CYBERSECURITY NOTIFICATION

Apache Log4j Vulnerabilities
CVE-2019-17571
CVE-2021-4104
CVE-2021-44228
CVE-2021-45046
CVE-2021-45105

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Summary
Hitachi Energy is aware of the Apache Log4j v2.x vulnerabilities called Log4Shell CVE-2021-44228 and CVE-2021-45046 that are published on 2021-12-10 and 2021-12-13 respectively. Additionally, another vulnerability CVE-2021-45105 applicable to Apache Log4j 2.x is published on 2021-12-16. As published [1], if the vulnerabilities are exploited, an attacker may launch a remote code execution attack to take control of an affected system and for the latter vulnerability, it can cause a denial-of-service if exploited.
Hitachi Energy is also aware of the Apache Log4j 1.x vulnerabilities CVE-2019-17571 and CVE-2021-4104. If the vulnerabilities are exploited, this allows a remote attacker to execute code on the server.

Apache Log4j v2.x Product Related Advisories
We have completed the investigation of our products from our portfolio. To date, the known affected products related to Apache Log4j v2.x vulnerabilities are listed in the list here, and if the product is not listed, it is not vulnerable to the aforementioned vulnerabilities.

- Axis
- Counterparty Settlement & Billing (CSB) version 6
- e-Mesh™ Monitor
- FOXMAN-UN
- Lumada Asset Performance Management
- Lumada Enterprise Asset Management
- Lumada Field Service Management
- MMS product – Internal Facing Subcomponents
- Network Manager Advanced Distributed Management Systems
- Network Manager SCADA/EMS, Ranger and NMR
- nMarket Global I-SEM
- RelCare
- UNEM

Apache Log4j v1.x Product Related Advisories
To date, the known affected products related to Apache Log4j v1.x vulnerabilities are listed in the list here. Hitachi Energy is continuing to evaluate if any of our products and cloud offerings are affected by those vulnerabilities. Should there be an affected product, the link to the respective advisory will be made available in the list and on our Cybersecurity Alerts and Notifications page.

- nMarket Global I-SEM
- nMarket
- nMarket Global
General Mitigation Factors

Recommended security practices and firewall configurations can help protect a process control network from attacks that originate from outside the network. Such practices include that process control systems are physically protected from direct access by unauthorized personnel, have no direct connections to the Internet, and are separated from other networks by means of a firewall system that has a minimal number of ports exposed, and others that have to be evaluated case by case. Process control systems should not be used for Internet surfing, instant messaging, or receiving e-mails. Portable computers and removable storage media should be carefully scanned for viruses before they are connected to a control system.

Support

For additional information and support please contact your product provider or Hitachi Energy’s service organization. See https://www.hitachienergy.com/contact-us/ for Hitachi Energy contact-centers.

Publisher

Hitachi Energy PSIRT – cybersecurity@hitachienergy.com

References


Revision

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<thead>
<tr>
<th>Date of the Revision</th>
<th>Revision</th>
<th>Description</th>
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<tr>
<td>2021-12-13</td>
<td>A</td>
<td>Initial public release.</td>
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<tr>
<td>2021-12-15</td>
<td>B</td>
<td>Added product FOXMAN-UN and UNEM</td>
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<td>2021-12-16</td>
<td>C</td>
<td>Added product NM-ADMS, CSB, Lumada EAM, Lumada FSM</td>
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<td>2021-12-17</td>
<td>D</td>
<td>Added Axis, NM-SCADA/EMS, nMarket Global I-SEM, Lumada APM, MMS Internal Facing Subcomponent</td>
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<td>2021-12-20</td>
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<td>Added RelCare product</td>
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<td>Update Summary section and add Other Apache Log4j Vulnerabilities Section</td>
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<tr>
<td>2021-12-22</td>
<td>F</td>
<td>Added e-Mesh™ Monitor product</td>
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<td>Added Ranger and NMR as part of Network Manager SCADA/EMS product family</td>
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<td>2021-12-23</td>
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<td>Restructure the Cybersecurity Notification</td>
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<td>Added affected products related to Apache Log4j v1.x vulnerabilities</td>
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