OFFICE OF THE NATIONAL BROADCASTING
AND TELECOMMUNICATIONS COMMISSION

Thailand's Preliminary view on L-Band (1427-1518 MHz)

NBTC SPECTRUM MANAGEMENT

Outlines

- L-band status and current usage in Thailand
- NBTC's Priliminary study on L-band
- Preliminary views on L-band

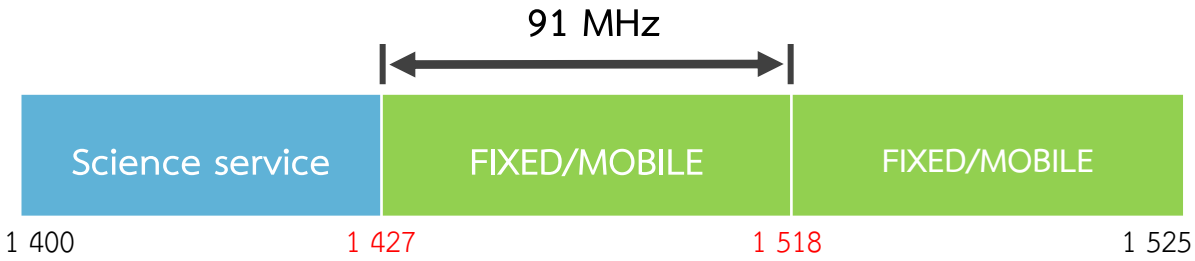
L-band status and current usage in Thailand

L-band

ITU has Identified the frequency band 1427-1518 MHz (L-Band) for IMT service in WRC-15.

Thailand's spectrum master plan has identified the frequency band 1427-1518 MHz as IMT

Currently, there is ongoing study by NBTC regarding possibility and appropriateness of deploying IMT services in L-band



Current usage

Currently, Thailand use the frequency band 1427-1518 MHz for fixed service in some areas of the country.

NBTC's Priliminary study on L-band

- NBTC (on behalf of National telecom regulator) has conducted a focus group meeting
  - To investigate demand and ecosystem in L-band
    - In August 2021
  - Title: "The Possibility and Way Forward for frequency band 1427 – 1518 MHz as IMT Services"
  - Attendees
    - mobile operators -> AWN, TUC, DTN, and NT
    - telecom vendors -> ZTE, Huawei, and Ericsson
  - meeting results
    - Thailand's mobile operator have interests in this frequency band for IMT services
    - However, there still some concerns from mobile operators and telecom vendors regarding readiness of devices and equipement (ecosystem) in this frequency band.

Preliminary views on L-band

- According to the focus group meeting results,
  - NBTC noticed the demand for L-band to be assigned as IMT from mobile operators
    - Technology trend for L-band seems to be IMT (5G)
  - However, duplex mode are still discussed
    - between SDL (Supplementary Downlink) and TDD (Time division duplex).
    - Accoding to vendors' opinions -> FDD (Frequncy division duplex) is unlikely, due to the inefficient use of the spectrum.
- Preliminary views
  - There is high possibility for L-band to be switched from fixed services to IMT services
  - However, followings must be closely monitored in order to determine proper timing to take action
    - developments and readiness of equipement and devices (ecosystem)
    - clarity of proper band plan and duplex mode to be use for IMT service in this frequency band (SDL or TDD)

Thank You

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