



## PreHCM MxWell

Use the BNetzA reference tool "Wattwächter" to efficiently calculate the electromagnetic environmental compatibility EMF of your mobile communications site

### Calculation of the electromagnetic field for the site certification procedure

Wattwächter is an assessment procedure developed by the Karlsruhe Institute of Technology on behalf of the German Federal Network Agency (BNetzA) for issuing site certificates for mobile radio stations. This assessment procedure is implemented in the "Wattwächter" software using scientific methods and is used to calculate and display the electromagnetic field in the immediate vicinity of mobile phone antennas.

This results in a protection zone around the transmitter. The operator of the mobile radio installation takes structural measures to ensure that the limit values for the electric and magnetic field specified in the 26th BImSchV are always complied with outside this area, thus guaranteeing the protection of the population.

The software PreHCM MxWell integrates the latest version of "Wattwächter" in a cloud environment. An easy-to-use interface and the overlaying of calculation results on construction plans enables a quick and efficient assessment of the site with regard to its suitability for obtaining a site certificate (STOB).

### You know these challenges:

#### Many locations with WWSTOB

- Mobile network operators are continuously modernizing their networks in ever shorter periods of time
- Almost all roof locations now require a watchtower STOB

#### Increased time expenditure

- Maintaining and historicizing location data records takes time
- For local installations, the computing power becomes a bottle neck

#### Local management

- The field data of the antennas required for the calculation must be maintained
- The latest version of the watchtower must be installed

### We have your solution!

#### Central data management

- Centralized management and maintenance of all available field data
- Professional database for managing all location data records
- Integration with the PreHCM Suite to support the end-to-end approval process with the BNetzA

#### Powerful cloud environment

- Scalable parallel calculations in a powerful cloud environment
- Any amount of available storage space

#### Continuous development

- Continuous further development of features in close consultation with users to further increase efficiency
- Increase automation through the use of digital building data