

Q1. In which OSL layer the Wi-Fi standard/protocol fits.

The Wi-Fi standard (IEEE 802.11) operates at the Data Link Layer in the MAC sublayer, and the Physical Layer.

Physical Layer:

- It defines the actual wireless transmission, including frequency bands, modulation techniques, and signal encoding.
- It defines which frequency band to use such as 2.4 GHz , 5GHz.
- It is responsible for converting digital signals to Wifi signals.

Data Link Layer:

- This layer is used to identify the MAC address of the device we are trying to connect.
- Wifi operates in the MAC sublayer that consists of frame control, Error detection and correction.