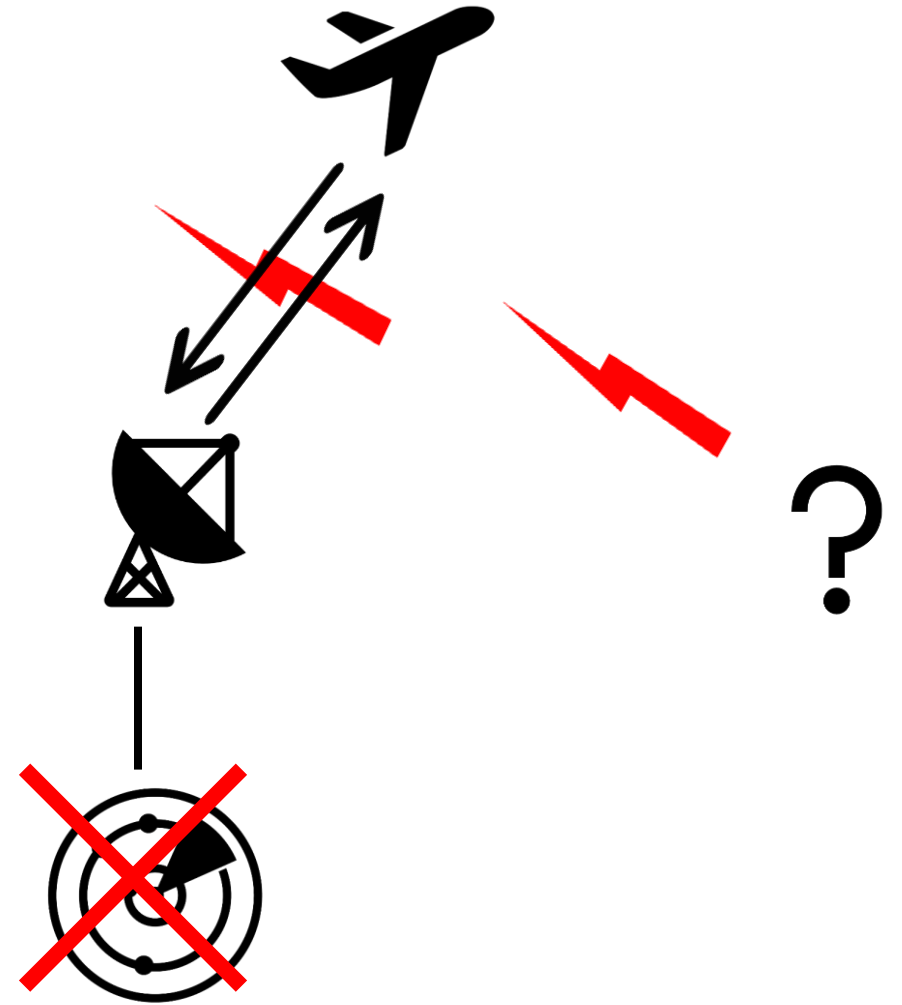


Cases of SSR RF-Interference caused by Video Transmission Equipment in Unmanned Aerial Vehicle(UAV)

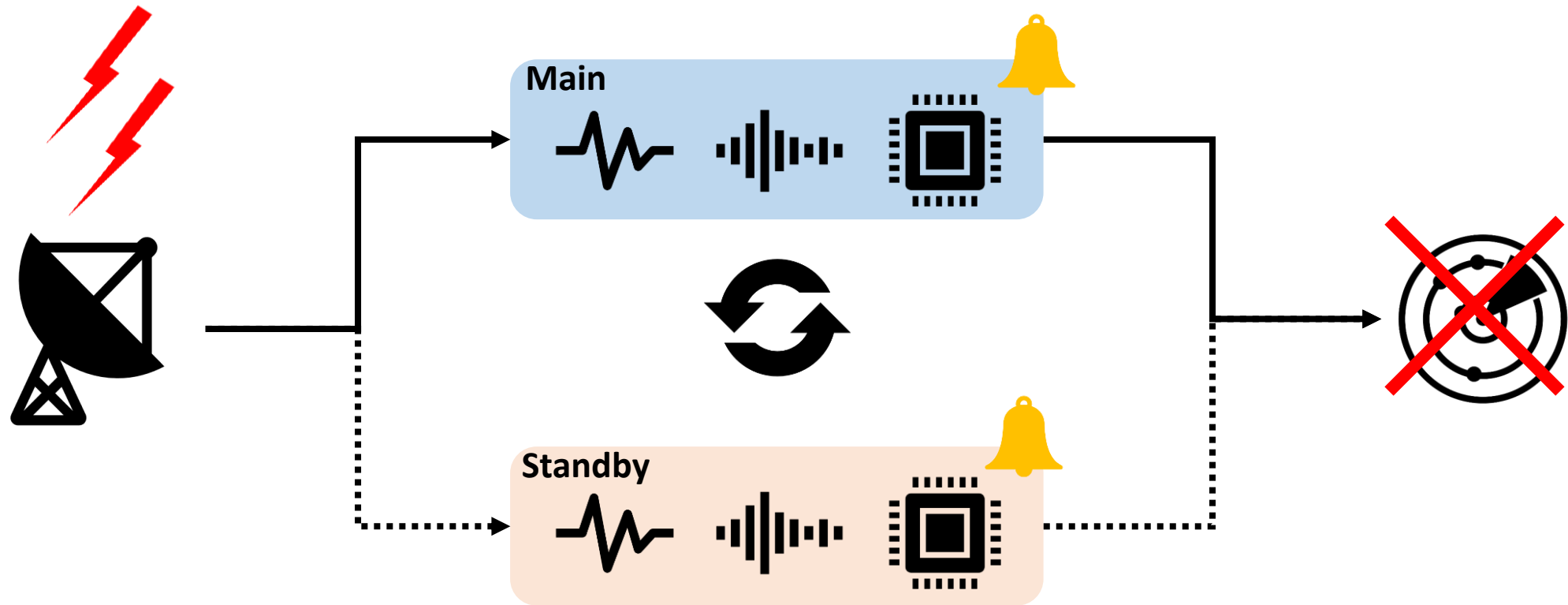
Presented by Yongwoo Jung
(Korea Airport Corporation, Republic of Korea
loyyd03@gmail.com(+82-01-9021-7213))

Overview

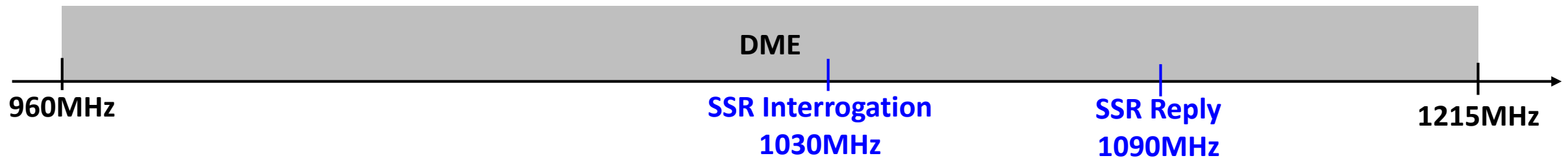
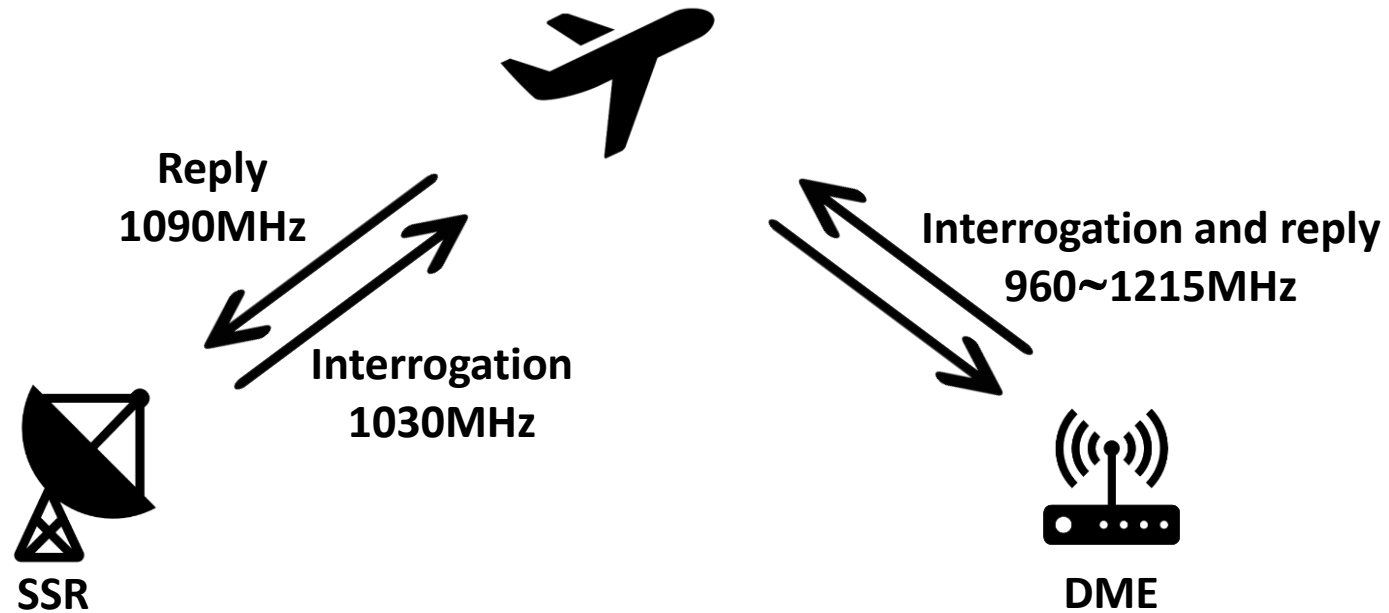
- RF-interference Indication on SSR
- Influence on DME
- Tracking of RF-interference
- Danger of video transmission in UAV
- Discussion



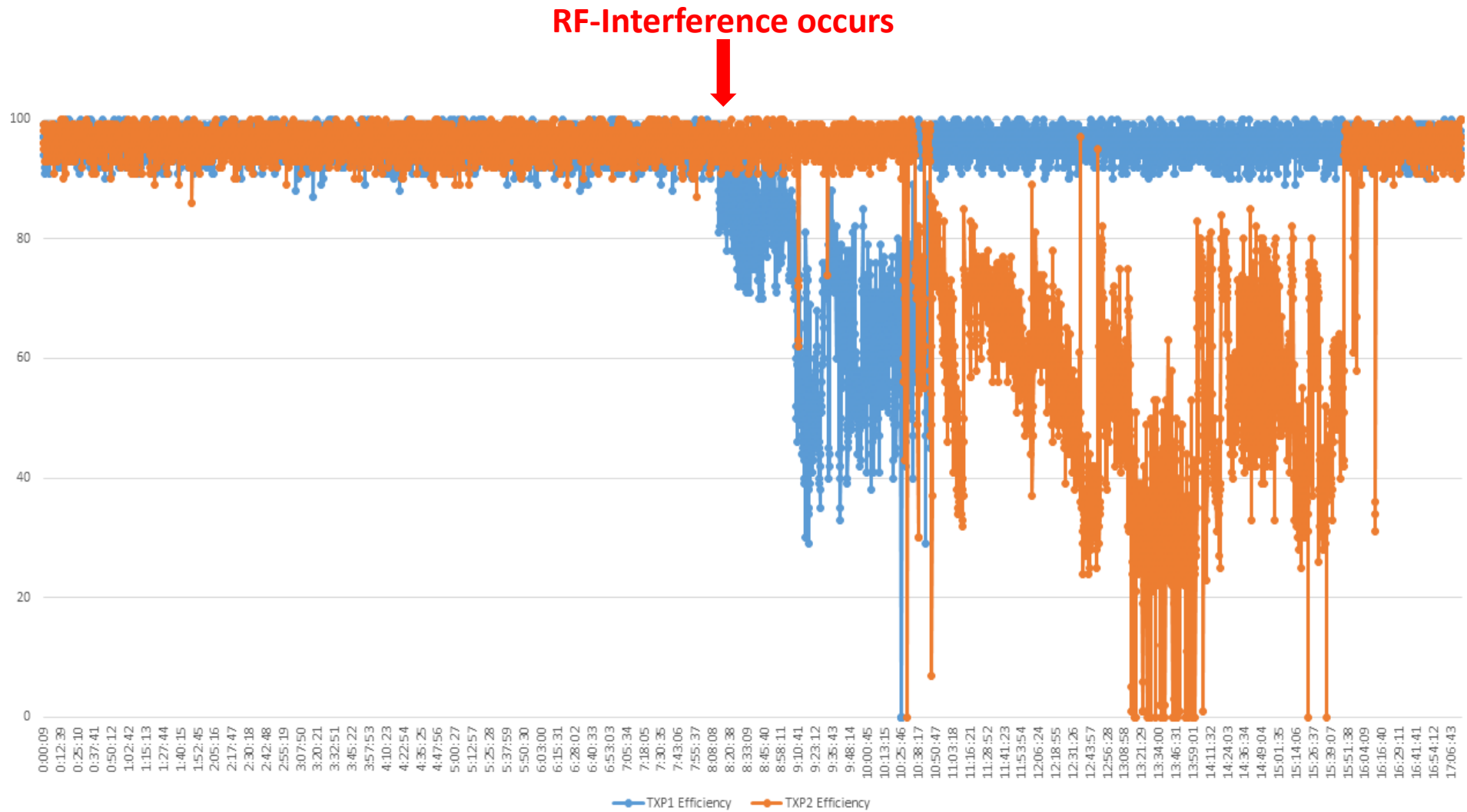
RF-Interference Indication



Influence on DME



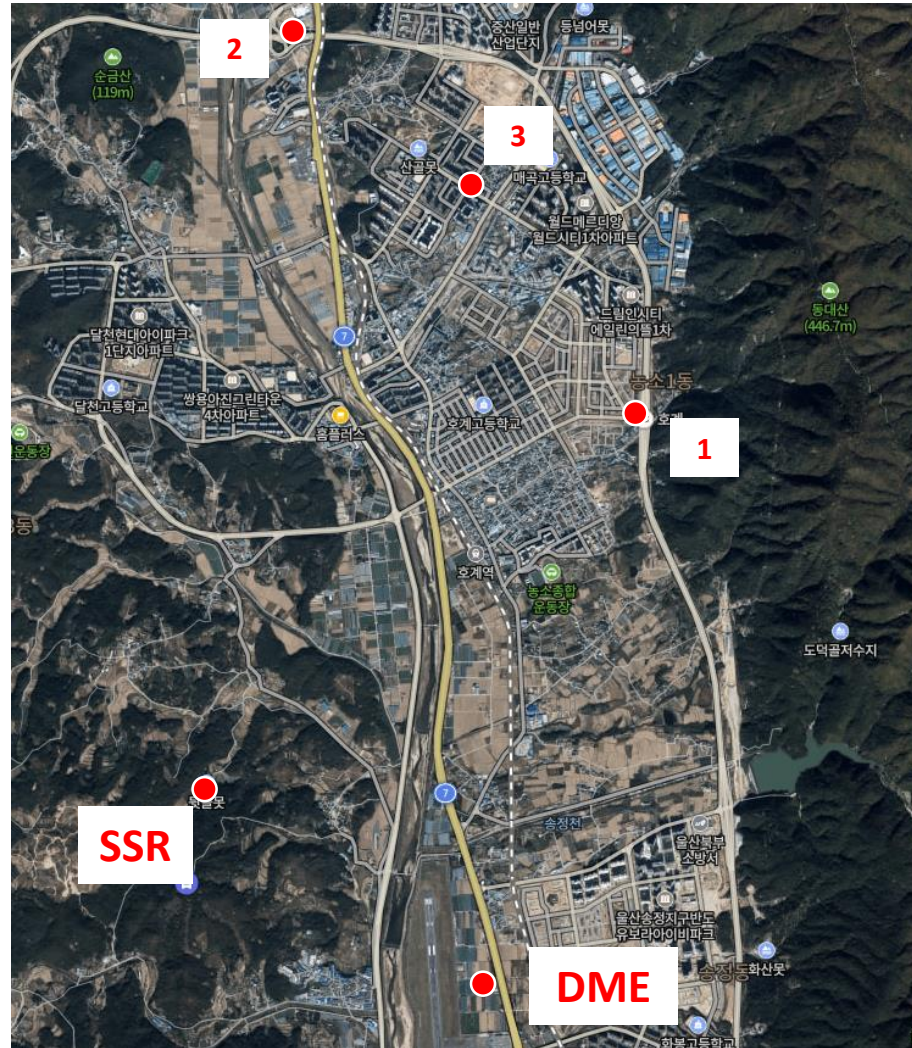
Influence on DME



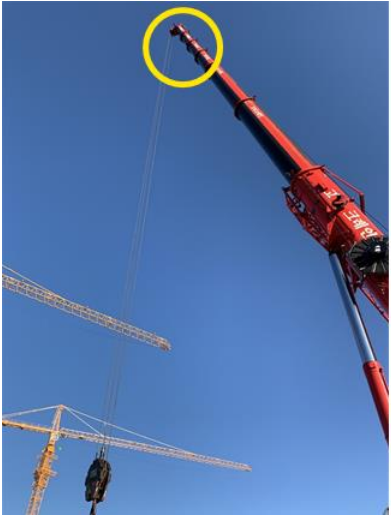
Tracking of RF-interference



Handheld Spectrum Analyzer



Danger of Video Transmission Equipment in UAV



Transmitter description:

Transmit Power: 5000mW

Working frequency: 1.2G (1080mhz -1120mhz -1160mhz -1200mhz)

Working voltage: DC12V

Operating Current: 900mA

Body product: 79*47*19(mm)

Video input port : Please see on picture

Channel Selection: 4-channel audio and video synchronization and adjustable

Transmitter Distance: below than 1000M in open air (300-500 meters to recommend)

Discussion

- If there are more cases about RF-interference by UAV, I'd like to hear
- Idea proposal for RF-interference Prevention