

# Patch Management process

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## 1. Purpose

This document provides the processes and guidelines necessary to maintain the integrity of network systems and SNLC data by applying the latest operating system and application security updates/patches in a timely manner, and to establish a baseline methodology and time frame for patching and confirming patch-management compliance.

#### 2. Scope

The processes addressed in this document affect all managed SNLC systems, including desktops, laptops, servers, network devices.

# 3. Patch Management process

#### 3.1 Desktops, Laptops, and Servers

- 1. Download patches from a reliable source; in SNLC, we use desktop central from ManageEngine.
- 2. Test patches to identify adverse effects.
- 3. Input a Change Management Request case and discuss at the weekly change management meetings. Follow the Emergency CMR process for critical security patches that require immediate attention.
- 4. Communicate with stakeholders.
- 5. Deploy patches:
  - Windows Workstations:
    - Monthly patches: Deploy no later than during the second weekly maintenance window of each month.
    - Out-of-band security patches: Deploy as soon as possible; no later than one week following release.
  - UNIX/Linux Workstations:
    - o Deploy as soon as possible; at least once per month.
  - Windows Servers:
    - Monthly patches: Deploy no later than during the third weekly maintenance window of each month.
    - Out-of-band security patches: Deploy as soon as possible; no later than one week following release.
  - UNIX/Linux Servers:
    - At least once per month.
    - Critical security patches that resolve a known vulnerability: Deploy as soon as possible following release and no later than one week following release.

### 3.2 Network Hardware/Devices (FW, Routers, Switches, etc.)

- 1. Download patches as available. Patch notifications originate from vendors (Cisco, Fortinet, Aruba, Unifi, etc.)
- 2. Test (where a test environment is available).
- 3. Adhere to the SNLC Change Management Review (CMR) process for release to production.
- 4. Creating necessary backups based on risk assessment.
- 5. Implement
- 6. Review device configurations to identify known and potential vulnerabilities. Retain documented evidence of the review for a period of at least one year.

#### 3.3 Exceptions

- 1. Systems or applications that cannot be patched to resolve a known vulnerability will have the justification documented by the device/application owner and the necessary compensating control(s) implemented.
  - Justification

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- o No vendor patch available.
- Patch provided by vendor creates instability within the system; instability outweighs the risk.
- Compensating Controls
  - Network segmentation
  - o Access Control Lists
  - o Intrusion Prevention Systems
- 2. Systems that transmit or store protected data and cannot be patched to resolve a known vulnerability will be brought to the attention of the data owner and to the SNLC information security manager, and the necessary compensating control(s) will be implemented.

### 3.4 Patch-Compliance Review Procedure

- 1. Desktop and server administrators will generate and review patch management/compliance reports at least monthly from the SNLC patch servers.
- 2. In reviewing the patch reports, desktop and server administrators will identify un-patched machines that connect to the SNLC network and either patch or define an exception.
- 3. The Information Security department will conduct vulnerability scans of known critical systems at least annually. Critical systems with un-patched vulnerabilities will be brought to the attention of the system/application administrator(s) for mitigation.

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