

# System, Infrastructure and Interfacing

## Foreign radio signals/jamming influences and so on, what needs to be considered when using free@home wireless?

The radio signal of [free@home](#) wireless devices can be disrupted by other radio stations.

Especially problematically are stations which broadcasts in a similar frequency band.

That could be:

- wireless router (2.4GHz)
- microwaves
- fluorescent lamps
- Cheap or defective electronic products

### Effects of disturbances

The interference of the radio signal can have the following effect:

1. Delayed reaction
2. Disconnection to a subscriber

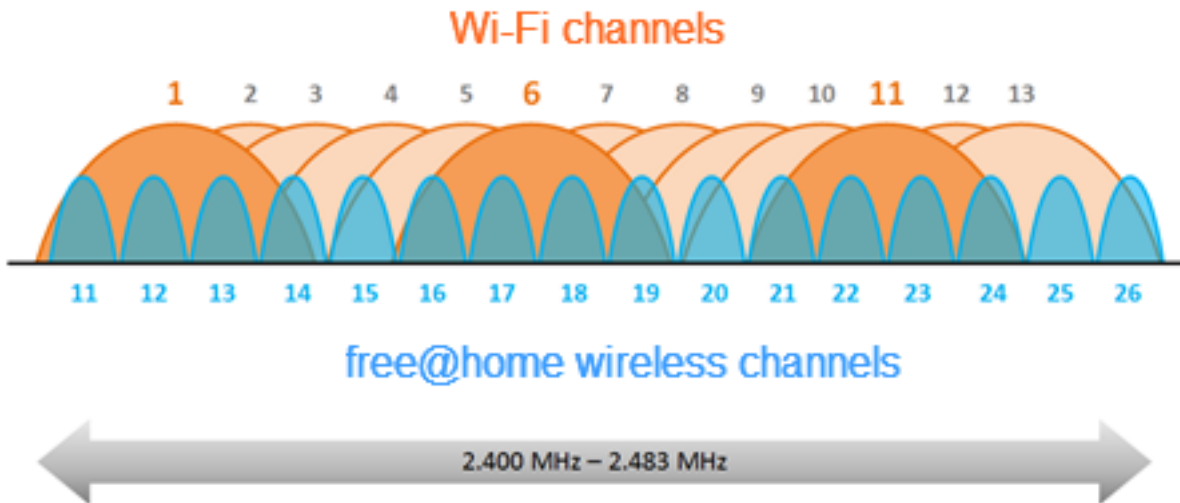
### Comments to the 2.4 GHz band

Wi-Fi and [free@home](#) wireless are using the 2.4GHz band. It extends over a frequency range of 2,400 MHz to 2,483 MHz. This range is divided in several channels.

The frequency band of the Wi-Fi channel is not congruent with the frequency band of the [free@home](#) wireless channel.

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## Channel separation in a 2,4 GHz band



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