# What are the vital aspects of the wave 2 router?

This can be regarded as a very popular question among a lot of internet users now-a-days. Most of us might have a clear idea regarding these terms. It has gained immense popularity these days. But at the same time, there might be some people out there, who have not heard about these terms yet. Hence, this discussion can be regarded as extremely important for all such people. Here, we will be discussing the vital aspects of the **wave 2 router**. The Wi-Fi Alliance, which is a global association of companies that look at the interoperability of Wi-Fi technology, recently certified the 802.11ac Wave 2 standard. This new standard brings a number of essential updates that could gradually affect the daily connectivity of consumers and businesses all over the world. So, without further delay, let's take a look at this standard.

## The wave 2 router opens up gigabit Wi-Fi possibilities

As we all know, with the availability of products like Google Fiber, AT&T GigaPower, and Verizon Fios, the concept of gigabit internet is gaining immense popularity these days. But unfortunately, it is mostly constrained to a hardline connection. By using the Wave 1 standard, gigabit speeds have been achieved only in lab settings. But this has not been possible in the real world. Now, this router is very efficient and it can open the door for gigabit Wi-Fi. It has been observed that the PHY or physical rate, which affects the throughput rate of data transfer, is much higher in the case of Wave 2. The wave 1 maximum PHY rate was about 1.3 Gbps. But on the other hand, the Wave 2 maximum PHY rate is about 2.34 Gbps.

## Supports more connected devices

This can be regarded as a very important feature of the **wave 2 router.** It offers greater density than Wave 1 since it has the ability to support multi user multiple input, multiple output (MU-MIMO). By this, we mean that the spectrum can be used more efficiently for multiple connected devices. Thus, the devices can easily get on and off of the network without any problem. This ability of the access point to communicate simultaneously with multiple mobile devices in a single coverage area, at a time can be regarded as very efficient. It will be able to easily talk to up to four, single stream devices at one time going downstream. This feature can be regarded as very useful for all the customers. This is because of the fact that most of us tend to have multiple connected devices in our home.

## Offers stronger performance

As we have already stated, this router has a strong PHY rate. In addition to that, it also has the option for 160 MHz channel width. In the case of Wave 1, the only options were 20, 40, and 80 MHz. Thus, this can be regarded as one of the most important aspects of this router. This feature will make it easier to access and transfer large files. It also adds a fourth spatial stream, up from the three streams offered in Wave 1. The device speeds are proportional to the number of spatial streams and hence, more streams means better overall performance.

## Conclusion

Thus, from our discussion of the topic, it can be concluded that the **wave 2 router** is indeed very beneficial and it has a number of amazing features as well. It greatly enhances the customer experience. Here, we have discussed some of the vital aspects of this router. Thus, this discussion can be regarded as extremely beneficial for all those who are hearing these terms for the first time.