

CASE STUDY – In-Building Services (IBS)

Project Type: In-Building Service Installations

Client: Mitech, du.

Owner: Emirates Airlines

Location: Emirates Airlines HQ building.
Dubai, UAE

Brief:

To Install and test comprehensive antenna and cabling systems as part of an integrated In-Building GSM network.

To install and test a full 'electrical fit-out' of an equipped GSM room.

Scope of Works (SOW):

Across 12 floors of the Emirates building install, to pre-approved plans,-

- 3 dBi Omni indoor antennas.
- 7 dBi Indoor panel antennas.
- All RF Feeder cable and associated jumper cables, connectors, power couplers and splitters.
- Test all RF cabling and connectors after installation prior to handover.

Plan and install Low Voltage fit out for GSM equipment room including –

- Low Voltage Distribution Board.
- Power outlets.
- All cabling and dressing.
- All cable tray work.

Constraints:

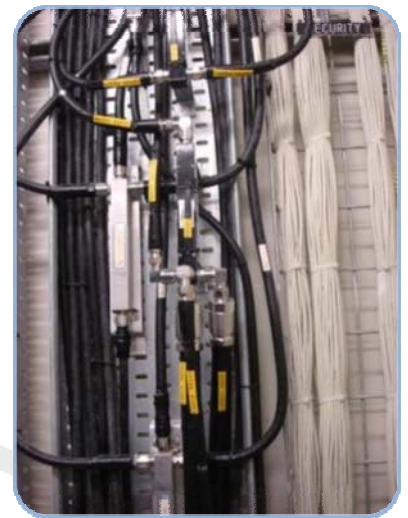
The Emirates HQ building was occupied and fully operational at the time of installation thus posing the problem of executing the proscribed works with minimal interruption to staff and visitors. Without question Jaggard were to employ the highest standards regarding Health and Safety not only for themselves but with respect to the occupants around them.

As the building is considered a highly secure site Jaggard Wireless had to be flexible to work with the client in regards of site access, restrictions and procedures.

Much of the work would need to be undertaken in confined spaces where vigilance and adherence to 'safe working practices' was a must.



Emirates HQ Building. Dubai, UAE



Installed 3 Way Splitter



Completed connections and dressed cables

Method:

Jaggard Wireless submitted method statements, drawings and schedules for client acceptance prior to the commencement of the respective works.

Our experienced RF technicians installed Andrew 3dBi Cell Max-0-25 and Kathrein 7dBi 800-10248 antennas and Andrew LDF5-50 and LDF7-50 cable. They also undertook all cable terminations and connections precisely following the detailed design package.

All cable runs and connectors were tested by our trained staff using Sitemaster test equipment; the retrieved data being submitted to our client for approval and acceptance.

Our skilled electrical teams installed the related hardware and electrical cabling in the sites GSM room.

All works were completed to British Standards as a minimum.

Result:

In total, over 12 floors of the Emirates building, Jaggard Wireless successfully installed over 7500m of RF cable and 190 antennas. All cable systems were tested with positive results and Site handover was achieved in August 2009.



Hallway with ceiling mounted CellMax-0-25 Antenna



Above: GSM Room electrical fit-out

Left: Lobby with ceiling mounted CellMax-0-25 Antenna



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