

Antenna Alignment during R5000 device Deployment



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Prior to the antenna alignment activity, perform the radio planning activity using either **InfiPLANNER** tool available via <https://infiplanner.infinetwireless.com>, your own RF planning tool or ordering Infinet Wireless Professional Services.

To obtain maximum system performance, antennas must be precisely aligned towards one another according to LOS requirements. General recommendations for antenna alignment are as follows:

- Align antennas using optical equipment (binoculars, spyglass) accompanied by mobile phone actions coordination
- Use GPS receiver, compass and area map
- Use build-in Infinet Wireless unit features. These features allow for the evaluation of the current channel and signal quality and are a powerful aid in performing precise antenna alignment.

Antenna polarization must be taken into account while installing. Please check the corresponding labeling on the antenna and refer to the antenna technical documentation.

Omni-directional and sector antennas have a wide radiation diagram width, thus usually they either do not require a very precise alignment or it is just not necessary due to radio link requirements.

In most cases Omni-directional and sector antennas have a vertical polarization. Directional antennas can be installed either with vertical or horizontal polarization.