



[Home](#) > [Submit](#) > 788298

Submit #788298: D-Link DIR-645 1.01-1.03 Stack-based Buffer Overflow

Title	D-Link DIR-645 1.01-1.03 Stack-based Buffer Overflow
Description	<p>The D-Link DIR-600 is a wireless router designed for home and small office environments, and it is still deployed in some actual network scenarios.</p> <p>In early firmware versions of the D-Link DIR-645 router (such as v1.01-v1.03), the core function <code>hedwigcgi_main</code> of <code>?cgi-bin/hedwig.cgi</code> has a stack-based buffer overflow vulnerability.</p> <p>When processing HTTP requests, the program retrieves the user session identifier (Session UID), which can be indirectly controlled by client requests. Then, it uses <code>sprintf</code> to concatenate it into a fixed-size stack buffer without performing length checks.</p> <p>If an attacker constructs overly long input, it can cause a stack buffer overflow, overwriting registers and the return address (<code>\$ra</code>) on the stack, thereby hijacking the program's execution flow. By carefully crafting the data, an attacker can achieve remote code execution (RCE) and ultimately gain full control of the device.</p>
Source	https://github.com/Pers1st0/CVE/blob/main/stack-based%20buffer%20overflow%20vulnerability%20exists%20in%20the%20hedwig.cgi%20of%20D-Link%20DIR-645.md
User	 Pers1st0 (UID 96793)
Submission	03/25/2026 01:01 PM (14 days ago)
Moderation	04/08/2026 05:30 PM (14 days later)
Status	Accepted
VulDB entry	VulDB Entry [D-Link DIR-645 1.01/1.02/1.03/cgi-bin/hedwig.cgi hedwigcgi_main stack-based overflow]
Points	20

Community Content

Submissions are made by [VulDB community users](#). VulDB is *not responsible* for their content nor the links to external sources.

Please use the raw information shown and the links listed *with caution*. They might contain malicious and harmful actions, code or data.

The corresponding VulDB entries contain the moderated, verified, and normalized information provided within the raw submission.

Documentation

- [Submission Policy](#)
- [Data Processing](#)
- [CVE Handling](#)