ICS-CERT ALERT

ICS-ALERT-12-214-01—SPECVIEW DIRECTORY TRAVERSAL

August 01, 2012

ALERT

SUMMARY

ICS-CERT is aware of a public report of a directory traversal vulnerability with proof-of-concept (PoC) exploit code affecting SpecView, a supervisory control and data acquisition/human-machine interface (SCADA/HMI) product. According to this report, a directory traversal vulnerability could occur when a specially crafted request is passed to the web server running on Port 80\TCP. Successful exploitation could result in data leakage. This report was released by Luigi Auriemma without coordination with either the vendor or ICS-CERT.

ICS-CERT has discussed the report with the affected vendor and has asked the vendor to confirm the vulnerability and identify mitigations. ICS-CERT is issuing this alert to provide early notice of the report and identify baseline mitigations for reducing risks to these and other cybersecurity attacks.

The report included vulnerability details and PoC exploit code for the following vulnerability:

Vulnerability Type	Remotely Exploitable	Impact
Directory Traversal	Yes	Data Leakage

Please report any issues affecting control systems in critical infrastructure environments to ICS-CERT.

MITIGATION

ICS-CERT is currently coordinating with the vendor to identify mitigations. ICS-CERT recommends that users take defensive measures to minimize the risk of exploitation of these vulnerabilities.

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Specifically, users should:

- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.[a]
- Locate control system networks and devices behind firewalls, and isolate them from the business network.
- If remote access is required, employ secure methods, such as Virtual Private Networks (VPNs), recognizing that VPN is only as secure as the connected devices.

ICS-CERT reminds organizations to perform proper impact analysis and risk assessment prior to taking defensive measures.

The Control Systems Security Program (CSSP) also provides a recommended practices section for control systems on the US-CERT Web site. Several recommended practices are available for reading or download, including Improving Industrial Control Systems Cybersecurity with Defense-in-Depth Strategies.[b]

Organizations that observe any suspected malicious activity should follow their established internal procedures and report their findings to ICS-CERT for tracking and correlation against other incidents.

ICS-CERT CONTACT

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ICS-CERT continuously strives to improve its products and services. You can help by answering a very short series of questions about this product at the following URL: https://forms.us-cert.gov/ncsd-feedback/.

DOCUMENT FAQ

What is an ICS-CERT Alert? An ICS-CERT Alert is intended to provide timely notification to critical infrastructure owners and operators concerning threats or activity with the potential to impact critical infrastructure computing networks.

a. ICS-CERT ALERT, http://www.us-cert.gov/control_systems/pdf/ICS-Alert-10-301-01.pdf, Web site last accessed August 01, 2012.

b. Control System Security Program (CSSP) Recommended Practices, http://www.us-cert.gov/control_systems/practices/Recommended_Practices.html, Web site last accessed August 01, 2012.

When is vulnerability attribution provided to researchers? Attribution for vulnerability discovery is always provided to the vulnerability reporter unless the reporter notifies ICS-CERT that they wish to remain anonymous. ICS-CERT encourages researchers to coordinate vulnerability details before public release. The public release of vulnerability details prior to the development of proper mitigations may put industrial control systems and the public at avoidable risk.