

A Securing the User Equipment (UE) high-level digital LTE Networks by Detecting Fake Base Stations

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ABSTRACT

An LTE network assaulter will found out rapscaillon base station simply to form the victim user instrumentality (UE) connect with such base station. The privacy of the UE are going to be compromised. during this paper, we have a tendency to propose a protocol to spot pretend base stations to safeguard user privacy. the fundamental plan is to synchronize to all or any base stations in vary and collect the network IDs. supported the actual fact that legitimate base stations have a similar network ID that's completely different from pretend ones, the UE will connect with the legitimate base station with the strongest power rather than any base station with the strongest power in ancient style. Our planned protocol may be a UE facet resolution and no base station modification is needed. This property makes our protocol are often step by step deployed within the future. whereas most itinerant users settle for that the network operator will track their geographical movements, few would be happy if any discretional third half may do therefore. Such a chance would alter every kind of undesirable behaviors, starting from criminal stalking to business and promotional material functions. Such attacks square measure celebrated to be pretend base station attacks. it's been shown that low cost base stations are often made by programming Universal software system Radio Peripheral (USRPs) boards [1]. The increasing quality of USRPs crystal rectifier for instance to an inexpensive implementation of pretend base station attacks. during this paper, we have a tendency to study the pretend base station attack and an answer for it. The assaulter will use pretend base station to line up reference to UE. during this manner the attack will explore user privacy. to deal with this issue, we have a tendency to use a UE facet resolution that identifies pretend base station in synchronization stage. There square measure many benefits for our resolution.

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