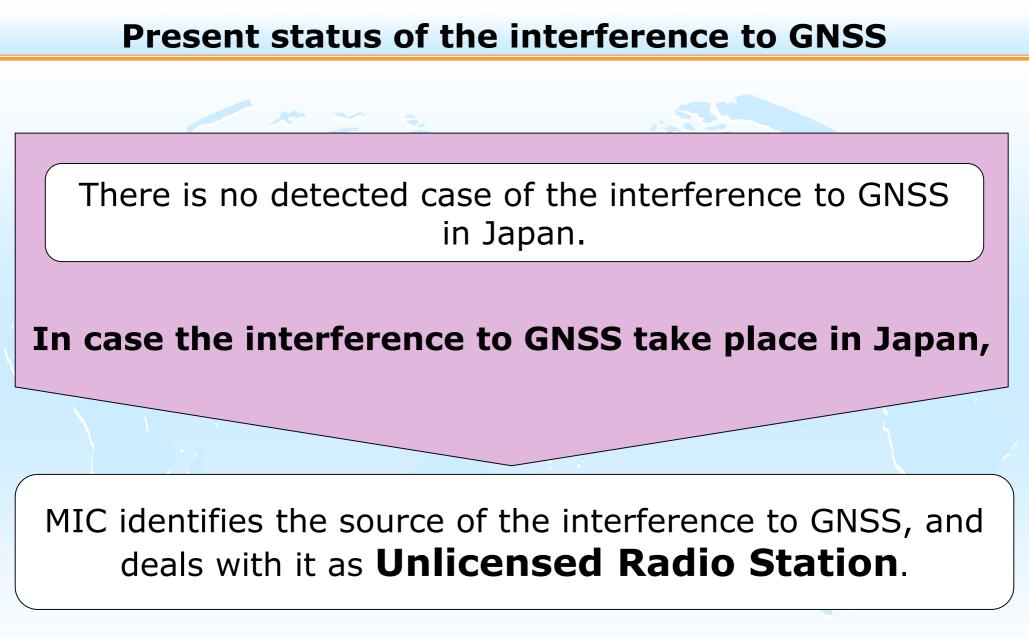
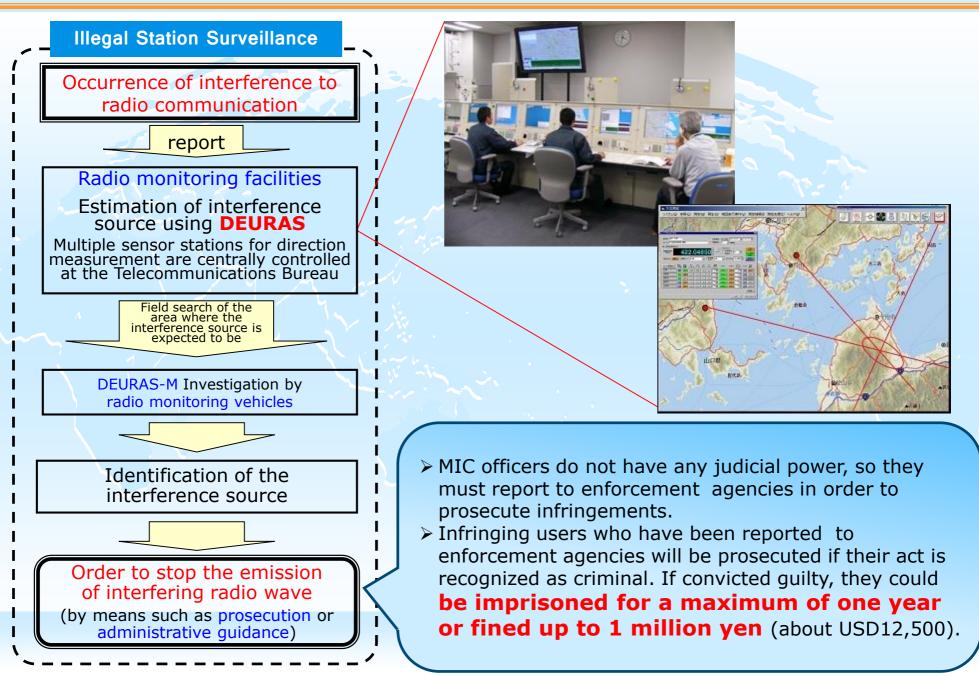
Present Status of Interference to GNSS in Japan

Yoshiaki SATO

Radio Monitoring Office Radio Department Telecommunications Bureau Ministry of Internal Affairs and Communications (MIC)

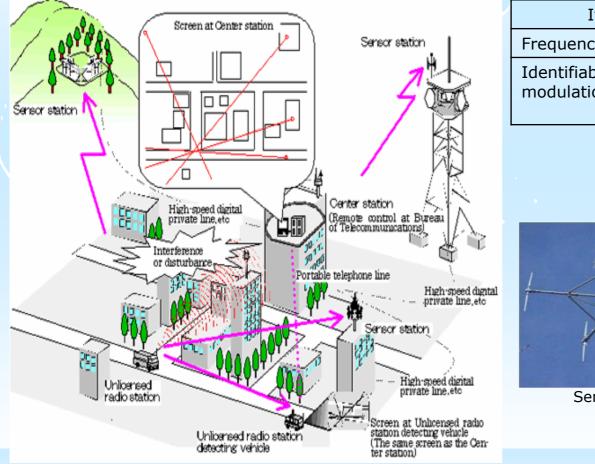


Detection of and Enforcement on Unlicensed Radio Stations



Outline of DEURAS-D

The DEURAS-D system consists of center stations and numerous sensor stations which measure the frequency, band width, modulation and direction of the emission in question. Based on this information, the location of the emission source can be displayed on a map at the center station.



Items	Specifications
Frequency range	25MHz-3GHz
Identifiable modulation schemes	AM, FM, SSB, CW, BPSK, QPSK, π/4 shift QPSK, 8-PSK, 16QAM, FSK, MSK (including GMSK)





Center station



Console screen display

Outline of Radio Monitoring Vehicles (DEURAS-M)

DEURAS-M are vehicles that function as part of the DEURAS-D system to pin-point the location of unlicensed radio stations.



Radio monitoring vehicle

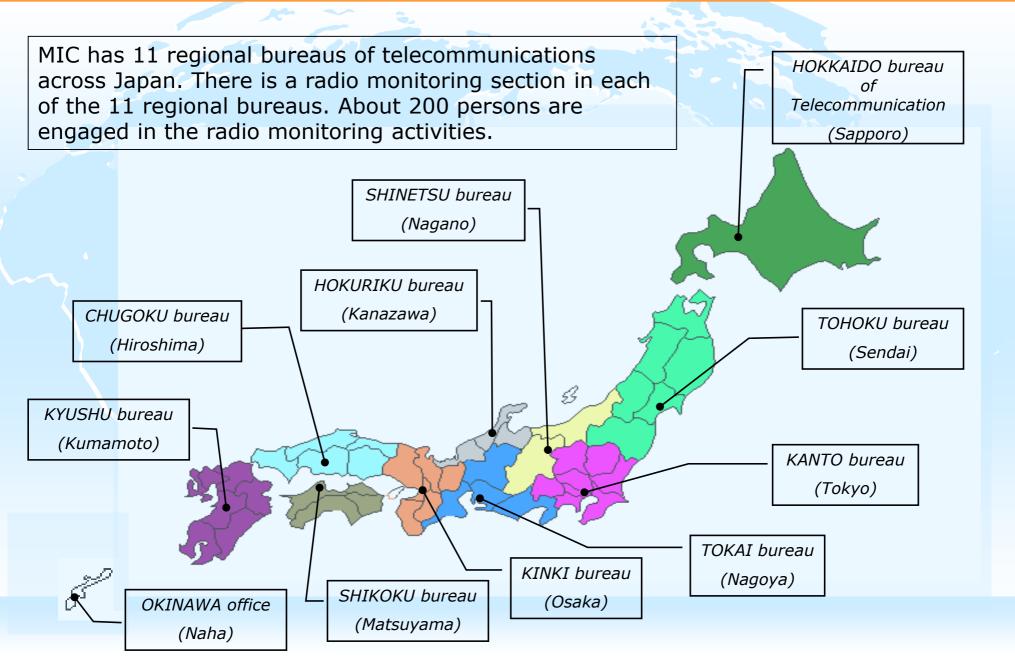


Radio monitoring vehicle (from side)

Items	Specification
Frequency range	25MHz-2.4GHz



Radio Monitoring Offices



Thank You !



Ministry of Internal Affairs and Communications ("MIC"), Japan

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