

Teltonika Gateway TRB245 Stored Cross-site Scripting

Low

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Synopsis

A stored cross-site scripting vulnerability exists in the Web UI. A remote, authenticated attacker is able to inject malicious client-side code into the 'URL/ Host / Connection' form in the 'DATA TO SERVER' configuration section. An attacker with low privileges could exploit this to steal session details from a higher privileged user.

Proof of Concept

In the below screenshot we can see the tester has added some script tags into the 'URL/ Host / Connection' form.

"<script>alert('1337 hacks')</script>"

ADVANCED SENDER SETTINGS

Enabled ☐ off on

Name

Protocol

JSON format

Modbus slave ID - %i
Modbus slave IP - %p
Date (Linux timestamp) - %t
Date (Day/Month/Year Hour:Minute:Second) - %d
Start register - %s
Register data - %a

Segment count

URL / Host / Connection string

Period

Data filtering

Retry on fail ☐ off on

Custom Header

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When the tester selects 'Save & Apply' this change you will be redirected to the list of data sensors and the injected javascript will execute.

TELTONIKA FW VER: TRB2_R_00.02.02 USER: ADMIN LOGOUT

DATA SENSORS

NAME	PROTOCOL	URL / HOST / CONNECTION STRING	DEVICE	PERIOD	ENABLED
N/A	HTTPS				

1337 hacks

OK

Solution

Upgrade to TRB2_R_00.02.03 or newer.

Additional References

https://wiki.teltonika-networks.com/view/TRB245_Firmware_Downloads#TRB2XX_R_00.02.03.1...7C_2020.05.15

Disclosure Timeline



07/09/2020 - Teltonika thanks us for the report. They will investigate and follow up with us. They do ask us for a PoC as well.
07/09/2020 - Teltonika responds with their initial assessment.
07/09/2020 - Tenable thanks Teltonika for the update. Sends PoC over.
07/10/2020 - Teltonika cannot reproduce XSS on the newest firmware TRB2_R.00.02.04.
07/10/2020 - Tenable asks if XSS was confirmed to exist in TRB2_R.00.02.02 firmware.
07/14/2020 - Teltonika can reproduce the vulnerability in TRB2_R.00.02.02 firmware.
07/14/2020 - Since the vulnerability was confirmed in a previous version, Tenable will plan to assign a CVE and release an advisory. Asks if a CVE has already been assigned and which version corrected the issue.
07/16/2020 - Teltonika says they did not assign a CVE. Fix version is TRB2_R.00.02.03.
07/16/2020 - We will publish the XSS as CVE-2020-5769 and send a link to the advisory after it is published.

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If you have questions or corrections about this advisory, please email advisories@tenable.com

Risk Information

CVE ID: [CVE-2020-5769](#)

Tenable Advisory ID: TRA-2020-43

Credit: Derrie Sutton

CVSSv2 Base / Temporal Score: 3.6

CVSSv2 Vector: AV:N/AC:H/Au:S/C:P/I:P/A:N

Affected Products: TRB2_R.00.02.02 firmware

Risk Factor: Low

Advisory Timeline

07/16/2020 - Advisory published.

07/29/2020 - Revised disclosure timeline per discussion with Teltonika.

FEATURED PRODUCTS

Tenable One Exposure Management Platform

Tenable.cs Cloud Security

Tenable.io Vulnerability Management

Tenable.io Web App Scanning

Tenable.asm External Attack Surface

Tenable.ad Active Directory

Tenable.ot Operational Technology

Tenable.sc Security Center

Tenable Lumin

Nessus

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