**5. Why was WPA2 introduced?**

* WPA2 was introduced to solve the major security flaws in WEP and the temporary fixes of WPA.
* It added strong encryption using AES, which is very hard to crack compared to old methods.
* It improved integrity checking, so data could not be easily changed or tampered with.
* WPA2 provided better protection for both personal and enterprise wireless networks.
* It made key management stronger, reducing the risk of hackers stealing the network key.
* Because Wi-Fi was becoming more common everywhere, a stronger, long-term security standard was needed, that's why WPA2 became the official standard.