TELEVES

FIBREDATA: Cost Effective Multiservice High Speed Networks

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HOTEL REQUIREMENTS - DATA SERVICES (IP)

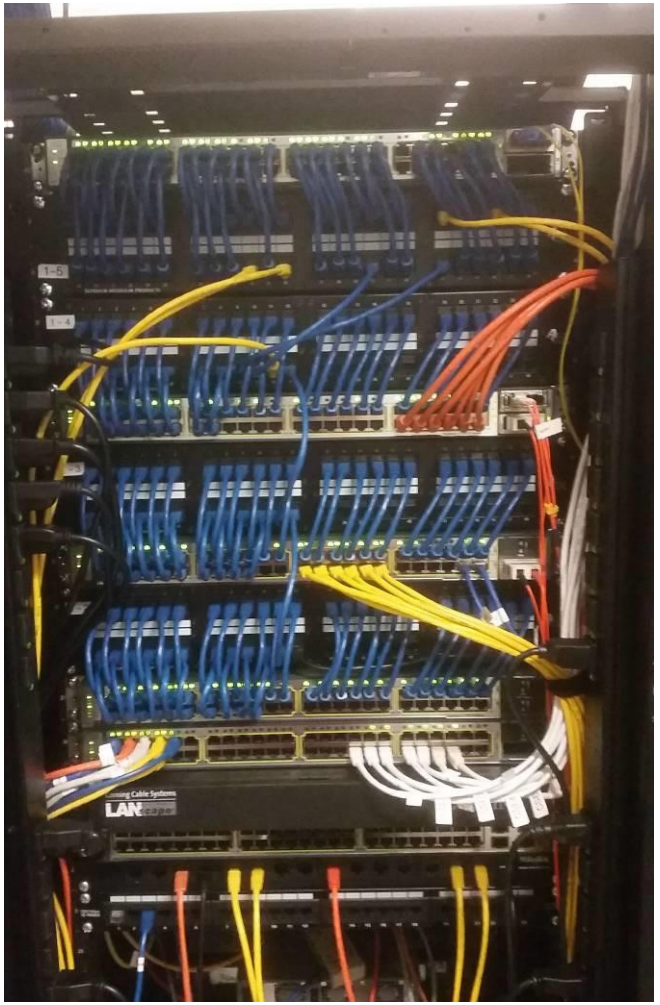
- ✓ GUEST expectations
  - Wireless High speed internet (video streaming, video conference, etc.)
    - wired connection as an option
  - VoiP
  - HD TV (IPTV or RF)
  - Connected game consoles (Play Station)

- ✓ HOTEL requirements
  - Secured network
  - Wireless network for maintenance (info about room readiness, damaged appliance, etc)
  - Energy management of rooms (remote activation of air conditioned, etc.)
  - Environment control (lighting, air fresheners, etc).
  - CCTV
  - Access Control – STAFF

TRADITIONAL DATA NETWORKS SOLUTION

- ✓ TRADITIONAL DATA NETWORKS, based on switches
  - Typically, per service:
    - One core switch per service
    - One switch per service per floor (riser)
    - Direct data cables from riser to the end point (rooms)
  - High network complexity
  - Distributed switches, active devices per floor.
    - Need of ventilated area per floor.
  - No visibility of the network
    - unless manageable switches (more costly)
  - Maximum cable length: 100 meters.
    - Longer distances to be covered with fibre links
    - Need of additional active devices -> More maintenance

Typical floor data distribution rack

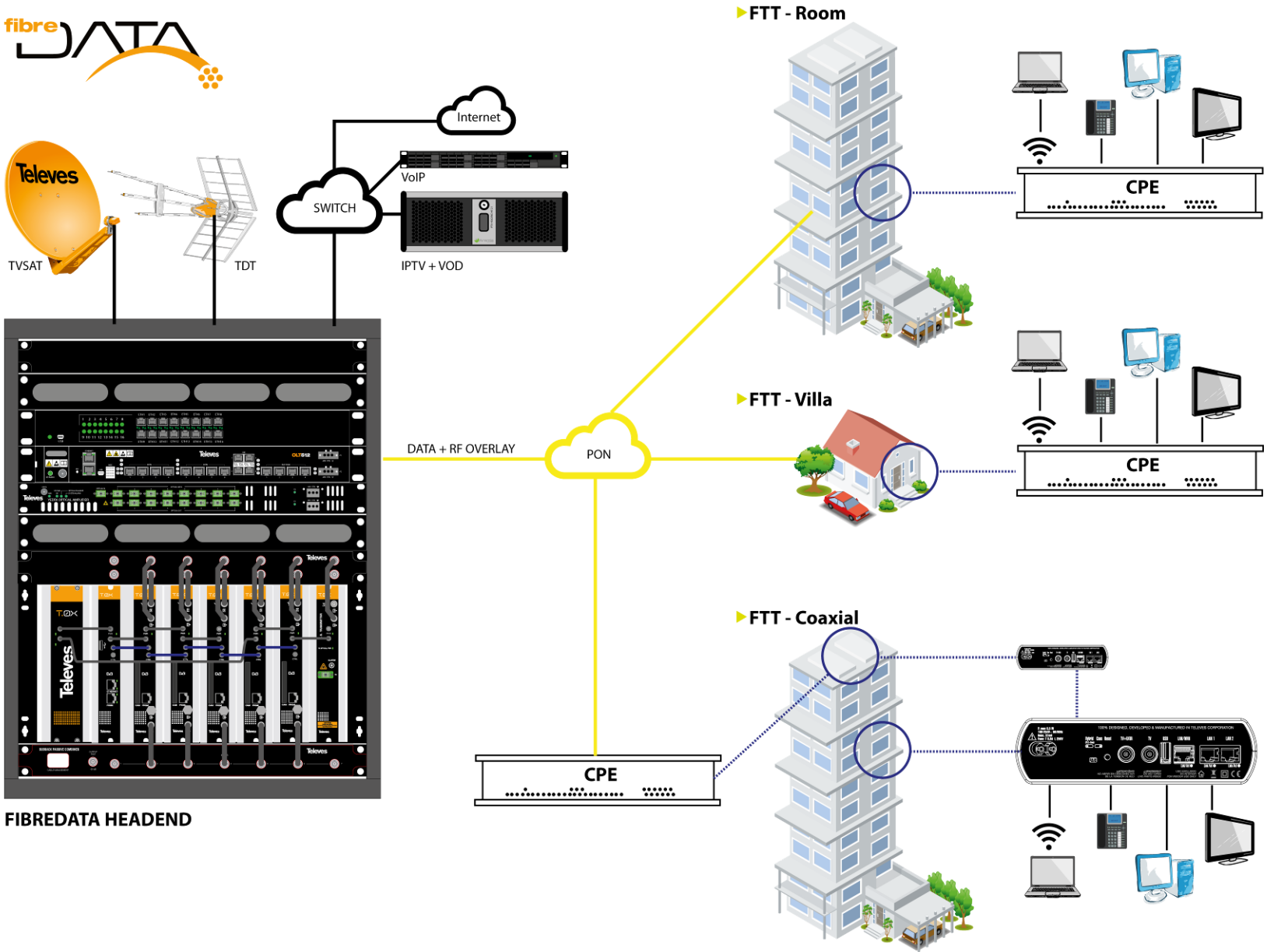


TRADITIONAL DATA NETWORKS SOLUTION

✓ CASE STUDY: HOTEL WITH 10 FLOORS & 24 ROOMS/FLOOR

- Per room, connections from the riser:
  - AP (Internet)
  - Wired Internet
  - TV (IPTV)
  - TLF (VoIP)
  - Game consoles (Play Station)
  - Energy Management
- Public area services, from the riser:
  - Connections to CCTV cameras
  - Connections to Access Control devices
  - Connections to Environment Control devices
- PER FLOOR
  - More than 125 cables from riser
  - 7 SWITCHES: Internet, IPTV, VoIP, Energy Management, CCTV, Access Control, Environment Control
- HEADEND: 7 CORE SWITCHES
- **TOTAL: 1250 data cables in the building**
- **AROUND 80 SWITCHES in the hotel!!!! COSTLY INSTALLATION AND MAINTENANCE**

FIBREDATA: MULTISERVICE HIGH SPEED NETWORK



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FIBREDATA: MULTISERVICE HIGH SPEED NETWORK

- ✓ Passive optical network. No active devices in the network
  - Just an optical splitter in the riser
  - No electrical consumption
- ✓ Complete visibility of the network and centralized management
  - How many people are connected to an AP?
  - Disconnected telephone
  - Missing CPE
  - Etc.
- ✓ Fiber-only network.
  - Future proof solution. More applications on the same infrastructure
- ✓ Gigabit capable network
- ✓ RF Overlay
  - Existing Coax TVs

CPE: Customer Premises Equipment

Data headend equipment

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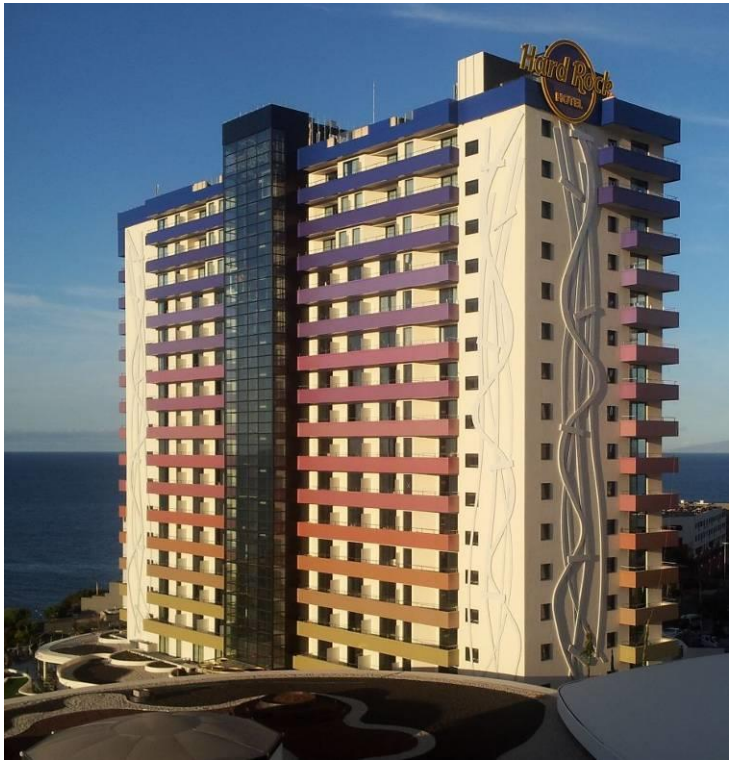
SOME HOTELS USING TELEVES SOLUTIONS IN THE WORLD...



Marriott

Hilton

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HOTELS and RESORTS

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Hard Rock
HOTEL

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HOTELS

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HOTELS & RESORTS

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ACROTEL
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Anthemus Sea
Beach Hotel & Spa

CITYHOTEL
THESSALONIKI

eagles palace
HALKIDIKI

AVATON
LUXURY VILLAS RESORT

Ευχαριστώ για την προσοχή σας