wifi booster & extender

Wifi til-U-die

what is for?

(general description)

Why do you need a Wi-Fi Site Survey? What can you get from Wifi Booster & Extender service?

- Discover RF Coverage Areas/ Coverage Holes
- Identify sources of RF Interference (internal – microwave owens, cordless phones, satellite dishes, etc; external – neighboring access points, etc)
- Determine the Quantity & Optimum locations for placement of Wireless devices

Why is a Site Survey required for your Wi-Fi Network?

A wireless network is comprised of the Wireless Access Points, Wireless Controller, Wireless clients & the passive and active network components, that connect them to the LAN backbone. Unlike wired networks, where one can say that so many switch ports are required for so many users, its difficult to predict the number of access points (based on the number of users) for wireless networks.

While an access point could connect to hundreds of computers theoretically, there are a lot of factors like bandwidth per user, distance from the access point, type of wireless technology used (802.11a/b/g/n), co-channel/ external interference, roaming, etc that can influence the actual number of users/ quality.

So, a wireless site survey is the best way to determine the number of access points and their positions for optimum wi-fi coverage in the area.

what we do?

(actions/ phases/ deliverables)

How we will perform the Wi-Fi site survey for you?

Some providers take the soft copy of a floor plan, use their site survey software to determine the number and position of the access points; some combine the above process with a manual survey to see the possible sources of obstruction on the site. Some providers do only the manual survey and guess the number of access points required, based on their prior experience. **It is not our case**!

The best way to do a site survey for you is to come to your site, place an access point (battery powered, so that it can be moved) at places where the new access points are supposed to be placed and check for the received power levels using laptops (loaded with a site survey software) at various distances / positions around the AP. Some site survey softwares automatically record the power levels as they move around, while some enter them manually. If multiple frequencies (2.4Ghz/5Ghz) are going to be deployed, the survey could to be done for each frequency by using multiple client adapters for all the channels to **check the actual coverage area/ intensity for each.**

In addition to this, the surveyors will get **clear information** on maximum users in each area, minimum required bandwidth per user, number of floors, barriers for RF signals (like metal racks, elevators, walls, steel beams, ducts, concrete, asbestos, etc), the number of voice over wi-fi handsets (maximum concurrent calls/ coverage/ roaming), type of applications used on wireless (Mail/ Internet/ streaming media), etc.

what we use?

(technologies)

ekahau
WIRELESS DESIGN

Ekahau Premium Pack DS

download
Ekahau Premium Pack DS
from www.temperfield.com/technologies-index

DATASHEET

connect & collaborate

temperfield
www.temperfield.com

what we provide?

(benefits)

What happens after the On-Site Site Survey? What else do we provide with the Wifi Booster & extender service?

Within a few days of completing the on-site wi-fi site survey, we will present you a detailed report. Among other things, the report includes the number (and model) of access points required for your site, floor plans with the access points position marked on them, coverage pattern clearly indicated for each access point (through the usage of various colours – each for a particular signal strength value), bill of materials for the wi-fi project along with the cost estimation, etc.

Wifi Booster & Extender service will improve your wifi, by providing you:

- **RF interference from neighboring access point**s (hotspots, AP's from neighboring office, etc)
- **RF interference from non wi-fi devices** like microwave ovens, cordless phones, satellite dishes, etc
- **Access Point coverage pattern on multiple floors** (Its possible to reduce the total number of access points if the AP's from top and below floors are considered)
- For sites with primarily outdoor coverage, we can **integrate web based applications like Google earth** to prepare (and present) more accurate results
- Total number of users currently/ **expansion planned for the near future**/ user density in each floor
- Channel Interference from other access points/ overlapping of all AP's where voice roaming is required
- Passive/ Active components to **connect to the LAN backbone** – cables, cable routes, POE switches, racks, etc
- Basic coverage at some places (like lawns) / Powerful coverage at places with higher user density (like conference rooms)
- Desired (minimum) **rate of bandwidth per user**
- Length/ width / number of floors/ wi-fi obstacles/ radio types (802.11a/b/g/n)/ outdoor coverage/ **wi-fi leakage** outside the building, etc

ask for more info

connectandcollaborate@temperfield.com
or at +40 31 432 80 83