower-cleared personnel are monitored and recorded in a maintenance log as determined by the IAM.

All maintenance personnel comply with U.S. citizenship requirements.

---

**Default Finding** The following issues were noted:

**Details** Failure to ensure:

maintenance is performed only by authorized personnel  
a list of authorized maintenance personnel is documented and maintained  
all maintenance personnel are cleared to the highest level of information  
maintenance personnel are escorted as appropriate  
If uncleared or lower-cleared personnel perform maintenance on the system they are they escorted by a fully cleared and technically qualified escort  
all the maintenance activities performed by uncleared or lower-cleared personnel are monitored and recorded in a maintenance log as determined by the IAM  
all maintenance personnel comply with U.S. citizenship requirements

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**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

### Fixes

#### 8500.2 PRMP-1

Implement a maintenance control SOP and procedures to ensure:

Maintenance is performed only by authorized personnel.  
a list of authorized maintenance personnel is documented and maintained.

All maintenance personnel are cleared to the highest level of information.

Maintenance personnel are escorted as appropriate

If uncleared or lower-cleared personnel perform maintenance on the system they are they escorted by a fully cleared and technically qualified escort.

All the maintenance activities performed by uncleared or lower-cleared personnel are monitored and recorded in a maintenance log as determined by the IAM.

All maintenance personnel comply with U.S. citizenship requirements.

Notes:

**8500.2 PRNK-1      V0008505    CAT I                      Improper Access granted**

8500.2 IA Control: PRNK-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Improper Access granted

**Vulnerability Discussion** Failure to verify clearance, need-to-know, and execute a non-disclosure agreement before granting access to classified or sensitive material can result in compromise or theft of information.

---

**Checks**

**8500.2 PRNK-1**

Interview the Security Manager to determine compliance.

Verify that appropriate security clearance is required for access.

Verify that access is granted based on need to know (assigned duties).

Ask to review the user registration form being used to document users. If not a DD Form 2875, ensure their form has the same functionality.

IS-060 generally covers this requirement.

---

**Default Finding** The following issues were noted:

**Details** Personnel who are granted access to information do not have a valid Need-to-Know.  
Personnel who are granted access to information do not have proper security clearance.  
Personnel who are granted access to information have not executed a Non-Disclosure Agreement.  
User registration forms are not maintained/required.

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 PRNK-1**

Prior to receiving access to IS information it must be determined that an individual has met the following requirements:

- a. The person has the appropriate clearance and access eligibility.
- b. The person has signed an approved non-disclosure agreement.
- c. The person has a need-to-know the information.

Initiate a System Access Control Form for each person who requests logon access to a computer system.  
The IAO will retain all forms for each person granted access to their systems.

Notes:

**8500.2 PRRB-1 V0008506 CAT I User Agreements are not in place.**

8500.2 IA Control: PRRB-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** User Agreements are not in place.

**Vulnerability Discussion**

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**Checks**

**8500.2 PRRB-1**

Interview the security Manager to determine compliance.  
Have the IS User rules been created and published?  
Do the IS User rules include consequences of inconsistent behavior or non-compliance?  
Is signed acknowledgement of the IS User rules a condition for access to the system?  
Compliance usually takes the form of a user agreement.

---

**Default Finding** FINDINGS RELATED TO THE REQUIREMENTS OF PRRB-1:

**Details** IS User rules have not been created and published.  
IS User rules do not include consequences of inconsistent behavior or non-compliance.  
Signed acknowledgement of the user rules is not a condition for access to the system.

---

**OPEN:**  **NOT A FINDING:**  **NOT REVIEWED:**  **NOT APPLICABLE:**

**Fixes**

**8500.2 PRRB-1**

Establish and publish a set of rules that describe the IA operations of the DoD information system and clearly delineate IA responsibilities and expected behavior of all user personnel. Ensure the rules include the consequences of inconsistent behavior or noncompliance and that signed acknowledgement of the rules is a condition of access. Detailed requirements of such formal user agreements are found in CJCSM 6510-01.

Notes:

**8500.2 PRTN-1      V0008507 CAT I      Insufficient Information Assurance Training Progra**

8500.2 IA Control: PRTN-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Insufficient Information Assurance Training Program

**Vulnerability Discussion** Well trained IT personnel are the first line of defense against attacks or disruptions to the Information System. Lack of sufficient training can lead to security oversights leading to compromise or failures to take necessary actions to prevent disruptions to operations in situations requiring the exercise of COOP and DRPs.

---

**Checks**

**8500.2 PRTN-1**

Interview the Security Manager to determine compliance.  
Does an IA training and familiarization program exist?  
Does the program include initial and annual refresher IA training?  
Does the IA training outline individual responsibilities and prescribed roles for IA-related plans such as incident response, configuration management, COOP or disaster recovery?  
Evidence must be produced by the organization that they comply with the requirement to provide the training (annually per CJCSI- 510-01M) to all employees.  
Training must include a review of their contingency roles and responsibilities.

---

**Default Finding** The following findings were noted:

**Details** No evidence of an IA training and familiarization program.  
The IA Training and familiarization Program does not include both initial and annual refresher IA training.  
The IA training does not outline individual responsibilities and prescribed roles for IA-related plans such as incident response, configuration management, COOP or disaster recovery.

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

**Fixes**

**8500.2 PRTN-1**

Develop and implement a program to ensure that upon arrival and annually thereafter, all personnel receive training and familiarization to perform their assigned IA responsibilities, to include familiarization with their prescribed roles in all IA- related plans such as incident response, configuration management and COOP or disaster recovery.

Notes:



## 8500.2 VIIR-1      V0008508 CAT II      Insufficient Incident Response Planning

8500.2 IA Control: VIIR-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Insufficient Incident Response Planning

**Vulnerability Discussion** Without a plan, training and assistance,, users will not know what action(s) need to be taken in the event of system attack or system/application compromise. This could result in additional compromise/theft or degraded system capability.

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### Checks

#### 8500.2 VIIR-1

Verify that the organization provides or uses an incident support resource that offers advice and assistance to users of the information system for the handling and reporting of security incidents. The support resource must be an integral part of the organization's incident response capability. This capability is addressed by the DOD Computer Network Defense Service Provider (CNDSP) Program but participation at the organization level must be verified.

Does the incident response plan exist?

Does the plan include the following items:

CND Service Provider is identified?

Reportable incidents are defined?

Incident response standard operating procedures to include INFOCON are outlined?

A provision for user training and annual refresher training?

Establishment of an incident response team?

Is the plan exercised at least annually?

ISS-050 only partially covers this requirement

---

**Default Finding Details** The following vulnerabilities related to incident response were noted:

The Incident Response Plan does not exist.

The Incident Response Plan does not include the following items:

Identity of the CND Service Provide.

Definition of reportable incidents.

Outline of incident response standard operating procedures to include INFOCON

Provision for user training and annual refresher training

Establishment of an incident response team

The Incident Response Plan is not exercised annually.

---

**OPEN:**     **NOT A FINDING:**     **NOT REVIEWED:**     **NOT APPLICABLE:**

### Fixes

#### 8500.2 VIIR-1

Fully Participate in the DOD Computer Network Defense Service Provider (CNDSP) Program as described in DoD Instruction O-8530.2 Or:

Develop and Incident response Plan.

Exercise the Incident response plan annually.

Provide for user incident response training.

Provide an incident support resource that offers advice and assistance to users for the handling and reporting of security incidents.

The support resource must be an integral part of the organization's incident response capability.

Notes:

## 8500.2 VIVM-1 V0008510 CAT I Vulnerability Management Program is Inadequate

8500.2 IA Control: VIVM-1

References: Department of Defense Instruction 8500.2 (DODI 8500.2)

**Vulnerability** Vulnerability Management Program is Inadequate

**Vulnerability Discussion** Exploiting well-known vulnerabilities is a proven and effective technique followed by malicious users. To combat this, the DOD IAVM program formally announces and tracks the implementation of security specific patches, service releases, hot fixes and system upgrades directed by CINC STRAT through the JTD CNO. Compliance with IAVMs is required unless otherwise directed by system PM. If IAVMs are not complied with, not only is this a violation of DOD policy and procedures, but the site is exposing its most critical systems to attack based upon the exploitation of well-known vulnerabilities. In order to fully comply, each activity must have an active program to identify and fix system vulnerabilities.

### Checks

#### 8500.2 VIVM-1

This is a policy / process check, not a patching or IAVA check.  
Interview the IAM/O to verify that a vulnerability management policy and an active program exists.  
Spot check SRR results and make a determination of the effectiveness of their overall vulnerability management program.  
Verify that vulnerability assessment tools are used locally (e.g., Retina, ISS Scanner) and that the operators of the tools have been trained to properly conduct internal and external assessments. (See ECMT for additional direction in this area).  
Obtain answers to the following questions:  
Does a vulnerability management process exist?  
Does the vulnerability management process include the systematic identification and mitigation of software and hardware vulnerabilities?  
Are mitigation efforts independently validated?  
Does independent validation include inspections?  
Does independent validation include the use of automated assessment or state management tools?  
Have vulnerability assessment tools been acquired?  
Have personnel been trained on the assessment tools?  
Have procedures for internal and external assessments been developed?  
Are internal and external assessments conducted?

### Default Finding Details

The following issues were noted:  
Vulnerability management process does not exist.  
Vulnerability management process is ineffective as noted by a high incident of open vulnerabilities.  
The vulnerability management process does not include the systematic identification and mitigation of software and hardware vulnerabilities.  
Vulnerability mitigation efforts are not independently validated.  
Independent validation does not include inspection  
Independent validation does not include the use of automated assessment or state management tools  
Vulnerability assessment tools have not been acquired  
Personnel been not been trained on the assessment tools  
Procedures for internal and external assessments have not been developed  
Both internal and external assessments are not conducted.

OPEN:  NOT A FINDING:  NOT REVIEWED:  NOT APPLICABLE:

### Fixes

#### 8500.2 VIVM-1

Implement a comprehensive vulnerability management process that includes the systematic identification and mitigation of software and hardware vulnerabilities. Independently validate vulnerability mitigation through inspection and automated vulnerability assessment or state management tools.  
Acquire vulnerability assessment tools, train personnel in their use, develop procedures, and conduct regular internal and external assessments. Give preference to tools that express vulnerabilities in the Common Vulnerabilities and Exposures (CVE) naming convention and use the Open Vulnerability Assessment Language (OVAL) to test for the presence of vulnerabilities.

Notes: