Allen Bradley Micrologix 1100 – Known vulnerabilities

Overview

The Allen-Bradley MicroLogix 1100 is a programmable logic controller (PLC) produced by Rockwell Automation. The following will list the known vulnerabilities of the device. The impact of such vulnerabilities range from being able to reset the device all the way to gaining access and performing unintended functions.

Known Vulnerabilities

- Cleartext transmission of sensitive information User credentials are sent to web server in clear text which could be intercepted / viewed, resulting in unwanted gaining administrative privilege (such as forcing device into state requiring factory reset) [1]
- 2. Stack-Based Buffer Overflow This vulnerability performed by a user to pass data that can overflow a buffer and provide an attacker to execute arbitrary code. [2]
- 3. Improper restriction of operations within the bounds of a memory buffer A specific web request may allow attacker to crash device [3]
- 4. Unrestricted upload of file with dangerous type Remote attacker could redirect web page and upload file of dangerous type [4]
- 5. Cross-site scripting An attacker could inject malicious JavaScript into web server which would then be executed on client side resulting in possible malicious activity [5]
- SQL- Injection Specific malicious input could result in deleting users, adding users, escalating privileges, etc. [6]

Sources

- 1. https://ics-cert.us-cert.gov/advisories/ICSA-16-026-02
- 2. https://ics-cert.us-cert.gov/advisories/ICSA-16-026-02
- 3. https://ics-cert.us-cert.gov/advisories/ICSA-15-300-03A#footnoted t9pkmyy
- 4. https://ics-cert.us-cert.gov/advisories/ICSA-15-300-03A#footnoteg luft4h0
- 5. https://ics-cert.us-cert.gov/advisories/ICSA-15-300-03A#footnotel_lkiagtj
- 6. https://ics-cert.us-cert.gov/advisories/ICSA-15-300-03A#footnotem_bk3i1a9

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