Industry Advisory
CIP: Rockwell Automation ControlLogix 1756-ENBT/A WebServer Vulnerabilities

Initial Distribution: February 13 2009

These vulnerabilities were publicly announced via US-CERT on February 5, 2009. No known exploits currently exist.

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Status: Information Only: No Reporting Required

Public: No Restrictions.
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Distribution: Initial Distribution: Primary Compliance Contacts
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Primary Interest Groups: SCADA, EMS, Operations, Planning, IT Security, Users of Rockwell Automation ControlLogix 1756-ENBT/A webserver functionality.

Advisory: The following vulnerabilities have been identified in the Rockwell Automation ControlLogix 1756-ENBT/A EtherNet/IP Bridge and its embedded GoAhead WebServer:
- Rockwell Automation ControlLogix 1756-ENBT/A EtherNet/IP Bridge URL redirection vulnerability
- Rockwell Automation ControlLogix 1756-ENBT/A EtherNet/IP Bridge cross-site scripting vulnerability
- The embedded GoAhead WebServer of the 1756-ENBT/A contains an information disclosure vulnerability; an attacker could potentially bypass authentication and view system configuration files or passwords

ControlLogix 1756-ENBT/A mitigations:
Users of ControlLogix 1756-ENBT/A are advised to immediately employ layered security and defense-in-depth methods in the design of the network architecture. Refer to Rockwell Automation’s Reference Architectures for Manufacturing located at [http://www.ab.com/networks/architectures.html](http://www.ab.com/networks/architectures.html) for more information about establishing robust and secure network configurations.

These potential security vulnerabilities will be addressed in a future release of the firmware for the 1756-ENBT/A, currently scheduled for July, 2009.

GoAhead Web server mitigations:
Users of the GoAhead WebServer are advised to strictly limit remote...
access for this device to critical users. This may be done via firewall rules and router access control lists.

The ES-ISAC estimates that the risk to bulk power system reliability from this vulnerability is LOW; however technical risk to an individual facility possessing the vulnerability is MEDIUM. There is no evidence of exploitation code being released into the public.

### Background:

**Actions that can be taken by an attacker are:**

1. **ControlLogix 1756-ENBT/A**
   - An attacker can potentially redirect a user's browser to another website and execute arbitrary JavaScript in an operator's browser.
   - This script can be used to spoof data or redirect an operator's web browser to other sites.

2. **GoAhead WebServer**
   - An attacker can potentially view any file on the web server including files that contain usernames and passwords.

### References:

- Rockwell Automation ControlLogix 1756-ENBT/A EtherNet/IP Bridge cross-site scripting vulnerability [VU#882619](http://www.kb.cert.org/vuls/id/882619)
- Rockwell Automation ControlLogix 1756-ENBT/A EtherNet/IP Bridge URL redirection vulnerability [VU#619499](http://www.kb.cert.org/vuls/id/619499)
- GoAhead Webserver information disclosure vulnerability [VU#124059](http://www.kb.cert.org/vuls/id/124059)

### Contact:

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**To report any incidents related to this alert,**
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