

SSA-832636: SMBv1 Vulnerabilities in Magnetic Resonance Products from Siemens Healthineers

Publication Date 2017-05-16
Last Update 2017-05-26
Current Version V1.1
CVSS v3.0 Base Score 9.8

SUMMARY

Select Magnetic Resonance Products from Siemens Healthineers are affected by the Microsoft Windows SMBv1 vulnerabilities. The exploitability of the vulnerabilities depends on the actual configuration and deployment environment of each product.

Siemens provides updates for the affected products and recommends specific countermeasures until patches can be applied.

AFFECTED PRODUCTS

- MAGNETOM® MRI Systems: All versions without SecurityUpdate_SU28_F2 (SU28)

DESCRIPTION

Siemens Healthineers MAGNETOM MRI Systems are used in hospital environments for imaging.

Detailed information about the vulnerabilities is provided below.

VULNERABILITY CLASSIFICATION

The vulnerability classification has been performed by using the CVSS scoring system in version 3.0 (CVSS v3.0) (<http://www.first.org/cvss/>). The CVSS environmental score is specific to the customer's environment and will impact the overall CVSS score. The environmental score should therefore be individually assessed by the customer to accomplish final scoring.

Vulnerability 1 (CVE-2017-0143)

An unauthenticated remote attacker could execute arbitrary code via specially crafted requests sent to the SMBv1 server of affected Microsoft Windows systems.

CVSS Base Score 9.8

CVSS Vector CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H/E:H/RL:O/RC:C

Vulnerability 2 (CVE-2017-0144)

An unauthenticated remote attacker could execute arbitrary code via specially crafted requests sent to the SMBv1 server of affected Microsoft Windows systems.

CVSS Base Score 9.8

CVSS Vector CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H/E:H/RL:O/RC:C

Vulnerability 3 (CVE-2017-0145)

An unauthenticated remote attacker could execute arbitrary code via specially crafted requests sent to the SMBv1 server of affected Microsoft Windows systems.

CVSS Base Score 9.8

CVSS Vector CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H/E:H/RL:O/RC:C

Vulnerability 4 (CVE-2017-0146)

An unauthenticated remote attacker could execute arbitrary code via specially crafted requests sent to the SMBv1 server of affected Microsoft Windows systems.

CVSS Base Score 9.8

CVSS Vector CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H/E:H/RL:O/RC:C

Vulnerability 5 (CVE-2017-0147)

An authenticated remote attacker could potentially disclose information from the server by sending specially crafted packets to the SMBv1 server of affected Microsoft Windows systems.

CVSS Base Score 5.3

CVSS Vector CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N/E:H/RL:O/RC:C

Vulnerability 6 (CVE-2017-0148)

An unauthenticated remote attacker could execute arbitrary code via specially crafted requests sent to the SMBv1 server of affected Microsoft Windows systems.

CVSS Base Score 9.8

CVSS Vector CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H/E:H/RL:O/RC:C

SOLUTION

Siemens Healthineers provides SecurityUpdate_SU28_F2 (SU28) for the following versions, which fixes the vulnerabilities. The update is available for the following software versions of the affected devices: VA30A, VA35A, VA40A, VB15A, VB15B, VB17A, VB19A, VC11A, VC12A, VC13A, VC15A, VC15B, VC15C, VC15D, VD11D, VD13A, VD13C, VD13D, VD13E, VD14A, VE11A, VE11B, VE11C, VE11M, VE11N, VE11Q, VE11S.

The update will be automatically available for customers with remote support. If no remote support is available or for questions regarding the update procedure, please contact customer service. The correct installation can be verified in the main *syngo* MR UI under "Help -> Info", ensuring "SecurityUpdate_SU28_F2 (SU28)" is listed under Siemens software packages.

Until patches can be applied by the customer support and for end-of-support products, Siemens Healthineers recommends to isolate affected products that are listening on network ports 139/tcp, 445/tcp or 3389/tcp from any infected system within its respective network segment (e.g. by firewall blocking access to above network ports.)

If the above cannot be implemented we recommend the following:

- If patient safety and treatment is not at risk, disconnect the uninfected product from the network and use in standalone mode.
- Reconnect the product only after the provided patch or remediation is installed on the system.

In addition, Siemens Healthineers recommends:

- Ensure you have appropriate backups and system restoration procedures.
- For specific patch and remediation guidance information contact your local Siemens Healthineers Customer Service Engineer, portal or our Regional Support Center.

ADDITIONAL RESOURCES

[1] Customer Information on WannaCry Malware for Siemens Healthineers Imaging and Diagnostics Products is available here:

https://www.siemens.com/cert/pool/cert/siemens_security_bulletin_ssb-412479.pdf

[2] For further inquiries on vulnerabilities in Siemens products and solutions, please contact the Siemens ProductCERT:

<https://www.siemens.com/cert/advisories>

HISTORY DATA

V1.0 (2017-05-16): Publication Date

V1.1 (2017-05-26): Added update information

DISCLAIMER

See: https://www.siemens.com/terms_of_use