



ICS-CERT

INDUSTRIAL CONTROL SYSTEMS CYBER EMERGENCY RESPONSE TEAM

ICS-CERT ALERT

ICS-ALERT-11-283-02—ATWISE WEBMI MULTIPLE VULNERABILITIES

October 10, 2011

ALERT

SUMMARY

ICS-CERT is aware of a public report of four vulnerabilities with proof-of-concept (POC) exploit code affecting atwise webMI, a web-based SCADA/HMI product. According to this report, these vulnerabilities are remotely exploitable through the webserver Port 80/TCP. This report was released without coordination with either the vendor or ICS-CERT.

ICS-CERT has not yet verified the vulnerabilities or POC code, but has reached out to the affected vendor to notify, confirm, 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 includes vulnerability details and POC exploit code for the following vulnerability:

Vulnerability Type	Exploitability	Impact
Directory Traversal	Remote	Data leakage
NULL pointer	Remote	Denial of service
Termination of the software	Remote	Denial of service
Resource consumption	Remote	Denial of service

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

BACKGROUND

atwise webMI is web-based SCADA management software used in many industries including building automation, traffic control, and manufacturing.

MITIGATION

ICS-CERT is currently coordinating with the vendor and security researcher to identify useful mitigations.

ICS-CERT recommends that users take defensive measures to minimize the risk of exploitation of these vulnerabilities. Specifically, users should:



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- 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 website. 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

ICS-CERT Operations Center

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For CSSP Information and Incident Reporting: www.ics-cert.org

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.

When is vulnerability attribution provided to researchers? Attribution for vulnerability discovery is provided when prior coordination has occurred with either the vendor, ICS-CERT, or other coordinating entity. 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 (ICSs) and the public at avoidable risk.

a. ICS-CERT ALERT, http://www.us-cert.gov/control_systems/pdf/ICS-Alert-10-301-01.pdf, website last accessed **October 10, 2011**.

b. Control System Security Program (CSSP) Recommended Practices, http://www.us-cert.gov/control_systems/practices/Recommended_Practices.html, website last accessed **October 10, 2011**.