| **assessment case** | | |
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| ASSESSMENT – Base Control, Part 1 of 1 | | |
| Assessment Information from Special Publication 800-53A Rev. 1 (June 2010) | | |
| **CM-8** | INFORMATION SYSTEM COMPONENT INVENTORY | |
| **CM-8.1**  **CM-8.1.1**  **CM-8.1.2**  **CM-8.1.2a**  **CM-8.1.2b**  **CM-8.1.2c**  **CM-8.1.2d**  **CM-8.1.2e** | **ASSESSMENT OBJECTIVE:**  *Determine if:*   1. *the organization* *defines information deemed necessary to achieve effective property accountability; and* 2. *the organization develops, documents, and maintains an inventory of information system components that:*    * *accurately reflects the current information system;*    * *is consistent with the authorization boundary of the information system;*    * *is at the level of granularity deemed necessary for tracking and reporting;*    * *includes organization-defined information deemed necessary to achieve effective property accountability; and*    * *is available for review* *and audit by designated organizational officials.*   **POTENTIAL ASSESSMENT METHODS AND OBJECTS:**  **Examine**: [*select from:* Configuration management policy; configuration management plan; procedures addressing information system component inventory; security plan; information system inventory records; other relevant documents or records]. | |
| **Additional Assessment Case Information** | | |
|  | | **POTENTIAL ASSESSMENT SEQUENCING:**  precursor controls: CM-9, RA-2  concurrent controls: CM-2, CM-3, CM-5, CM-6  successor controls: None |
| **Action Step** | | **Potential Assessor Evidence Gathering Actions**  **\*\*See “**[**Assessment Case Overview**](http://csrc.nist.gov/groups/SMA/fisma/assessment-cases-overview.html)**” for selecting, tailoring and executing action steps\*\*** |
|  | | *\*\*Assessment Case Assessor Note:* More convincing evidence (i.e., greater assurance) of correct implementation and operating as intended can be obtained through the assessment case actions by:   1. **Replacing bracketed values in action gathering statements to apply greater rigor in the assessment** (e.g, . replacing [“*reviewing*”] with “*studying*” or “*analyzing*”; replacing [“*observing*”] with “*inspecting*” or “*analyzing*”; replacing [“*basic*”] with “*focused*” or “*comprehensive*”); 2. **Replacing bracketed values in action gathering statements to apply greater sample coverage in the assessment** (e.g, . replacing [“*basic”*] sample with “*focused*” or “*sufficiently large”* sample); 3. **Defining additional action steps to the list of action steps suggested herein that exercise additional test methods** (i.e., Examine, Interview or Test) on additional assessment objects. |
| **CM-8.1.1.1** | | **Examine** configuration management policy, procedures addressing information system component inventory, configuration management plan, or other relevant documents; [*reviewing*] for the information deemed necessary to achieve effective property accountability. |
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| **CM-8.1.2.1**    **CM-8.1.2.1.a**  **CM-8.1.2.1.b**  **CM-8.1.2.1.c**  **CM-8.1.2.1.d**  **CM-8.1.2.1.e** | | **Examine** configuration management policy, procedures addressing information system component inventory, configuration management plan, or other relevant documents; [*reviewing*] for the measures to be employed to develop, document, and maintain an inventory of the information system components that:   * accurately reflects the current information system; * is consistent with the authorization boundary of the information system; * establishes the level of granularity deemed necessary by the organization for tracking and reporting; * includes the information deemed necessary in CM-8.1.1.1 to achieve effective property accountability; and * is available for review and audit by designated organizational officials. |
| **CM-8.1.2.2** | | **Examine** an agreed-upon [*basic*] sample of information system change records and associated information system inventory records; [*reviewing*] for evidence that the measures identified in CM-8.1.2.1.a are being applied to accurately reflect the information system. |
| **CM-8.1.2.3** | | **Examine** information system inventory records for an agreed-upon [*basic*] sample of information system components associated with the authorization boundary of the information system; [*reviewing*] for evidence that the measures identified in CM-8.1.2.1.b are being applied. |
| **CM-8.1.2.4** | | **Examine** information system inventory records for an agreed-upon [*basic*] sample of information system components; [*reviewing*] for the level of granularity identified in CM-8.1.2.1.c. |
| **CM-8.1.2.5** | | **Examine** information system inventory records for an agreed-upon [*basic*] sample of information system components; [*reviewing*] for the information identified in CM-8.1.2.1.d. |
| **CM-8.1.2.6** | | **Interview** an agreed-upon [*basic*] sample of organizational officials responsible for reviewing and auditing the inventory of information system components; conducting [*basic*] discussions for evidence that the measures identified in CM-8.1.2.1.e are being applied. |
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| **ASSESSMENT – Control Enhancement 1** | |
| **Assessment Information from Special Publication 800-53A Rev. 1 (June 2010)** | |
| **CM-8(1)** | INFORMATION SYSTEM COMPONENT INVENTORY |
| **CM-8(1).1**  **CM-8(1).1.1**  **CM-8(1).1.1a**  **CM-8(1).1.1b**  **CM-8(1).1.1c** | **ASSESSMENT OBJECTIVE:**  *Determine if the organization updates the inventory of information system components as an integral part of component:*   * *installations;* * *removals; and* * *information system updates.*   **POTENTIAL ASSESSMENT METHODS AND OBJECTS:**  **Examine**: [*select from:* Configuration management policy; configuration management plan; procedures addressing information system component inventory; information system inventory records; component installation records; other relevant documents or records].  **Interview**: [*select from:* Organizational personnel with information system installation and inventory responsibilities]. |
| **Additional Assessment Case Information** | |
|  | **POTENTIAL ASSESSMENT SEQUENCING:**  precursor controls: CM-9, RA-2  concurrent controls: CM-2, CM-3, CM-5, CM-6  successor controls: None |
| **Action Step** | **Potential Assessor Evidence Gathering Actions** |
| **CM-8(1).1.1.1**  **CM-8(1).1.1.1.a**  **CM-8(1).1.1.b**  **CM-8(1).1.1.1.c** | **Examine** configuration management policy, procedures addressing information system component inventory, configuration management plan, or other relevant documents; [*reviewing*] for the measures to be employed to update the inventory of information system components as an integral part of:  -component installations;  -component removals; and  -information system updates. |
| **CM-8(1).1.1.2** | **Examine** an agreed-upon [*basic*] sample of component installation records and associated information system inventory records; [*reviewing*] for evidence that the measures identified in CM-8(1).1.1.1.a are being applied. |
| **CM-8(1).1.1.3** | **Examine** an agreed-upon [*basic*] sample of component removal records and associated information system inventory records; [*reviewing*] for evidence that the measures identified in CM-8(1).1.1.1.b are being applied. |
| **CM-8(1).1.1.4** | **Examine** an agreed-upon [*basic*] sample of records of information system updates and associated information system inventory records; [*reviewing*] for evidence that the measures identified in CM-8(1).1.1.1.c are being applied. |
| **CM-8(1).1.1.5** | **Interview** an agreed-upon [*basic*] sample of organizational personnel with information system inventory responsibilities; conducting [*basic*] discussions for further evidence that the measures identified in CM-8(1).1.1.1 are being applied. |
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| **ASSESSMENT – Control Enhancement 2** | |
| **Assessment Information from Special Publication 800-53A Rev. 1 (June 2010)** | |
| **CM-8(2)** | INFORMATION SYSTEM COMPONENT INVENTORY |
| **CM-8(2).1**  **CM-8(2).1.1** | **ASSESSMENT OBJECTIVE:**  *Determine* *if the organization employs automated mechanisms to maintain an up-to-date, complete, accurate, and readily available inventory of information system components.*  **POTENTIAL ASSESSMENT METHODS AND OBJECTS:**  **Examine**: [*select from:* Configuration management policy; configuration management plan; procedures addressing information system component inventory; information system design documentation; information system inventory records; component installation records; other relevant documents or records].  **Test**: [*select from:* Automated mechanisms implementing information system component inventory management]. |
| **Additional Assessment Case Information** | |
|  | **POTENTIAL ASSESSMENT SEQUENCING:**  precursor controls: CM-9, RA-2  concurrent controls: CM-2, CM-3, CM-5, CM-6  successor controls: None |
| **Action Step** | **Potential Assessor Evidence Gathering Actions** |
| **CM-8(2).1.1.1** | **Examine**  configuration management plan, information system design documentation, or other relevant documents; [*reviewing*] for the automated mechanisms and their configuration settings to be employed to maintain an up-to-date, complete, accurate, and readily available inventory of information system components. |
| **CM-8(2).1.1.2** | **Examine** documentation describing the current configuration settings for an agreed-upon [*basic*]sample of automated mechanisms identified in CM-8(2).1.1.1; [*reviewing*] for evidence that these mechanisms are configured as identified in CM-8(2).1.1.1. |
| **CM-8(2).1.1.3** | **Test** an agreed-upon [*basic*]sample of the automated mechanisms and their configuration settings identified in CM-8(2).1.1.1; conducting [*basic*] testing for evidence that these mechanisms are operating as intended. |
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| **ASSESSMENT – Control Enhancement 3** | |
| **Assessment Information from Special Publication 800-53A Rev. 1 (June 2010)** | |
| **CM-8(3)** | INFORMATION SYSTEM COMPONENT INVENTORY |
| **CM-8(3).1**  **CM-8(3).1.1**  **CM-8(3).1.2**  **CM-8(3).1.3** | **ASSESSMENT OBJECTIVE:**  *Determine if:*   1. *the organization* *defines the frequency of employing automated mechanisms to detect the addition of unauthorized components/devices into the information system;* 2. *the organization employs automated mechanisms, in accordance with the organization-defined frequency, to detect the addition of unauthorized components/devices into the information system; and* 3. *the organization disables network access by such components/devices or notifies designated organizational officials.*   **POTENTIAL ASSESSMENT METHODS AND OBJECTS:**  **Examine**: [*select from:* Configuration management policy; configuration management plan; procedures addressing information system component inventory; security plan; information system design documentation; information system inventory records; component installation records; change control records; other relevant documents or records].  **Test**: [*select from:* Automated mechanisms for detecting unauthorized components/devices on the information system]. |
| **Additional Assessment Case Information** | |
|  | **POTENTIAL ASSESSMENT SEQUENCING:**  precursor controls: CM-9, RA-2  concurrent controls: AC-17, AC-18, AC-19, CM-2, CM-3, CM-5, CM-6  successor controls: None |
| **Action Step** | **Potential Assessor Evidence Gathering Actions** |
| **CM-8(3).1.1.1** | **Examine** configuration management policy, procedures addressing information system component inventory, configuration management plan, or other relevant documents; [*reviewing*] for the frequency of employing automated mechanisms to detect the addition of unauthorized components/devices into the information system. |
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| **CM-8(3).1.2.1** | **Examine** configuration management plan, information system design documentation, or other relevant documents; [*reviewing*] for the automated mechanisms and their configuration settings to be employed, in accordance with the frequency identified in CM-8(3).1.1.1, to detect the addition of unauthorized components/devices into the information system. |
| **CM-8(3).1.2.2** | **Examine** documentation describing the current configuration settings for anagreed-upon [*basic*] sample of automated mechanisms identified in CM-8(3).1.2.1; [*reviewing*] for evidence that these mechanisms are configured as identified in CM-8(3).1.2.1. |
| **CM-8(3).1.2.3** | **Test** an agreed-upon [*basic*]sample of the automated mechanisms and their configuration settings identified in CM-8(3).1.2.1; conducting [*basic*] testing for evidence that these mechanisms are operating as intended. |
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| **CM-8(3).1.3.1** | **Examine** configuration management policy, procedures addressing information system component inventory, configuration management plan, information system design documentation, or other relevant documents; [*reviewing*] for the measures (including automated mechanisms and their configuration settings) to be employed to disable network access by components/devices or to notify designated organizational officials. |
| **CM-8(3).1.3.2** | **Examine** documentation describing the current configuration settings for anagreed-upon [*basic*] sample of automated mechanisms identified in CM-8(3).1.3.1; [*reviewing*] for evidence that these mechanisms are configured as identified in CM-8(3).1.3.1. |
| **CM-8(3).1.3.3** | **Interview** an agreed upon [*basic*] sample of organizational personnel responsible for detecting and reporting unauthorized components/devices on the information system; conducting [*basic*] discussions for further evidence that the measures identified in CM-8(3).1.3.1 are being applied. |
| **CM-8(3).1.3.4** | **Test** an agreed-upon [*basic*]sample of the automated mechanisms and their configuration settings identified in CM-8(3).1.3.1; conducting [*basic*] testing for evidence that these mechanisms are operating as intended. |
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| **ASSESSMENT – Control Enhancement 4** | |
| **Assessment Information from Special Publication 800-53A Rev. 1 (June 2010)** | |
| **CM-8(4)** | INFORMATION SYSTEM COMPONENT INVENTORY |
| **CM-8(4).1**  **CM-8(4).1.1** | **ASSESSMENT OBJECTIVE:**  *Determine* *if the organization includes in property accountability information for information system components, a means for identifying by name, position, or role, individuals responsible for administering those components.*  **POTENTIAL ASSESSMENT METHODS AND OBJECTS:**  **Examine**: [*select from:* Configuration management policy; configuration management plan; procedures addressing information system component inventory; information system inventory records; component installation records; other relevant documents or records]. |
| **Additional Assessment Case Information** | |
|  | **POTENTIAL ASSESSMENT SEQUENCING:**  precursor controls: CM-9, RA-2  concurrent controls: CM-2, CM-3, CM-5, CM-6  successor controls: None |
| **Action Step** | **Potential Assessor Evidence Gathering Actions** |
| **CM-8(4).1.1.1** | **Examine** configuration management policy, procedures addressing information system component inventory, configuration management plan, or other relevant documents; [*reviewing*] for the means to identify in property accountability information for information system components, the individuals (by name, position, or role) responsible for administering those components. |
| **CM-8(4).1.1.2** | **Examine** information system inventory records for an agreed-upon [*basic*] sample of information system components; [*reviewing*] for evidence that the means identified in CM-8(4).1.1.1 are being applied. |
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| **ASSESSMENT – Control Enhancement 5** | |
| **Assessment Information from Special Publication 800-53A Rev. 1 (June 2010)** | |
| **CM-8(5)** | INFORMATION SYSTEM COMPONENT INVENTORY |
| **CM-8(5).1**  **CM-8(5).1.1** | **ASSESSMENT OBJECTIVE:**  *Determine if the organization verifies that all components within the authorization boundary of the information system are either inventoried as a part of the system or recognized by another system as a component within that system.*  **POTENTIAL ASSESSMENT METHODS AND OBJECTS:**  **Examine**: [*select from:* Configuration management policy; configuration management plan; procedures addressing information system component inventory; security plan; information system inventory records; component installation records; other relevant documents or records].  **Interview**: [*select from:* Organizational personnel with information system inventory responsibilities; organizational personnel with responsibilities for defining information system components within the authorization boundary of the system]. |
| **Additional Assessment Case Information** | |
|  | **POTENTIAL ASSESSMENT SEQUENCING:**  precursor controls: CM-9, RA-2  concurrent controls: CM-2, CM-3, CM-5, CM-6  successor controls: None |
| **Action Step** | **Potential Assessor Evidence Gathering Actions** |
| **CM-8(5).1.1.1** | **Examine** configuration management policy, procedures address information system component inventory, configuration management plan, or other relevant documents; [*reviewing*] for the measures to be employed to verify that all components within the authorization boundary of the information system are either inventoried as a part of the system or recognized by another system as a component within that system. |
| **CM-8(5).1.1.2** | **Examine** information system inventory records and associated verification documentation for an agreed-upon [*basic*] sample of components within the authorization boundary of the information system; [*reviewing*] for evidence that the measures identified in CM-8(5).1.1.1 are being applied. |
| **CM-8(5).1.1.3** | **Interview** an agreed-upon [*basic*] sample of organizational personnel with information system inventory responsibilities; conducting [*basic*] discussions for further evidence that the measures identified in CM-8(5)1..1.1 are being applied. |
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| **ASSESSMENT – Control Enhancement 6** | |
| **Assessment Information from Special Publication 800-53A Rev. 1 (June 2010)** | |
| **CM-8(6)** | INFORMATION SYSTEM COMPONENT INVENTORY |
| **CM-8(6).1**  **CM-8(6).1.1** | **ASSESSMENT OBJECTIVE:**  *Determine* *if the organization includes assessed component configurations and any approved deviations to current deployed configurations in the information system component inventory.*  **POTENTIAL ASSESSMENT METHODS AND OBJECTS:**  **Examine**: [*select from:* Configuration management policy; configuration management plan; procedures addressing information system component inventory; information system design documentation; information system inventory records; component installation records; other relevant documents or records].  **Interview:** [*select from:* Organizational personnel with inventory management and assessment responsibilities for information system components]. |
| **Additional Assessment Case Information** | |
|  | **POTENTIAL ASSESSMENT SEQUENCING:**  precursor controls: CM-9, RA-2  concurrent controls: CM-2, CM-3, CM-5, CM-6  successor controls: None |
| **Action Step** | **Potential Assessor Evidence Gathering Actions** |
| **CM-8(6).1.1.1** | **Examine** configuration management policy, procedures addressing information system component inventory, configuration management plan, or other relevant documents; [*reviewing*] for the measures to be employed to include assessed component configurations and any approved designations to current deployed configurations in the information system component inventory. |
| **CM-8(6).1.1.2** | **Examine** information system inventory records for an agreed-upon [*basic*] sample of information system components; [*reviewing*] for evidence that the measures identified in CM-8(6).1.1.1 are being applied. |