

data sheet

Wireless network planning with simulation

How Wireless Consulting Works

Just 60 seconds and a click away:
the way we work is explained in the video.



Because good simulation **WORKS** better

Using floor plans and the previously accepted requirements, we simulate the WLAN propagation with the defined WLAN components. The simulation results are verified using partially performed WLAN measurements and compared with the local conditions. Based on the knowledge gained in this way, the installation points are inspected and documented accordingly.

The result: You will receive a parts list from us of the required hardware (access points, antennas, splitters, antenna cables, power supply etc.) including specific installation instructions for each installation site.

We simulate - you benefit

Wireless network planning with simulation by Wireless Consulting consists of a logical sequence of proven steps. It includes the phases of **preparation, technical execution on site** including the measuring equipment, **evaluation** and **post-processing**.

1. Simulation of the WLAN infrastructure incl. frequency planning based on detailed building plans

- Integration and calibration of building plans
- Drawing of the building structure and definition of materials
- Defining the attenuation zones and supply areas
- Simulation with display of predefined parameters for ranges, data throughput, redundancies, and channel planning



2. Partial radio field measurement with reference AP at 2.4 and/or 5GHz (on site)

- Reference measurements per building to verify the simulation results
- Inspection of the installation sites and taking note of the local requirements
- Measurement protocol "radio field measurement" according to the approved frequency bands
- "Spectral analysis" measurement protocol (potential sources of frequency interference)



3. Wireless network planning on the basis of simulation and re-measurement, with creation of documentation

- Evaluation of the measurement results and adjustment of the channel planning
- Photo documentation with details of coordinates per host/device on site
- Specific installation instructions according to on site conditions incl. data connection, power supply
- Creating the quantity structure / parts list of the components to be installed



Good service & fair prices - a connection that **WORKS**

Services and travel expenses of this project phase are invoiced at a flat rate. We estimate the expenses for the wireless network planning in advance and offer/bill with verification.

Fault analysis – WLAN certification – Familiarization – Simulation – Wireless planning
Training – QoS Measurement – Commissioning – Configuration – Conception