



ALTIA
SMART CITY

**Information Technology
Information and
Communication Technology
Services**



GK
GRUPO KATIPIS

Agenda

- International Telecommunications
- Land Telecommunications
- Infrastructure at Altia Business Park
- C&W Service and Redundancy
- Altia Cloud Contact Center as a Service
- Altia's IT Service and Support
- Additional Information – IT Brands in Honduras

International Telecommunications

- **Honduras:** Geographically located in the middle of the continent, the country has access to a vast international network of submarine cables.



International Telecommunications

- Connectivity to NAP of the Americas
- Several Redundancy Rings
- Submarine cables:
 - Arcos
 - Maya
 - Emergia
 - Global Crossing
(through terrestrial networks)



International Telecommunications

- Connection to Tier 1 Providers:
 - Sprint
 - AT&T
 - Verizon
 - Others
- Services:
 - Internet (5 business days)
 - Datalinks (MPLS) (45 to 60 days)
 - Bandwidth enablement as required by the client



International Telecommunications



International Telecommunications



Land Telecommunications



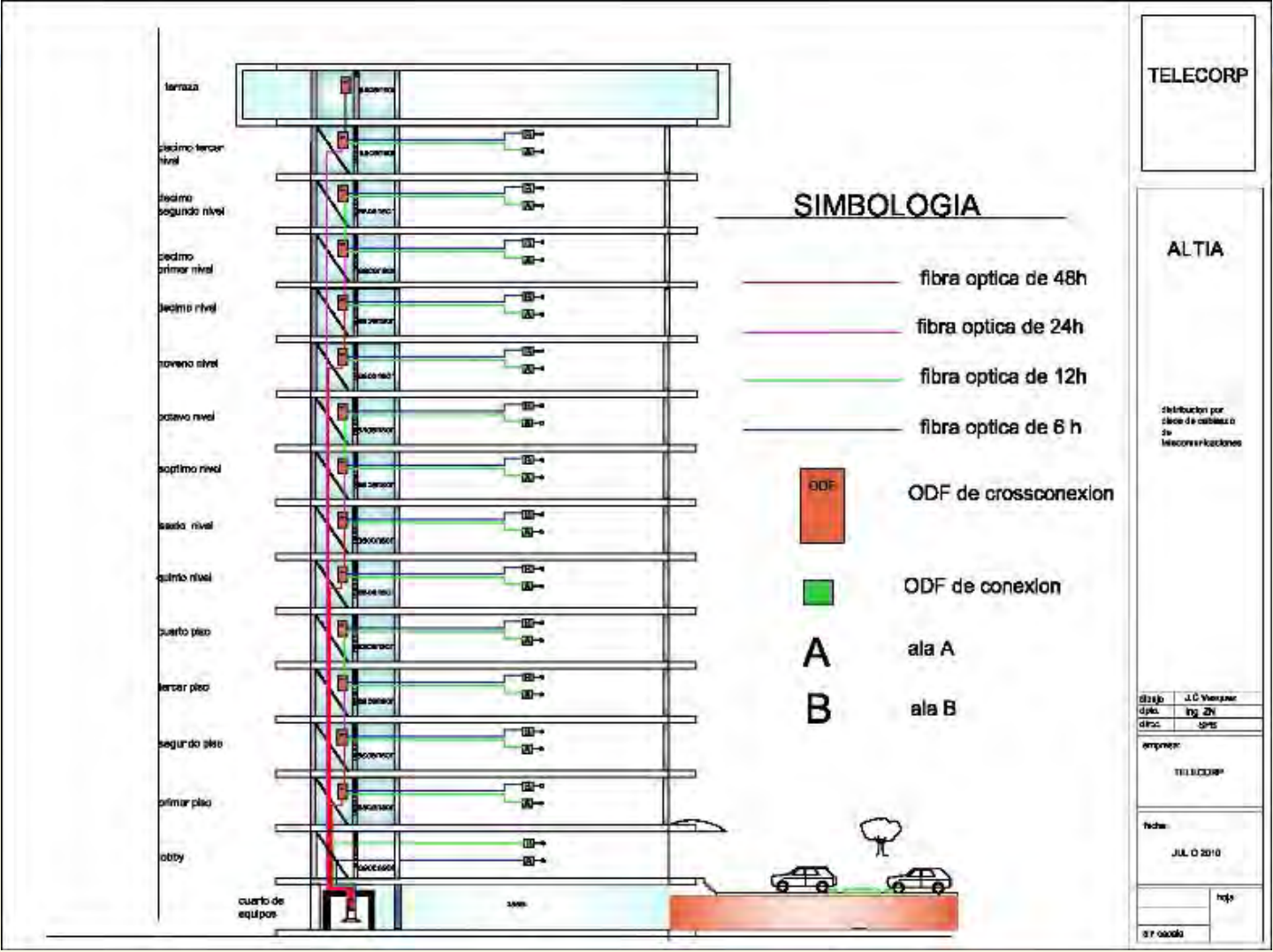
Land Telecommunications

- In-country
 - Several redundancy rings accross the country.
 - Interconnections with other rings accross country's borders.
 - All pure Optical Fiber infrastructure.
- Within the city
 - Several redundancy rings.
 - Mirrored telecommunication nodes in the city.
 - All Optical Fiber infrastructure within town.
 - Distribution of nodes in the city.

Infrastructure at Altia Smart City



Infrastructure at Altia Smart City



Cable & Wireless Business Business Partner

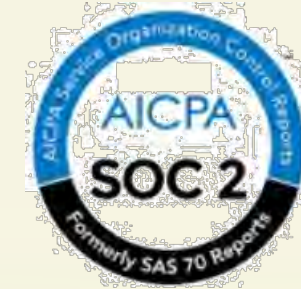
- C&W Business is part of Liberty Global, a worldwide leader in telecommunication services.
- C&W provides the administration of the telecom infrastructure and services delivered to all clients at Altia.
- All service providers converge into a telecom node, and C&W provides the last mile to each client.
- C&W is the only service provider with access to internal infrastructure and fiber distribution, ensuring **physical security**, **service continuity** and **high availability** within Altia's facilities.

Cable & Wireless Business Service and Redundancy

- Redundancy in all aspects
 - Redundancy rings (overseas, country, city)
 - Several optical fiber entrances to Altia Smart City
 - Routers
 - Firewalls
 - Switches
 - PBX (Phone service)
 - UPS for Telecommunications Node

Cable & Wireless Business Service and Redundancy

- Services
 - Networking and connectivity
 - Cloud IT Solutions / Regional Data Centers
 - Security
 - UC and Collaboration
- Quality of Service
 - Service Management (international standards, ITILv3)
 - Ticketing system
 - Defined escalation procedures



IT Service and Support for Initial Operation

- Providing information about local services
- Dealing with local contractors
- Support in IT room conditioning
- Connectivity enablement
- Supervising network cabling installation
- Network equipment physical installation
- Computer purchasing

Telecom Service Providers in Honduras

- Cable & Wireless Business (Liberty Global) (first recommendation)
 - <https://cwcbusiness.com/>
- IFX Networks
 - <https://www.ifxnetworks.com/en/our-coverage/>
- CableColor
 - <https://cablecolor.hn/corporativo/>
- Tigo Business
 - <https://www.tigo.com.hn/empresas>
- UFINET
 - <https://www.ufinet.com/>
- Claro Corporativo
 - <https://www.claro.com.hn/empresas/>

Monthly Average Cost
100 Mbps Internet Link
USD 1,500

IT Brands for Equipment in Honduras

- Network Gear
 - Cisco. Local vendors Cisco Gold Partner.
 - Firewalls, Routers, Core Switches.
- Network Cabling, cat 6 options
 - Panduit NetKey
 - Belden
 - Leviton

IT Brands for Equipment in Honduras

- Personal Computer Hardware, options
 - HP ProDesk 400 / ProBook 440
 - Lenovo ThinkCentre M720Q / ThinkPad T14
 - Dell Optiplex 3080 / Latitude 5420
- Server Hardware, options
 - HPE Proliant DL
 - Lenovo ThinkSystem
 - Dell PowerEdge

IT Brands for Infrastructure in Honduras

- UPS, options
 - Schneider Electric/APC
 - Vertiv/Liebert
 - Eaton
- CRAC, options
 - Liebert
 - Stulz
 - Schneider Electric/Uniflair
- Fire Suppression, options
 - Sevo systems
 - Hochiki



ALTIA
SMART CITY

We are looking forward to providing service to you!

THANK YOU!



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