



# ICS-CERT ALERT

ICS-ALERT-11-332-03—OPTIMA APIFTP SERVER VULNERABILITIES

November 28, 2011

## ALERT

### SUMMARY

ICS-CERT is aware of a public report of denial-of-service vulnerabilities with proof-of-concept (PoC) exploit code affecting Optima APIFTP Server, part of a suite of supervisory control and data acquisition/human-machine interface products. According to this report, these vulnerabilities are exploitable by sending specially crafted packets to the server on Port 10260/UDP. This report was released Luigi Auriemma without coordination with ICS-CERT, the vendor, or other coordinating entity that ICS-CERT is aware of.

ICS-CERT has coordinated the report with Optima, which is working to confirm the report 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 details and PoC exploit code for the following vulnerabilities:

Vulnerability Type	Exploitability	Impact
<b>Null pointer</b>	Remote	Denial of Service / Possible Remote Code Execution
<b>Endless loop</b>	Remote	Denial of Service / Possible Remote Code Execution

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

### MITIGATION

ICS-CERT is currently coordinating with Optima to identify useful mitigations.

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

- Configure firewall rules appropriately for traffic on Port 10260/UDP.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.<sup>a</sup>

a. ICS-CERT Alert, [http://www.us-cert.gov/control\\_systems/pdf/ICS-Alert-10-301-01.pdf](http://www.us-cert.gov/control_systems/pdf/ICS-Alert-10-301-01.pdf), website last accessed November 28, 2011.



## ICS-CERT

### INDUSTRIAL CONTROL SYSTEMS CYBER EMERGENCY RESPONSE TEAM

- 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*.<sup>b</sup>

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

1-877-776-7585

[ics-cert@dhs.gov](mailto:ics-cert@dhs.gov)

For CSSP Information and Incident Reporting: [www.ics-cert.org](http://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 always provided to the vulnerability reporter unless the reporter declines attribution. 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.

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b. Control System Security Program (CSSP) Recommended Practices, [http://www.us-cert.gov/control\\_systems/practices/Recommended\\_Practices.html](http://www.us-cert.gov/control_systems/practices/Recommended_Practices.html), website last accessed November 28, 2011.