The Use of Loaned or Warehoused Devices during the COVID-19 Response Could Pose Security Risk [ECRI Exclusive Hazard Report]

Medical Device Hazard Report

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Geographic Regions: Worldwide
Suggested Distribution: Clinical/Biomedical Engineering, Risk Management/Continuous Quality Improvement, Information Technology

Problem:
1. Loaned or warehoused devices could have out-of-date firmware and may contain cybersecurity vulnerabilities.
2. Devices from unverified sources may be infected with malware from previous use.
3. The introduction of out-of-date or infected devices to hospital networks could cause the following:
   1. Alteration of data or system function within the networked environment.
   2. Loss of availability to devices or systems within the network environment, leading to delay in care.

ECRI Recommendations:
1. Conduct an acceptance inspection for any loaned device in accordance with facility policy.
2. When onboarding loaned equipment for the COVID-19 surge, treat devices as untrusted:
   1. Do not connect loaned devices to networks, unless it is required for them to function.
   2. If networked connection is required:
      1. Isolate these devices and allow only traffic as needed.
      2. Monitor the network traffic of the devices for anomalies.
   3. Follow established onboarding procedures.

Background:
1. While responding to COVID-19-related surges, facilities may source devices from alternative sources, which include:
   1. Government entities
   2. Outside facilities (loaned)
   3. Warehoused retired equipment
2. Devices from these sources may have out-of-date firmware or contain malware.

Comments:
- This alert is a living document and may be updated when ECRI receives additional information.

Source(s):
- 2020 May 21. ECRI researched report