Policy Title: Security Engineering Principles

Policy Type: Administrative


Approval Date: 05/28/2014 Revised

Responsible Office: Office of Information Technology

Responsible Executive: CIO

Applies to: Office of Information Technology

POLICY STATEMENT

The application of security engineering principles is primarily targeted at new development information systems or systems undergoing major upgrades and is integrated into the system development life cycle.

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>CONTACT(S)</th>
<th>PAGE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contacts</td>
<td>1</td>
</tr>
<tr>
<td>Stakeholder(s)</td>
<td>2</td>
</tr>
<tr>
<td>Purpose</td>
<td>2</td>
</tr>
<tr>
<td>Requirements</td>
<td>2</td>
</tr>
<tr>
<td>Violations</td>
<td>2</td>
</tr>
<tr>
<td>Interpretation</td>
<td>2</td>
</tr>
<tr>
<td>Publication</td>
<td>2</td>
</tr>
<tr>
<td>Review Schedule</td>
<td>3</td>
</tr>
<tr>
<td>Related Documents</td>
<td>3</td>
</tr>
</tbody>
</table>

CONTACT(S)

Office of Information Technology – (757)823-2869
STAKEHOLDER(S)

University Faculty & Staff
Office of Information Technology

PURPOSE

This control is intended to establish the policy for security engineering principles employed for use with the University’s information system.

REQUIREMENTS

NSU applies information system security engineering principles in the specification, design, development, implementation, and modification of the information system.

Supplemental Guidance: For legacy information systems, the University applies security engineering principles to system upgrades and modifications to the extent feasible, given the current state of the hardware, software, and firmware within the system. Examples of security engineering principles include, for example: (i) developing layered protections; (ii) establishing sound security policy, architecture, and controls as the foundation for design; (iii) incorporating security into the system development life cycle; (iv) delineating physical and logical security boundaries; (v) ensuring system developers and integrators are trained on how to develop secure software; (vi) tailoring security controls to meet organizational and operational needs; and (vii) reducing risk to acceptable levels, thus enabling informed risk management decisions.

VIOLATIONS

Violations of this policy will be addressed in accordance relevant University and Commonwealth of Virginia policies, including University Policy 32-01 and Department of Human Resources Management Policy 1.75. The appropriate level of disciplinary action will be determined on an individual case basis by the appropriate executive or designee, with sanctions up to or including termination or expulsion depending upon the severity of the offense.

INTERPRETATION

The Information Security Officer is responsible for official interpretation of this policy. Questions regarding the application of this policy should be directed to the Office of Information Technology. The Information Security Officer reserves the right to revise or eliminate this policy.

PUBLICATION

This policy shall be widely published and distributed to the University community. To ensure timely publication and distribution thereof, the Responsible Office will make every effort to:
1. Communicate the policy in writing, electronic or otherwise, to the University community within 14 days of approval;

2. Submit the policy for inclusion in the online Policy Library within 14 days of approval;

3. Post the policy on the appropriate SharePoint Site and/or Website; and

4. Educate and train all stakeholders and appropriate audiences on the policy’s content, as necessary. Failure to meet the publication requirements does not invalidate this policy.

REVIEW SCHEDULE

- Next Scheduled Review: 05/28/2015
- Approval by, date: Office of Information Technology and 05/28/2014
- Revision History:
- Supersedes (previous policy): OIT 62.8.1508 Security Engineering Principles

RELATED DOCUMENTS

Virginia Commonwealth State policy SEC501-08 Information Security Standard