



## DIR-890L Firmware Patch Notes

**Firmware: FW1.21B02 BETA**

**Hardware: Ax**

**Date: April 6, 2018**

### **Note:**

On Oct. 2, 2017, the Google security team disclosed security flaws in the DNSmasq Linux software package that may lead to remote code execution (RCE) and information leaks.

### **Problems Resolved:**

**CVE-2017-14491** – Remote code execution in the DNS subsystem that can be exploited from the other side of the internet against public-facing systems and against stuff on the local network. The previously latest version had a two-byte overflow bug, which could be leveraged, and all prior builds had an unlimited overflow.

**CVE-2017-14492** – The second remote code execution flaw works via a heap-based overflow.

**CVE-2017-14493** – Google labels this one as trivial to exploit. It's a stack-based buffer overflow vulnerability that enables remote code execution if it's used in conjunction with the flaw below.

**CVE-2017-14494** – This is an information leak in DHCP which, when using in conjunction with CVE-2017-14493, lets an attacker bypass the security mechanism ASLR and attempt to run code on a target system.

**CVE-2017-14495** – A limited flaw this one, but can be exploited to launch a denial of service attack by exhausting memory. Dnsmasq is only vulnerable, however, if the command line switches --add-mac, --add-cpe-id or --add-subnet are used.

**CVE-2017-14496** – Here the DNS code performs invalid boundary checks, allowing a system to be crashed using an integer underflow leading to a huge memcpy() call. Android systems are affected if the attacker is local or tethered directly to the device.

**CVE-2017-13704** – A large DNS query can crash the software.

**Enhancements:**

None

**Known Issues:**

None

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