



## COMPLIANCE COMPONENT

DEFINITION	
<i>Name</i>	Encryption for Laptops
<i>Description</i>	Encryption for Laptops is securing laptop hard drives to ensure the confidentiality, integrity and availability of both data and applications.
<i>Rationale</i>	In case of theft, loss or unauthorized use of the laptop, encryption prevents the compromise of the agency data and network.  The specific intent is to compensate for the lack of physical security controls when the laptop is removed from the agency location or control.
<i>Benefits</i>	Encrypted laptops: <ul style="list-style-type: none"> <li>• Prevent compromise of agency information</li> <li>• Safeguard the agency and state network from unauthorized activity</li> <li>• Meets the agency's statutory and fiduciary responsibilities</li> </ul>
ASSOCIATED ARCHITECTURE LEVELS	
<i>Specify the Domain Name</i>	Security
<i>Specify the Discipline Name</i>	Technical Controls
<i>Specify the Technology Area Name</i>	Remote Access Controls
<i>Specify the Product Component Name</i>	
COMPLIANCE COMPONENT TYPE	
<i>Document the Compliance Component Type</i>	Guideline
<i>Component Sub-type</i>	

**COMPLIANCE DETAIL**

<p><i>State the Guideline, Standard or Legislation</i></p>	<p>The encryption methodology must have all of the following features, at a minimum:</p> <ul style="list-style-type: none"> <li>• Operational on a local, single machine without connectivity to the agency's network.</li> <li>• Boot-time authentication that requires the user to authenticate when the computer is started.</li> <li>• Full-disk encryption that requires all drives and data are fully encrypted.</li> <li>• Recovery after authentication failure, which is a challenge-response facility that permits the user, with the assistance of a system administrator, to regain access to a protected machine.             <ul style="list-style-type: none"> <li>◦ Note that the challenge-response process is sensitive and should be handled accordingly.</li> </ul> </li> <li>• Encrypts upon hibernation, requiring the user to re-authenticate when restarting the machine.</li> <li>• User can not turn encryption off.</li> <li>• All data encryption is automatic and transparent to the user.</li> <li>• Encryption overhead is minimal with little or no noticeable impact on system performance.</li> </ul> <p>The following features should be included:</p> <ul style="list-style-type: none"> <li>• Two-factor authentication.</li> <li>• Software deployment tools automatically install and configure for systems based on your security policies.</li> <li>• Ability to encrypt any type of drive attached to the laptop.             <ul style="list-style-type: none"> <li>◦ Ability to access encrypted drive when attached to other devices.</li> </ul> </li> </ul>
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*Document Source Reference #*

**Compliance Sources**

<i>Name</i>	National Institute of Standards and Technology (NIST), Computer Security Resource Center (CSRC) Special Publication 800-111, Guide to Storage Encryption Technologies for End User Devices, November 2007	<i>Website</i>	<a href="http://csrc.nist.gov/">http://csrc.nist.gov/</a>
<i>Contact Information</i>	<a href="mailto:inquiries@nist.gov">inquiries@nist.gov</a>		
<i>Name</i>	Laptop Encryption ITPS - 001	<i>Website</i>	<a href="http://www.oa.mo.gov">www.oa.mo.gov</a>
<i>Contact Information</i>			

**KEYWORDS**

*List Keywords*

Password, authentication, two-factor, biometric, token, full disk.

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>
<i>Sunset Date</i>			
COMPONENT SUB-CLASSIFICATION			
<b>Sub-Classification</b>	<b>Date</b>	<b>Additional Sub-Classification Information</b>	
<input type="checkbox"/> <i>Technology Watch</i>			
<input type="checkbox"/> <i>Variance</i>			
<input type="checkbox"/> <i>Conditional Use</i>			
Rationale for Component Classification			
<i>Document the Rationale for Component Classification</i>			
Migration Strategy			
<i>Document the Migration Strategy</i>			
Impact Position Statement			
<i>Document the Position Statement on Impact</i>			
CURRENT STATUS			
<i>Provide the Current Status</i>	<input type="checkbox"/> <i>In Development</i>	<input type="checkbox"/> <i>Under Review</i>	<input checked="" type="checkbox"/> <i>Approved</i> <input type="checkbox"/> <i>Rejected</i>
AUDIT TRAIL			
<i>Creation Date</i>	11/28/2006	<i>Date Approved / Rejected</i>	09/28/2011
<i>Reason for Rejection</i>			
<i>Last Date Reviewed</i>	01/27/2011	<i>Last Date Updated</i>	01/27/2011
<i>Reason for Update</i>	Vitality		