
DAVID McDONALD, University of Ottawa

How does the Wi-Fi protocol work?

The Wi-Fi protocol allows a varying and unknown number of users to access a base station without any centralized coordination. We will discuss the exponential back-off algorithm which makes this possible. We will also consider a mean field approximation to a system with N users which allows us to predict the performance of this system. We'll finish with a list of drawbacks of this protocol.