| **assessment case** | | |
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| ASSESSMENT – Base Control, Part 1 of 1 | | |
| Assessment Information from Special Publication 800-53A Rev. 1 (June 2010) | | |
| **SC-8** | TRANSMISSION INTEGRITY | |
| **SC-8.1**  **SC-8.1.1** | **ASSESSMENT OBJECTIVE:**  *Determine if the information system protects the integrity of transmitted information.*  **POTENTIAL ASSESSMENT METHODS AND OBJECTS:**  **Examine**: [*select from:* System and communications protection policy; procedures addressing transmission integrity; information system design documentation; information system configuration settings and associated documentation; other relevant documents or records].  **Test**: [*select from:* Transmission integrity capability within the information system]. | |
| **Additional Assessment Case Information** | | |
|  | | **POTENTIAL ASSESSMENT SEQUENCING:**  precursor controls: None  concurrent controls: AC-17, CM-6, MA-4, PE-4, SC-7, SC-13, SC-33, SI-7  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. |
| **SC-8.1.1.1** | | **Examine** security plan, information system design documentation, or other relevant documents; [*reviewing*] for the automated mechanisms and their configuration settings to be employed to protect the integrity of transmitted information. |
| **SC-8.1.1.2** | | **Examine** documentation describing the current configuration settings for anagreed-upon [*basic*] sample of the automated mechanisms identified in SC-8.1.1.1; [*reviewing*] for evidence that these mechanisms are configured as identified in SC-8.1.1.1. |
| **SC-8.1.1.3** | | **Test** an agreed-upon [*basic*]sample of the automated mechanisms and their configuration settings identified in SC-8.1.1.1; conducting [*basic*] testing for evidence that these mechanisms are operating as intended. |
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| **ASSESSMENT – Control Enhancement 1** | |
| **Assessment Information from Special Publication 800-53A Rev. 1 (June 2010)** | |
| **SC-8(1)** | TRANSMISSION INTEGRITY |
| **SC-8(1).1**  **SC-8(1).1.1** | **ASSESSMENT OBJECTIVE:**  *Determine if the organization employs cryptographic mechanisms to recognize changes to information during transmission unless otherwise protected by alternative physical measures.*  **POTENTIAL ASSESSMENT METHODS AND OBJECTS:**  **Examine**: [*select from:* System and communications protection policy; procedures addressing transmission integrity; information system design documentation; information system configuration settings and associated documentation; other relevant documents or records].  **Test**: [*select from:* Cryptographic mechanisms implementing transmission integrity capability within the information system]. |
| **Additional Assessment Case Information** | |
|  | **POTENTIAL ASSESSMENT SEQUENCING:**  precursor controls: None  concurrent controls: SC-7, SC-13, SC-33, SI-7, CM-6, AC-17, MA-4, PE-4  successor controls: None |
| **Action Step** | **Potential Assessor Evidence Gathering Actions** |
| **SC-8(1).1.1.1** | **Examine** security plan, information system design documentation, or other relevant documents; [*reviewing*] for the cryptographic mechanisms and their configuration settings to be employed to recognize changes to information during transmission unless otherwise protected by alternative physical measures. |
| **SC-8(1).1.1.2** | **Examine** documentation describing the current configuration settings for anagreed-upon [*basic*] sample of the cryptographic mechanisms identified in SC-8(1).1.1.1; [*reviewing*] for evidence that these mechanisms are configured as identified in SC-8(1).1.1.1. |
| **SC-8(1).1.1.3** | **Test** an agreed-upon [*basic*]sample of the cryptographic mechanisms and their configuration settings identified in SC-8(1).1.1.1; conducting [*basic*] testing for evidence that these mechanisms are operating as intended. |
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| **ASSESSMENT – Control Enhancement 2** | |
| **Assessment Information from Special Publication 800-53A Rev. 1 (June 2010)** | |
| **SC-8(2)** | TRANSMISSION INTEGRITY |
| **SC-8(2).1**  **SC-8(2).1.1**  **SC-8(2).1.1a**  **SC-8(2).1.1b**  **SC-8(2).1.1c** | **ASSESSMENT OBJECTIVE:**  *Determine if the information system in preparation for transmission maintains the integrity of information during:*   * *aggregation;* * *packaging; and* * *transformation.*   **POTENTIAL ASSESSMENT METHODS AND OBJECTS:**  **Examine**: [*select from:* System and communications protection policy; procedures addressing transmission integrity; information system design documentation; information system configuration settings and associated documentation; other relevant documents or records].  **Test**: [*select from:* Transmission integrity capability within the information system]. |
| **Additional Assessment Case Information** | |
|  | **POTENTIAL ASSESSMENT SEQUENCING:**  precursor controls: None  concurrent controls: SC-7, SC-13, SC-33, SI-7, CM-6, AC-17, MA-4, PE-4  successor controls: None |
| **Action Step** | **Potential Assessor Evidence Gathering Actions** |
| **SC-8(2).1.1.1**  **SC-8(2).1.1.1.a**  **SC-8(2).1.1.1.b**  **SC-8(2).1.1.1.c** | **Examine** security plan, information system design documentation, or other relevant documents; [*reviewing*] for the automated mechanisms and their configuration settings to be employed to, in preparation for transmission, maintain the integrity of information during:   * aggregation; * packaging; and * transformation. |
| **SC-8(2).1.1.2** | **Examine** documentation describing the current configuration settings for anagreed-upon [*basic*] sample of the automated mechanisms identified in SC-8(2).1.1.1.a; [*reviewing*] for evidence that these mechanisms are configured as identified in SC-8(2).1.1.1.a to maintain the integrity of information during aggregation. |
| **SC-8(2).1.1.3** | **Examine** documentation describing the current configuration settings for anagreed-upon [*basic*] sample of the automated mechanisms identified in SC-8(2).1.1.1.b; [*reviewing*] for evidence that these mechanisms are configured as identified in SC-8(2).1.1.1.b to maintain the integrity of information during packaging. |
| **SC-8(2).1.1.4** | **Examine** documentation describing the current configuration settings for anagreed-upon [*basic*] sample of the automated mechanisms identified in SC-8(2).1.1.1.c; [*reviewing*] for evidence that these mechanisms are configured as identified in SC-8(2).1.1.1.c to maintain the integrity of information during transformation. |
| **SC-8(2).1.1.5** | **Test** an agreed-upon [*basic*]sample of the automated mechanisms and their configuration settings identified in SC-8(2).1.1.1.a; conducting [*basic*] testing for evidence that these mechanisms are operating as intended in SC-8(2).1.1.1.a to maintain the integrity of information during aggregation. |
| **SC-8(2).1.1.6** | **Test** an agreed-upon [*basic*]sample of the automated mechanisms and their configuration settings identified in SC-8(2).1.1.1.b; conducting [*basic*] testing for evidence that these mechanisms are operating as intended in SC-8(2).1.1.1.b to maintain the integrity of information during packaging. |
| **SC-8(2).1.1.7** | **Test** an agreed-upon [*basic*]sample of the automated mechanisms and their configuration settings identified in SC-8(2).1.1.1.c; conducting [*basic*] testing for evidence that these mechanisms are operating as intended in SC-8(2).1.1.1.c to maintain the integrity of information during transformation. |