



Case Study

Wired/Wireless telephony and Data connectivity in networking environment for

Ippokratio Hospital in Athens

The Customer: Ippokratio is a historical general hospital located in the center of Athens with approx 600 beds capacity (this number is expected to grow in the near future). Founded in 1922, Ippokratio is one of the biggest Public Hospital in Greece providing high level medical services in various fields. Several Public and Academic/University Clinics specialized in several medical sections are under Ippokratio umbrella justifying the fame of one of the most experience Hospital in Greece about specific medical subjects.

A group of buildings scattered around (nearby and some of them far away), of the main Ippokratio historical building, which is constructed in 1900, host the Hospital facilities and create needs for communication in networking environment.



The need: Ippokratio Hospital mainly needed to provide phones to approx 700 users while 100 of them need to carry cordless terminals moving in any place inside Ippokratio group of buildings having the ability to accept and make internal & external calls. Moreover 30 users who are located in a far away remote site should be part of the Voice / Data network of Central Ippokratio site. Additionally an ACD application in network environment with members/agents some blind operators was a mandatory demand to be covered.

The system used:

Central Node

- Platform -600 Slt & Dkt extensions: **FlexiCom 5000 (Tadiran)**
- CTI application - Operator/Blind consoles : **VSMW (Marac)**
- Wireless DECT system 24 bases : **FlexAir (Tadiran)**
- DECT handsets : **60 x Z4020 / 40 x Z4040 (Kirk)**

Remote Node

- Platform - 40 Slt & Dkt extensions: **FlexiCom 200 (Tadiran)**
- Wireless DECT system 1 base/repeater : **Z-500/WRFP (Kirk)**
- DECT handsets : **8 x Z3040 (Kirk)**
- Data Switches: **T5 (Batm)**

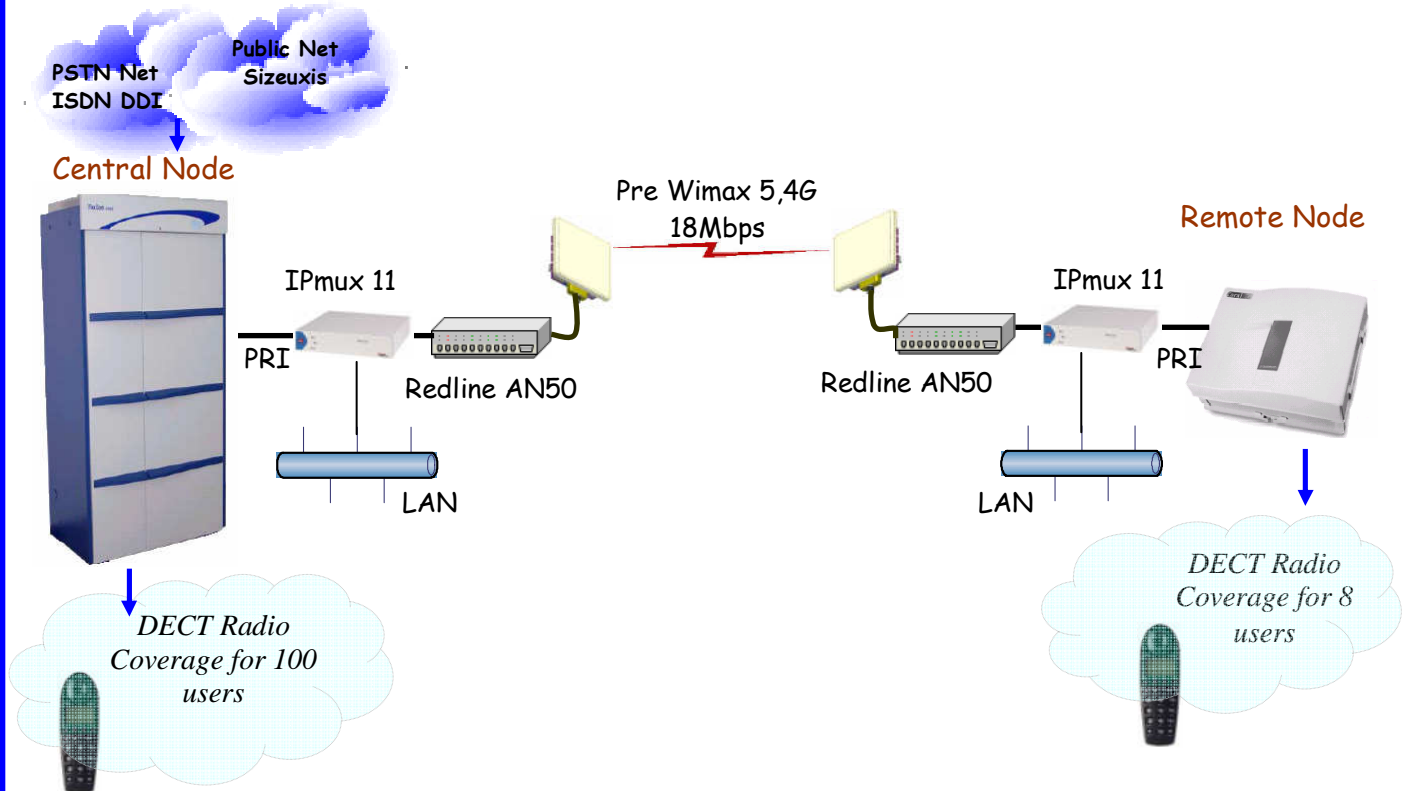
Data - Voice Network

- Pre-Wimax system : **AN50 (Redline)**
- TDMoIP voice system : **IPmux11 (Rad)**



The Net Diagram:

The following diagram presents how the data & voice network is implemented between Central Hospital node and the remote one.



The results:

- 100% radio coverage for 5 buildings in central site (~ 25.000 m2 area) and for remote site building.
- Offering mobility to 100 (today) doctors, nurses, technicians, stuff, hospital employees ...
- Offering roaming to 8 remote site DECT users, in the area of central site DECT network.
- Providing future expandability on radio coverage very easily.
- Creation of data/voice network based on a private high rate (licenses free) RF link, ensuring priority - QoS - for voice traffic against data traffic.
- Efficient incoming calls handling in network environment, improving the Hospital image (ACD/AA/VM/..)
- Providing all the appropriate tools to the blind operators/users to manage their tasks successfully and independently.
- Providing future expandability on number of wired & wireless users without restrictions.



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