



Pakistan Telecom Authority Headquarters, Islamabad

PTA Cyber Security Advisory No: 143

22-09-2021

**Name:** Vulnerability in Several Netgear Router Models

**Threat Classification:** Remote code execution

**Affected Products/ Models:**

- R6400v2
- R6700
- R6700v3
- R6900
- R6900P
- R7000
- R7000P
- R7850
- R7900
- R8000
- RS400

**Summary:**

Vulnerability is found which exists in **Circle**, a third-party component included in the firmware that offers **parental control features**. With the Circle update daemon enabled to run by default even if the router hasn't been configured to limit daily internet time for websites and applications. This results in a scenario that can permit bad actors with network access to gain remote code execution (RCE) as root via a **Man in the Middle attack (MitM)** which gives the attacker the ability to overwrite executable binaries with malicious code.

<b>Severity</b>	<b>High</b>
<b>Attack Vector</b>	Network
<b>Privileges required</b>	None

For further details, please visit following link:

<https://kb.netgear.com/000064039/Security-Advisory-for-Remote-Code-Execution-on-Some-Routers-PSV-2021-0204>

### **Recommendations:**

- Please visit the website link for remediation for the aforementioned vulnerabilities:  
<https://kb.netgear.com/000064039/Security-Advisory-for-Remote-Code-Execution-on-Some-Routers-PSV-2021-0204>
- **NETGEAR** strongly recommends that you download the latest firmware as soon as possible.
- If your product is supported by one of our apps, using the app is the easiest way to update your firmware:
  - Orbi products: NETGEAR Orbi app.
  - NETGEAR WiFi routers: NETGEAR Nighthawk app.
  - Some NETGEAR Business products: NETGEAR Insight app (firmware updates through the app are available only for Insight subscribers).
- Use licensed antivirus and regularly obtain its latest updates with its real-time scanning capabilities enabled.
- Only use licensed software and avoid download/use of cracked and pirated software.
- Designate a PoC from your security / Network team (if yet not designated), for seeking assistance and reporting security issues.
- In case of any incident, please report to this office.