



Compliance Component

DEFINITION

<i>Name</i>	Strong Authentication
<i>Description</i>	Strong Authentication is the requirement to use multiple factors to verify the identity of a user accessing networks and/or applications, as opposed to the typical method which requires only one factor of authentication.
<i>Rationale</i>	Strong authentication provides additional assurance that the user is who they say they are and the data they send to you is authentic.
<i>Benefits</i>	<p>Strong authentication counters the weaknesses inherent in typical, one-factor authentication methods because they are:</p> <ul style="list-style-type: none"> • Harder to duplicate, • Cannot be re-generated, • Cannot be easily guessed, • Cannot be re-used, or are • Physically stored independently from the other factor of authentication, thereby deterring simultaneous use by an unauthorized user. <p>Strong authentication increases the feasibility of using single sign-on (SSO).</p>

ASSOCIATED ARCHITECTURE LEVELS

<i>List the Domain Name</i>	Security
<i>List the Discipline Name</i>	Technical Controls
<i>List the Technology Area Name</i>	
<i>List Product Component Name</i>	

COMPLIANCE COMPONENT TYPE

<i>Document the Compliance Component Type</i>	Guideline
<i>Component Sub-type</i>	

COMPLIANCE DETAIL

<i>State the Guideline, Standard or Legislation</i>	<p>The three factors of authentication for users are:</p> <ol style="list-style-type: none"> 1. Something they know, for example: <ul style="list-style-type: none"> • Password • Personal Identification Number (PIN) • Personal Question (such as your favorite color) 2. Something they have, for example: <ul style="list-style-type: none"> • Token • Certificate • Smartcard
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	<ul style="list-style-type: none"> • Magnetic Stripe/Credit/Debit Card • One-time Pad • Proximity Card <p>3. Something they are, for example:</p> <ul style="list-style-type: none"> • Fingerprint • Retinal Scan • Voice Scan • Facial Scan <p>Strong Authentication must use two <u>different</u> factors from the list above. For example, one password they know plus one token they have. It must <u>not</u> use two of the same type of factor, for instance, a password and a personal question.</p> <p>Cookies are not an acceptable authentication factor.</p> <p>Strong Authentication must be implemented when:</p> <ul style="list-style-type: none"> • Users access the private network from public connections, such as the Internet • Applications perform transactions involving CONFIDENTIAL or financial information via the Internet • Administrators remotely manage security devices • Password policies cannot be enforced <p>Strong Authentication should be implemented when:</p> <ul style="list-style-type: none"> • CONFIDENTIAL information is accessed within the internal network • Administrators remotely manage servers and network devices <p>Strong Authentication methods must lock the user account, and require administrator intervention or a waiting period of at least 30 minutes, after a minimum of 5 failed authentication attempts.</p>
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<i>Document Source Reference #</i>	N/A
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Standard Organization

<i>Name</i>		<i>Website</i>	
<i>Contact Information</i>			

Government Body

<i>Name</i>	National Institute of Standards and Technology (NIST), Computer Security Resource Center (CSRC)	<i>Website</i>	http://csrc.nist.gov/
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<i>Contact Information</i>	inquiries@nist.gov
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<i>Name</i>		<i>Website</i>	
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<i>Contact Information</i>			
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KEYWORDS

<i>List all Keywords</i>	Password, One-Time, Token, Certificate, Bio-Metric, Smartcard, advanced authentication, two-factor, Single Sign On, SSO, cookies, transaction, PIN
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COMPONENT CLASSIFICATION

<i>Provide the Classification</i>	<input type="checkbox"/> <i>Emerging</i> <input checked="" type="checkbox"/> <i>Current</i> <input type="checkbox"/> <i>Twilight</i> <input type="checkbox"/> <i>Sunset</i>
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Rationale for Component Classification

Document the Rationale for Component Classification

Conditional Use Restrictions

Document the Conditional Use Restrictions

Migration Strategy

Document the Migration Strategy

Impact Position Statement

Document the Position Statement on Impact

CURRENT STATUS

Provide the Current Status)

In Development *Under Review* *Approved* *Rejected*

AUDIT TRAIL

Creation Date

05/12/05

Date Accepted / Rejected

09-27-2005

Reason for Rejection

Last Date Reviewed

Last Date Updated

Reason for Update