

Case study #	1.4
Title	Emission from telephone equipment affecting an amateur radio
Type of trouble	Acoustic noise.
Source of trouble	Host equipment of telephone system.
System affected	Customer's equipment and office equipment.
Location	Customer premises, Telecommunication centre.
Keywords	Emission, amateur radio, common mode choke, filtering.
Version date	2004-01-01

System configuration

Acoustic noise interference occurred in an amateur radio installed on the second floor of a building (see Figure 1.4-1). The building's first floor is an office and workshop and the second floor is a living space. The affected frequencies were 145.00 and 144.00 MHz. A lot of office equipment and manufacturing equipment was installed on the first floor. The distance between the amateur radio and the noise source (core equipment) was 10 m.

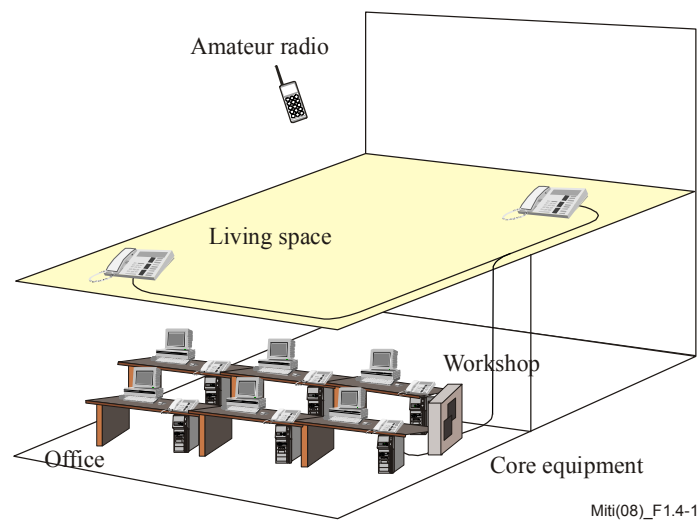


Figure 1.4-1 – System configuration