

SolarInnovate Energy Solutions

Myanmar Communications 5g base station detection



Overview

When will 105 MHz spectrum be released in Myanmar?

With a conservative guard band at this time of 105 MHz can be released in Myanmar. This will allow the PTD to offer pioneer 5G mid-band spectrum to operators from 2020; Coverage spectrum (namely the 700 MHz band (n28)) has been timed for 2021 following the likely regional release of this band in a number of ASEAN markets.

How many MHz in IMT spectrum in Myanmar?

1800 MHz, 1800 MHz, and 700 MHz bands and the optimization of the 850/900 MHz band. As at April 2019, Myanmar has released almost 400 MHz in IMT spectrum and already has allocated more IMT spectrum.

How does 5G protect users from false base stations?

The framework complements other mechanisms introduced in 5G to protect users against false base stations, for example encrypted long-term identifiers and fresh short-term identifiers. This blog post outlines the framework and describes some practical experiments we have performed in our lab.

Which GHz band is used for Wi-Fi in Myanmar?

The 5 GHz band is typically used for Wi-Fi connectivity (along with the 2.4 GHz band). As indicated in the first Consultation Paper, Myanmar's allocation for license-exempt usage in the 5 GHz band is only 5.725 to 5.875 GHz, amounting to 150 MHz in total. This is a significantly smaller allocation compared to many other countries – including ASEAN.

Why is band 28 available in Myanmar in 2021?

With the availability of affordable Band 28 smartphones and other devices in Myanmar. In addition, the release of this IMT band in 2021 will allow the MNOs who successfully secure this spectrum to decide whether to deploy 4G and/or 5G services in this band; If there is demand then further capacity band

spectrum (namely the 1500 MHz, 4.8 GHz and further).

Will Myanmar move from 2G to 4G in 2026?

It is post of 2026 Myanmar undertaking its analogue to digital television switchover etc. The PTD considers that it is critical that Myanmar acknowledge that the long term move from 2G/3G services to 4G/5G services require

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A super base station based centralized network architecture for 5G

Apr 1, 2015 · In future 5G mobile communication systems, a number of promising techniques have been proposed to support a three orders of magnitude higher network load compared to what ...

Base Station ON-OFF Switching in 5G Wireless Networks: ...

Jan 22, 2023 · Abstract--To achieve the expected 1000x data rates under the exponential growth of traffic demand, a large number of base stations (BS) or access points (AP) will be deployed ...



SMDFbs: Specification-Based Misbehavior Detection for False Base Stations

Nov 29, 2023 · We derive behavior rules from the normal operations of base stations and convert these rules into a state machine. Based on this state machine, we detect network anomalies ...

5G Native Network Function for False Base Station Detection ...

Jun 5, 2025 · The Fifth-Generation (5G) technology is increasingly recognized as a key enabler for V2X applications, although large-scale commercial deployments remain in the early stages.

...



SMDFbs: Specification-Based Misbehavior Detection for False Base Stations

The remainder of this paper is structured as follows: Section 2 offers insights into the structure of 5G RAN, elucidates security threats emanating from base stations, and elaborates on the ...

Reconnaissance and Information Extraction Experiment on the Multiple 5G

Oct 16, 2021 · The detection and monitoring on multiple 5G base station signals are not only the important guarantee to maintain the normal order of mobile communication, but



Fake Base Station Detection and Localization in 5G Network

...

Jul 12, 2024 · The aim of this study is to mitigate UE attachments against fake base stations through threshold-based detection and localization. The detection results showed low errors in ...



An Ensemble Approach for Fake Base Station Detection ...

Apr 12, 2024 · The Fake Base Station (FBS) attack presents one of the top threats to the today's cellular networks, including the 5G networks, it often pretends to be the legitimate cellular ...



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