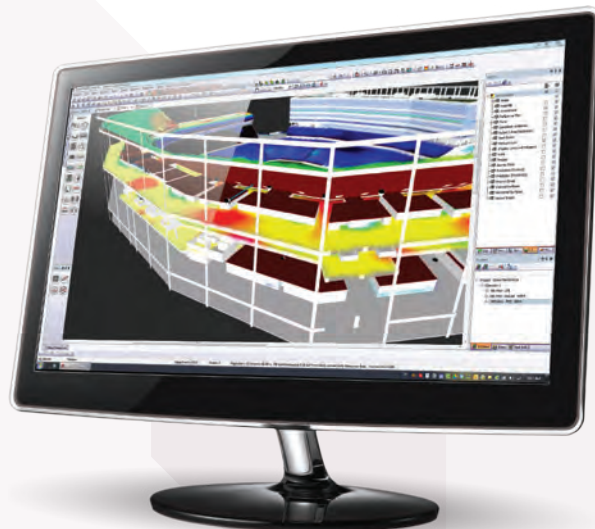# iBwave Wi-Fi®

OPTIMIZE YOUR TIME BY STREAMLINING YOUR ENTIRE Wi-Fi NETWORK DESIGN PROCESS

iBwave Wi-Fi® is a complete Wi-Fi design production tool that optimizes your time and streamlines your network design process. Use iBwave Wi-Fi® to run your active and passive surveys, model your venues with advanced 3D capabilities, design your network with all required network components, run and calibrate your prediction, and easily collaborate with all of your project stakeholders. With iBwave Wi-Fi® you can:

Easily run active & passive surveys with an integrated server

- Run active surveys using our integrated server, eliminating the need to launch command prompt / iPerf
- Survey using internal or external radio or dongles

Complete full network designs with APs, cables, switches & routers (and more)

- Access our large database of all network components to complete full designs
- Produce a full Bill of Materials for your installers and customer
- Get additional access points or network equipment quickly added to the database via our customer support team
- Easily model and add additional access points to the components database, yourself

Run prediction and calibrate results using survey measurements

- Produce and view output maps: RSSI, CCI, Best AP, Best Channel, Overlap Zone, Data Throughput
- Create calibration models to calibrate prediction results with survey measurements (environment and coefficients)
- Save calibration models to assign to similar projects in the future

Model and design networks in advanced 3D

- Model and present your buildings in advanced 3D
- View and validate your network design, with prediction, in full 3D: Access point placement, network equipment, cabling
- Adjust wall heights, and 'walk through' your buildings in 3D

Provide your stakeholders with key reports and access to iBwave Viewer

- iBwave Viewer is a free reader for your stakeholders to run project reports and easily view design files
- Generate key customer reports: Complete Bill of Materials, Cost Details, Prediction vs. Measured Data, Design Plan
- Generate key installation reports: Annotation report with images of the site, Cable Routing report, Building Design Plan

Save & access your projects to the cloud for better collaboration with stakeholders

- Save your project files to the cloud for team members to easily access
- Easily access your project files via the iBwave Wi-Fi® Mobile app on your tablet or smartphone while on-site

iBwave Wi-Fi® software features

Wireless Technologies
Wi-Fi (802.11 a/b/g/n/ac)

Data Collection
Active walk test with integrated server

Passive walk test

Network Design
Design Plan for indoor RF system design (building and/or floors)

Centralized database with vendor-modeled network parts: APs, cables, switches, routers

Advanced 3D design with adjustable wall heights and inclined surfaces

Network validation and error checking

Automation
Automatic Design Plan organizer

Automatic access point placement and Automatic channel assignment

Calculations
Automatic cable length measurements

RF Downlink link budget calculations

Building Modeling
Create multiple buildings, and multi-layered floor plans

Import floor plans and walls from .dwg, .dxf, .jpeg, .bmp, .tiff, .gif or .pdf files

Draw walls and surfaces (including inclined), assign materials or create your own

Advanced 3D Viewer to display buildings and floors

Export building to Google Earth and building in Google Earth or Bing

Propagation
Simultaneous multi-band / technology propagation 3D prediction analysis

Variable Path Loss Exponent , COST 231 Multi-Wall or Fast Ray Tracing propagation models

Probe to display multi-system prediction results

Compliancy results and report based on user defined criteria

Prediction model and material calibration from survey data

Output Maps
RSSI, CCI, Wi-Fi Best AP, Best Channel, Overlap zone, AP Count, SNR

Project Documentation
Drawing tools for lines, shapes, text and images

Create picture plans and photo mock-ups

Create annotations (text, voice, picture, video)

Create project revisions

Project file password protection

Export project to .dxf format and all annotations to zip file

Reporting
Annotations, Output maps, RF Survey reports

Equipment list and Cost Details report

Access Points, Cable Routing and Cross-Reference reports

Prediction vs. Measured report

Compliance Report

Free report viewer for project stakeholders

Tools
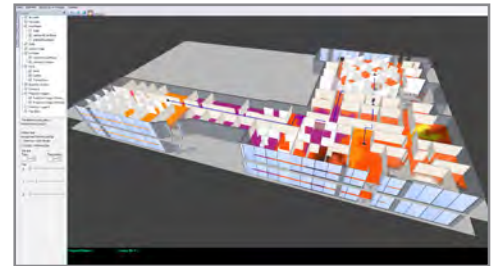Net Scan (active and passive) including local server

Power and frequency converter
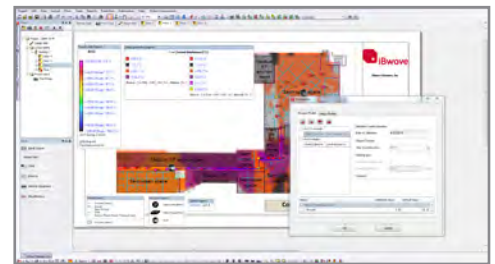
Intermodulation calculator

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iBwave Wi-Fi®

A complete Wi-Fi network design tool that optimizes your time.
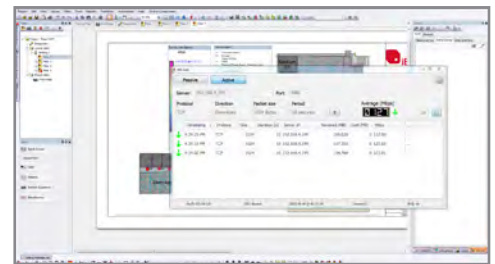

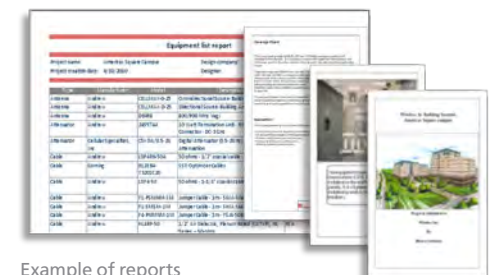Design with APs, Cable, Switches, Routers

Model building and view prediction in advanced 3D

Run prediction and calibrate with survey measurements

Running an active survey in software

Example of reports