| **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-21** | SECURE NAME / ADDRESS RESOLUTION SERVICE (RECURSIVE OR CACHING RESOLVER) | |
| **SC-21.1**  **SC-21.1.1** | **ASSESSMENT OBJECTIVE:**  *Determine if the information system performs data origin authentication and data integrity verification on the name/address resolution responses the system receives from authoritative sources when requested by client systems.*  **POTENTIAL ASSESSMENT METHODS AND OBJECTS:**  **Examine**: [*select from:* System and communications protection policy; procedures addressing secure name/address resolution service (recursive or caching resolver); information system design documentation; information system configuration settings and associated documentation; other relevant documents or records].  **Test**: [*select from:* Automated mechanisms implementing data origin authentication and integrity verification for resolution services]. | |
| **Additional Assessment Case Information** | | |
|  | | **POTENTIAL ASSESSMENT SEQUENCING:**  precursor controls: None  concurrent controls: 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. |
| **SC-21.1.1.1** | | **Examine** security plan, information system design documentation, or other relevant documents; [*reviewing*] for the automated mechanisms and their configuration settings to be employed to perform data origin authentication and data integrity verification on the name/address resolution responses the system receives from authoritative sources when requested by client systems. |
| **SC-21.1.1.2** | | **Examine** documentation describing the current configuration settings for anagreed-upon [*basic*] sample of the automated mechanisms identified in SC-21.1.1.1; [*reviewing*] for evidence that these mechanisms are configured as identified in SC-21.1.1.1. |
| **SC-21.1.1.3** | | **Test** an agreed-upon [*basic*]sample of the automated mechanisms and their configuration settings identified in SC-21.1.1.1; 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-21(1)** | SECURE NAME / ADDRESS RESOLUTION SERVICE (RECURSIVE OR CACHING RESOLVER) |
| **SC-21(1).1**  **SC-21(1).1.1** | **ASSESSMENT OBJECTIVE:**  *Determine if the information system performs data origin authentication and data integrity verification on all resolution responses received whether or not client systems explicitly request this service.*  **POTENTIAL ASSESSMENT METHODS AND OBJECTS:**  **Examine**: [*select from:* System and communications protection policy; procedures addressing secure name/address resolution service (recursive or caching resolver); information system design documentation; information system configuration settings and associated documentation; other relevant documents or records].  **Test**: [*select from:* Automated mechanisms implementing data origin authentication and integrity verification for resolution services]. |
| **Additional Assessment Case Information** | |
|  | **POTENTIAL ASSESSMENT SEQUENCING:**  precursor controls: None  concurrent controls: CM-6, SC-20, SC-22  successor controls: None |
| **Action Step** | **Potential Assessor Evidence Gathering Actions** |
| **SC-21(1).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 perform data origin authentication and data integrity verification on all resolution responses received whether or not client systems explicitly request this service. |
| **SC-21(1).1.1.2** | **Examine** documentation describing the current configuration settings for anagreed-upon [*basic*] sample of the automated mechanisms identified in SC-21(1).1.1.1; [*reviewing*] for evidence that these mechanisms are configured as identified in SC-21(1).1.1.1. |
| **SC-21(1).1.1.3** | **Test** an agreed-upon [*basic*]sample of the automated mechanisms and their configuration settings identified in SC-21(1).1.1.1; conducting [*basic*] testing for evidence that these mechanisms are operating as intended. |