



WELCOME TO CLARO ENTERPRISE SOLUTIONS

AméricaMóvil | Our Parent Company

GLOBAL TELECOMMUNICATIONS | PROVEN STRENGTH

AMÉRICA MÓVIL

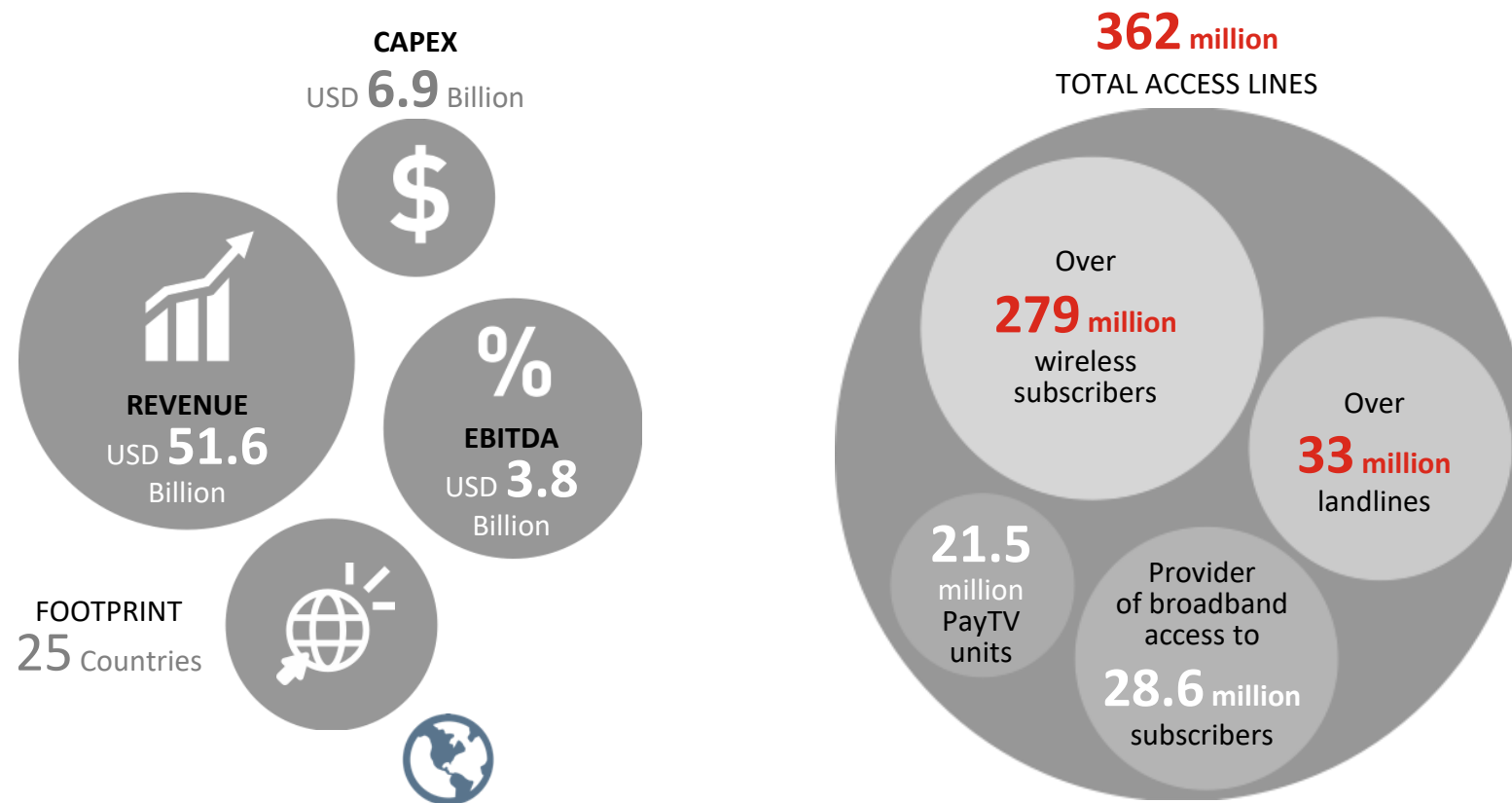
[BMV: AMX] [NYSE: AMX]

[NASDAQ: AMOV]

[LATIBEX: XAMXL],

is a leading provider of telecommunication services in 25 countries across the Americas and Europe.

América Móvil is the fourth-largest company in terms of wireless subscribers*



<http://www.synergizebiz.com>
<http://www.americamovil.com/about-us/our-company>
<http://www.americamovil.com/about-us/fact-sheet>



Evolve Together

Claro Enterprise Solutions Network

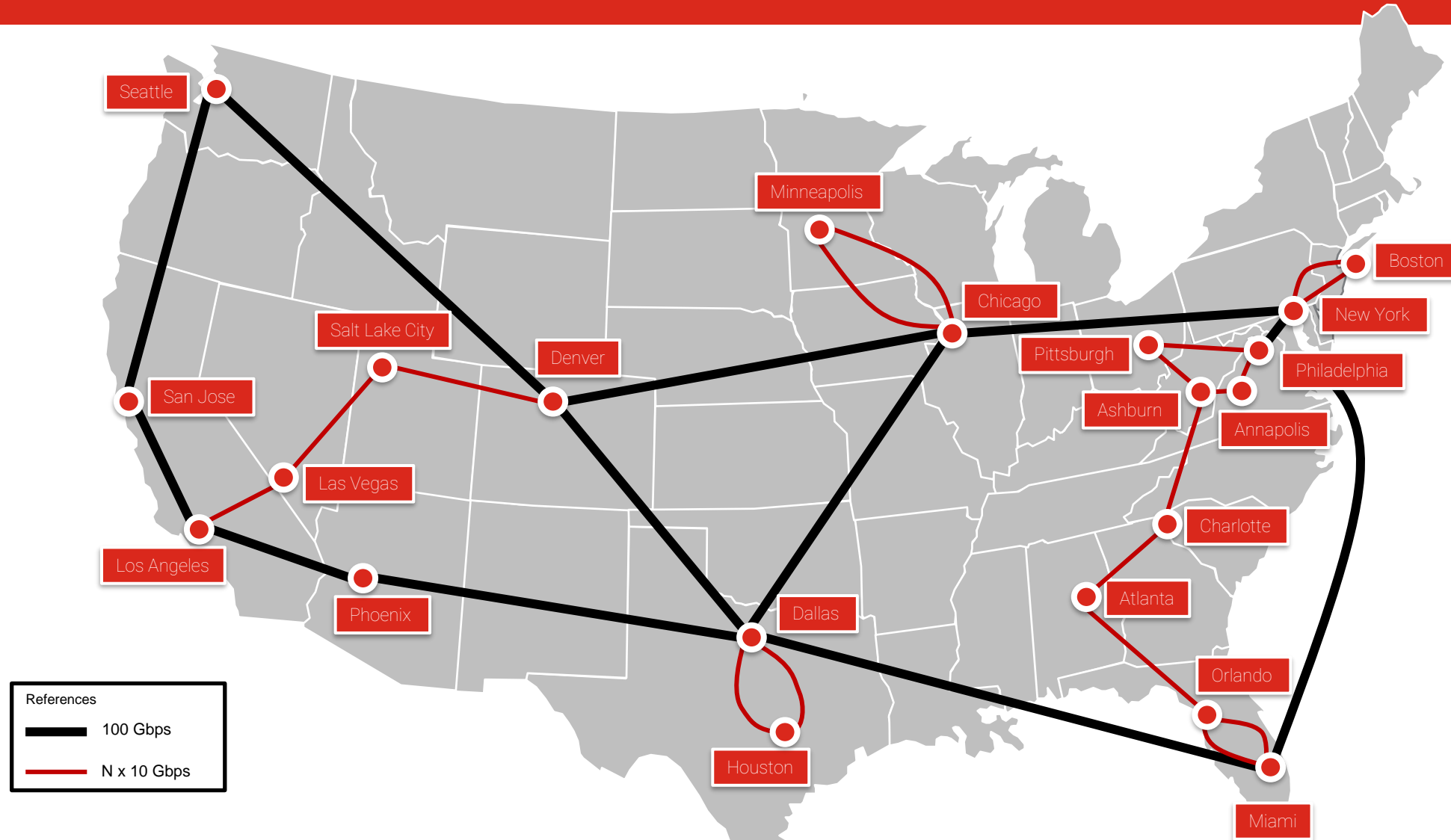


OUR GLOBAL FOOTPRINT

- Presence **25** Countries,
- **200** Plus International POPs in **47** Countries,
- **290K** Plus Fiber Optic Miles

CES US Network | MPLS & IP Transit backbone

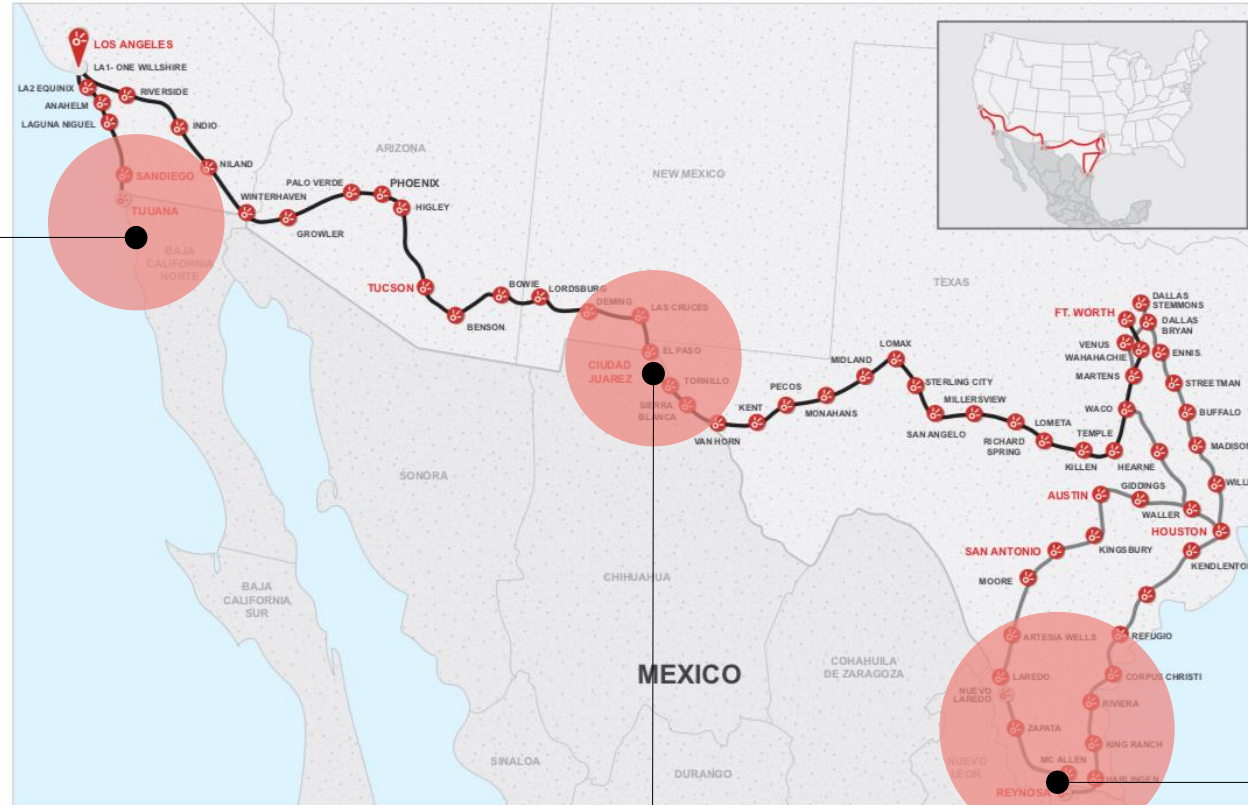
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Domestic Network | Cross border routes

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San Diego
DWDM
nx100G
nx10G



El Paso
DWDM
nx100G
nx10G

Laredo & Mc Allen
DWDM
nx100G
nx10G

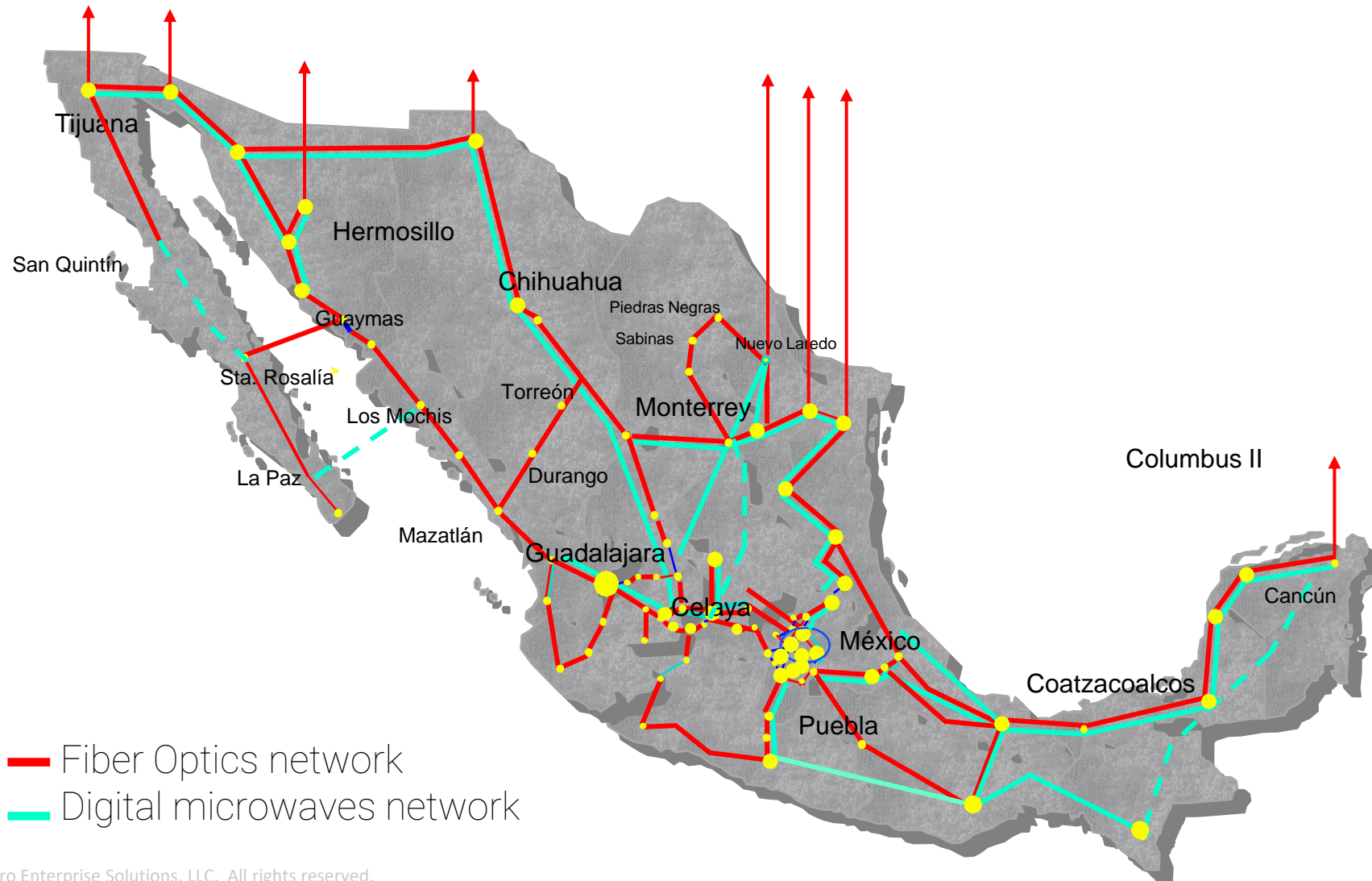
Europe footprint | Austria Telekom

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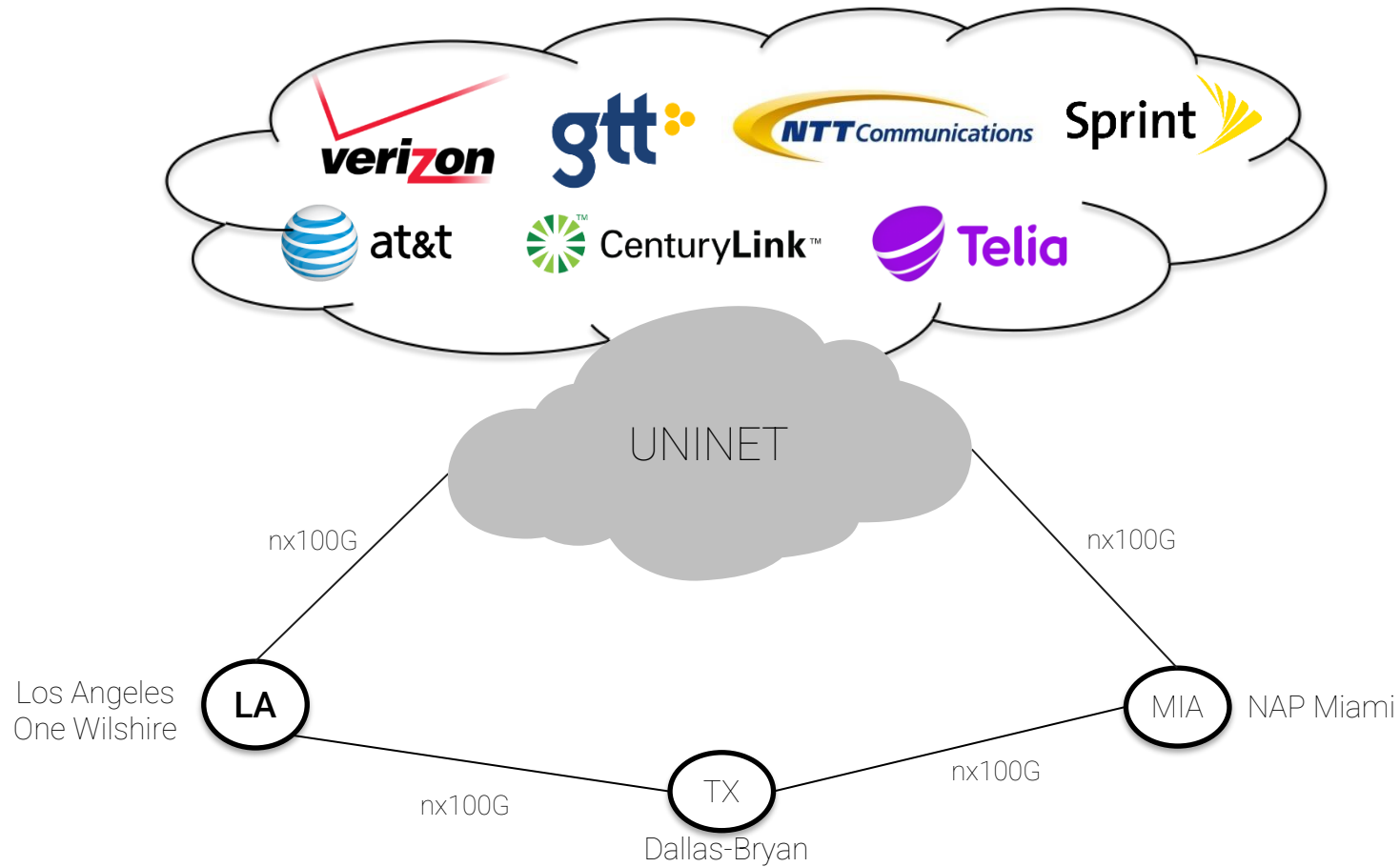
MPLS & DIA | Domestic network Mexico

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UNINET International Peering

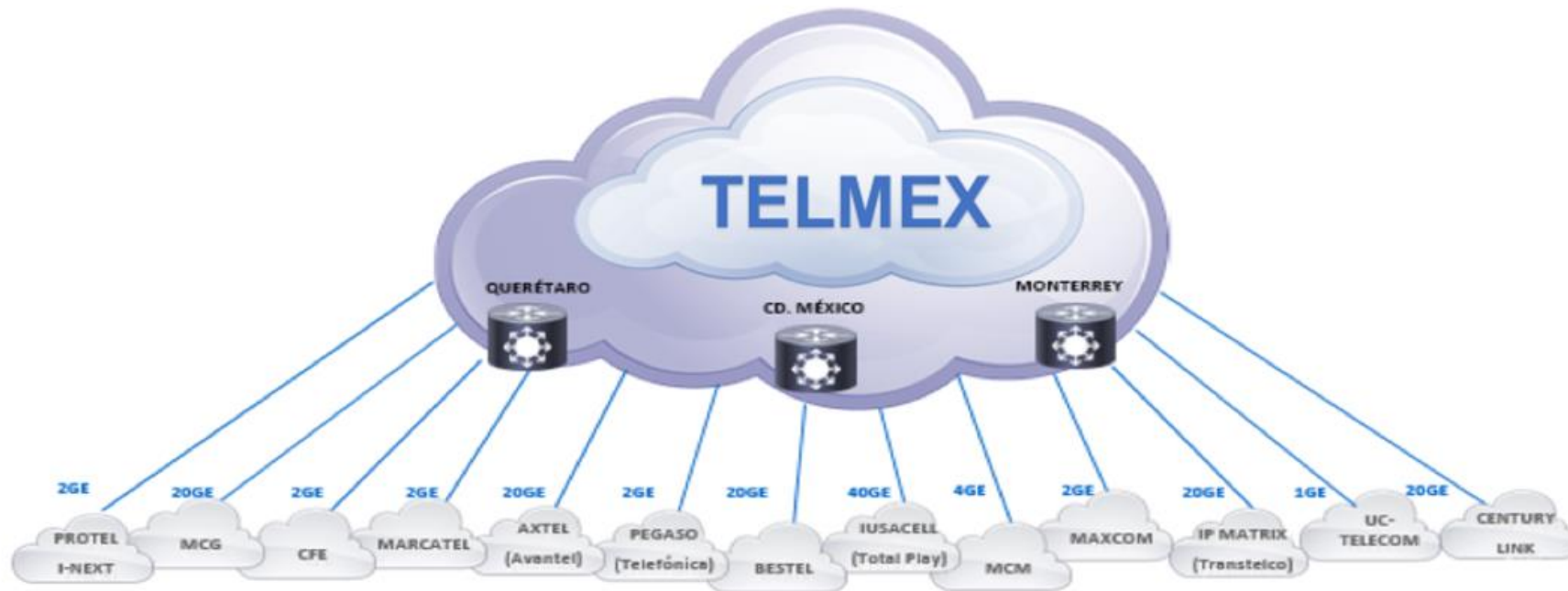
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Telmex Local Peering with other Providers

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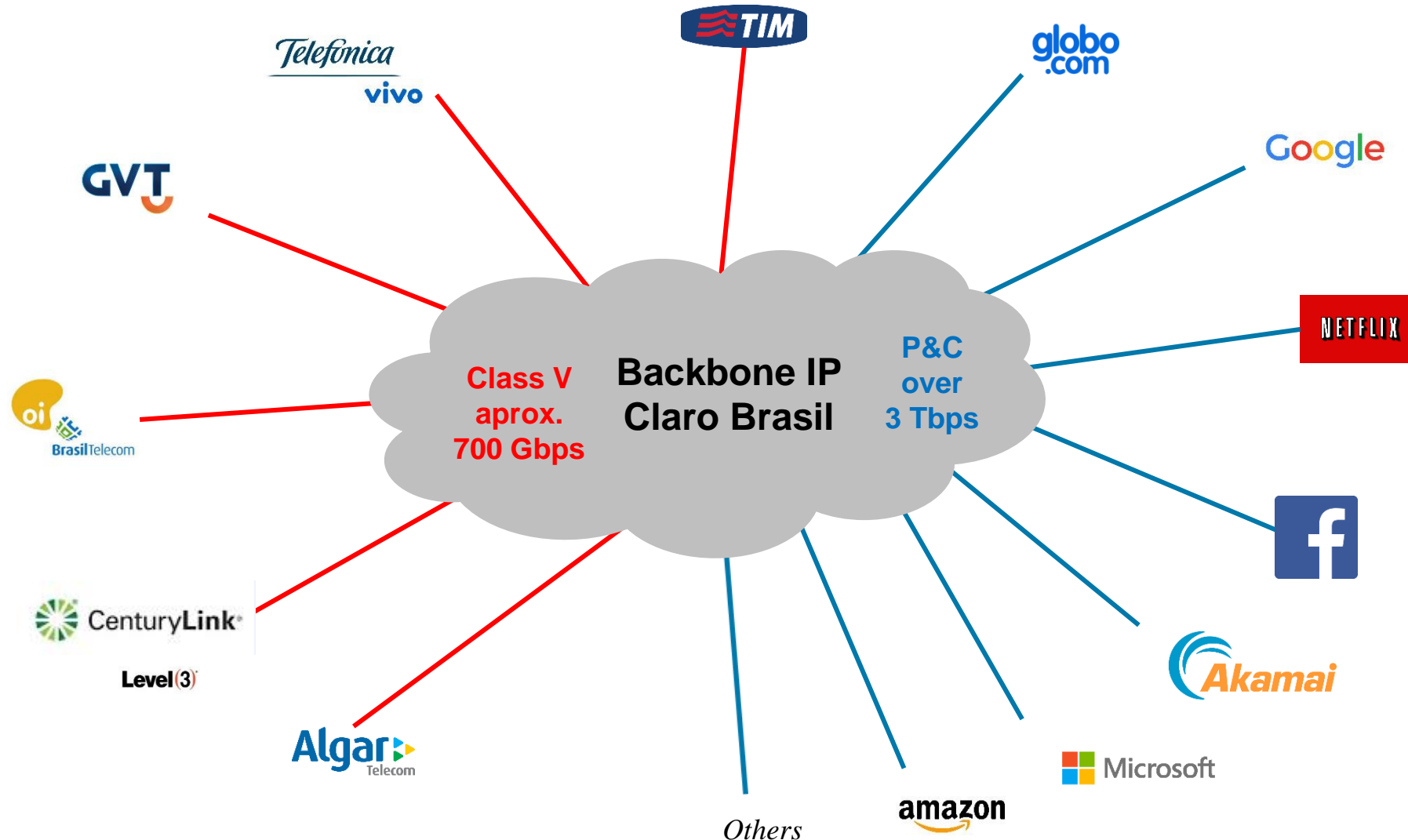
The following diagram show the Peering capacity of Telmex with local third-party providers



Telmex has ample connectivity with local 3rd party providers at each of the 3 main backbone nodes Triara Querétaro, Monterrey and Mexico City

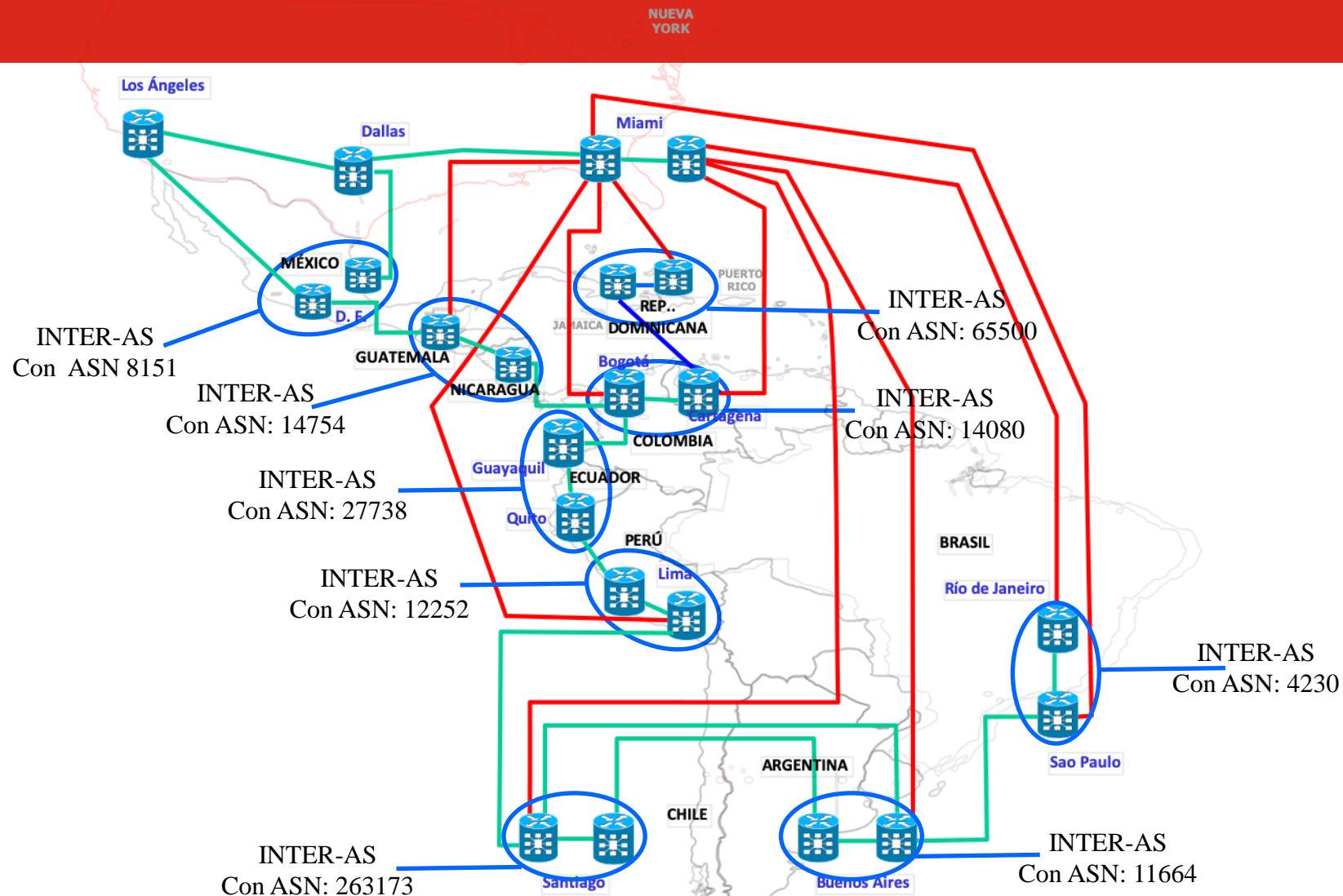
Claro Brazil peering with other Providers

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UNINET International Backbone

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100G Fiber Ring LATAM

Fiber / Terrestrial – Owner: AMX

- Colombia: Cartagena, Colombia Diagonal 21 # 37-179
- Ecuador: Guayaquil Cdla. Los Esteros Mz. 19
- Peru: Av. El Sol 2246. P.B. Asociación Agropecuaria Villa Rica - Villa El Salvador, Lima, Perú.
- Chile: Santiago, Ch. Av. Rinconada El Salto #100 P.B.Sector Caballerizas, Huechuraba
- Argentina: Buenos Aires, Ar. Av. Olleros 2770 - CP (C1426CSB) Piso 2, Sala Telco

Landing Stations AMX-1: Owner: AMX

- Rio de Janeiro.
- El Salvador.
- Fortaleza.
- Florida, Jacksonville.
- Florida, Miami/Hollywood.
- Colombia, Barranquilla.



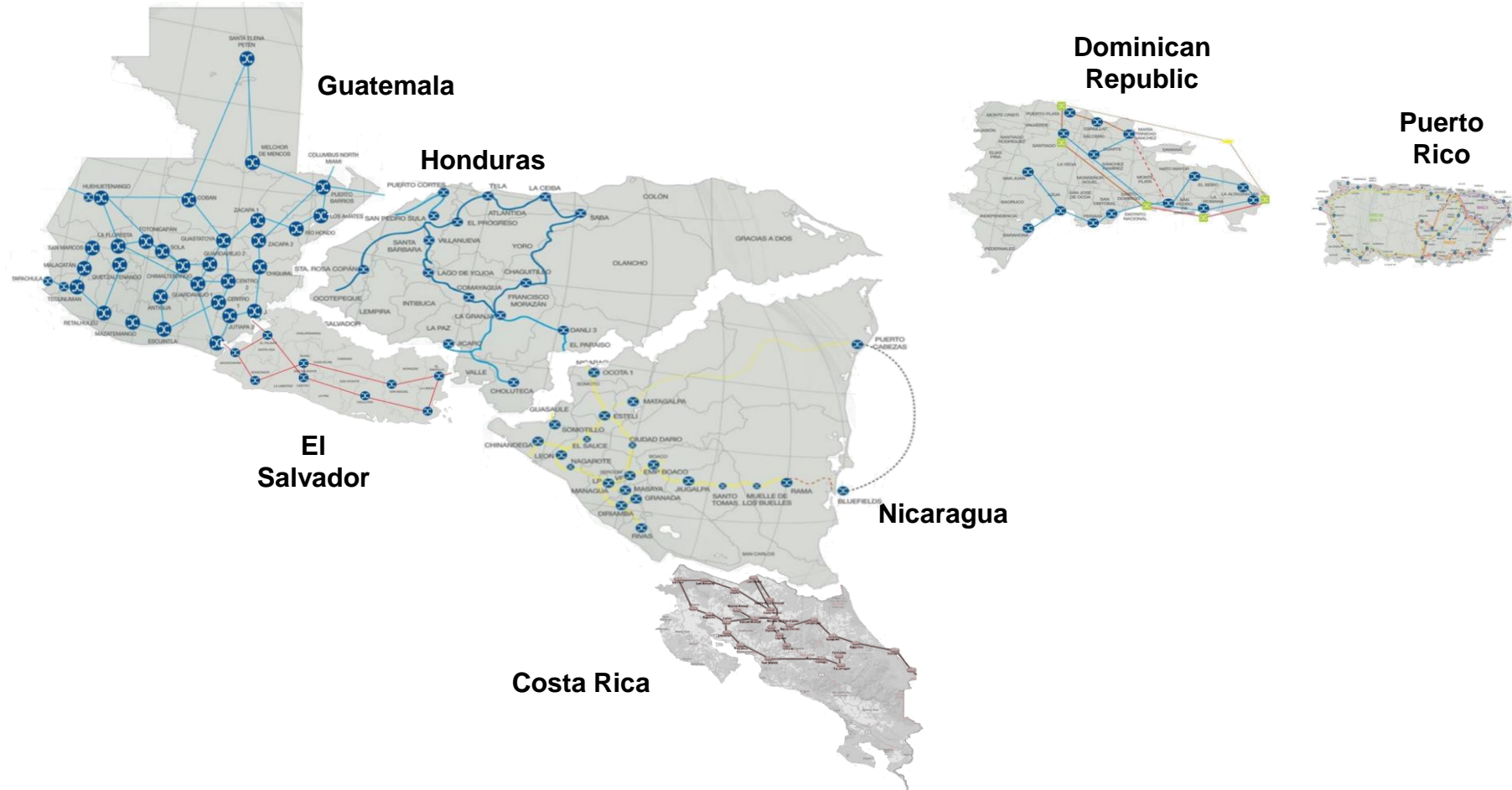
MPLS/DIA Domestic Networks in South America

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MPLS/DIA Domestic Networks in Central America and Caribbean

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Integrate, Manage & Transform

How We Make It Happen



Claro
Enterprise Solutions

Nokia Nuage SD-WAN - Standard Offer and Package Options

OPTIONS

- Dual NSG – High Availability
- LTE Backup
- Embedded Wi-Fi or Wi-Fi & LTE Backup
- Hybrid WAN (Internet – MPLS**)
- Professional Services (Installation or Consulting)



- Full Mesh or Hub & Spoke
- Access Control Lists (ACL-L3)
- L3 VPNs (Hub & Spoke, Full Mesh)
- Firewall (Level 2 and 3)
- IPSec
- Customer Reports with Basic Port Statistics and QoS
- Zero Touch Provisioning
- Basic On-boarding
- Customer Portal with Branch Visualization
- 24x7 Helpdesk & Customer Support



All Business Features

PLUS

- Legacy Interop (BGP and OSPF)
- Access Control Lists (ACL-L7)
- Network Performance Visibility
- Application Visibility and Routing*
- Internet breakout*



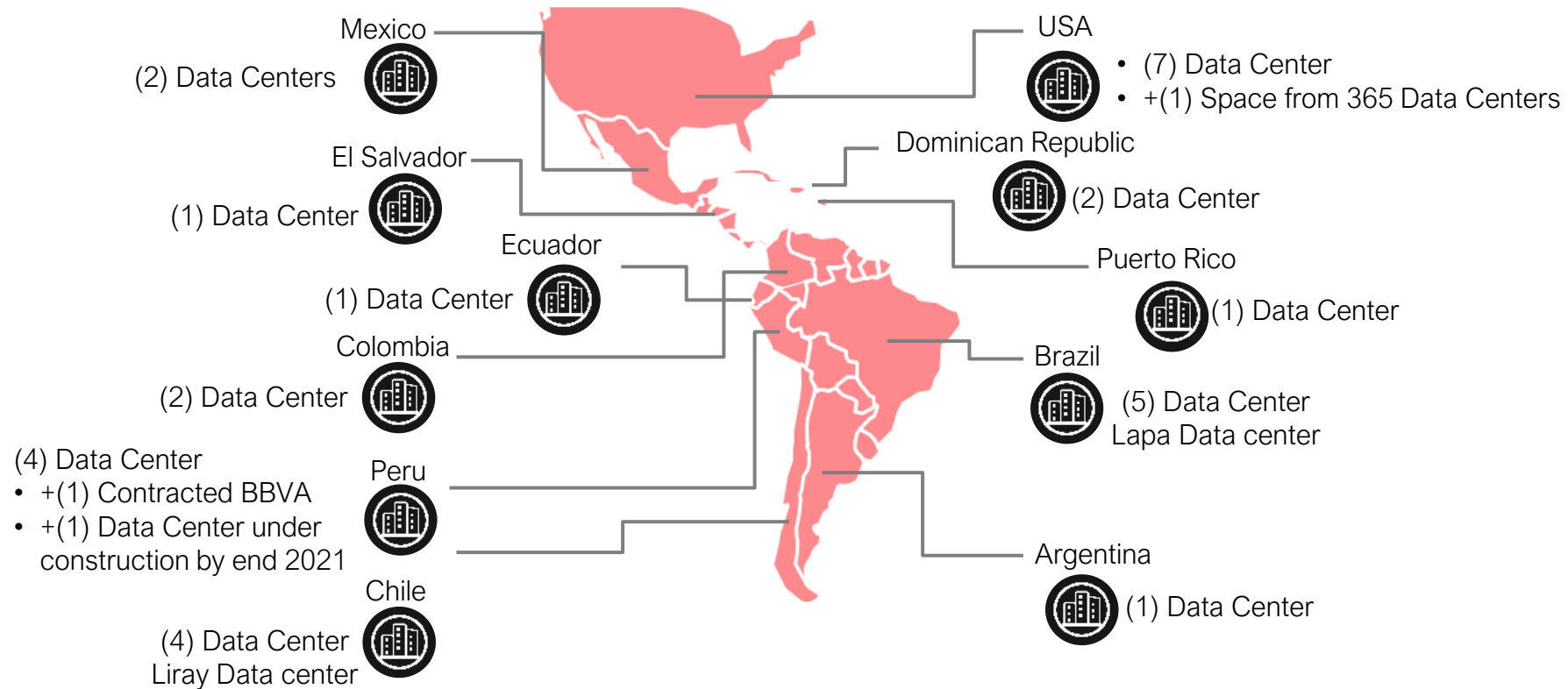
All Advanced Features

PLUS

- Public Cloud Connectivity
- IPv6
- SaaS Breakout
- Branch Hosted VNFs
- Automated security service insertion
- Context aware security analytics
- Service Function Chaining




AMX | Data Center Capabilities









 (28) Data Center locations

Note: Additional 24 Data Centers in Europe

Claro | Services Across Eastern Europe

Austria					
Belarus					
Bulgaria					
Croatia					
Rep of Macedonia					
Rep of Serbia					
Slovenia					

Mobile	
Data Internet	
Fixed Line	
Datacenters	
Pay TV	
Contact	



CES SECURITY PORTFOLIO

Managed Perimeter Security

Monitoring and management of premise-based security infrastructure integrating **Fortinet, Palo Alto Networks, Checkpoint and Cisco** appliances.



Customer Benefits

- ✓ Access to cybersecurity expertise
- ✓ Mature Change Management and Incident Response processes
- ✓ Unlimited Changes, 24x7x365
- ✓ Proactive Monitoring
- ✓ If CES provides HW, we lead with Fortinet, but can manage PAN, CHK, CSCO

Cyber Intelligence Services

Provides intelligence to enterprise customers on activities of malicious actors in the deep web, social media and app stores against a particular brand or brands.



Customer Benefits

- ✓ Threat Intelligence helps answer WHO, WHAT, WHERE, WHEN, HOW
- ✓ Identifies threats before they occur as well as unknown successful breaches

Software Defined Perimeter

Practical approach to implement Zero Trust model allowing businesses to enable a **granular and context-dependent access control**.



Customer Benefits

- ✓ Implements context-based access controls for remote users
- ✓ Disables visibility and access to non-authorized applications and servers
- ✓ Reduces need of VPN and NACs

Pen Testing

Offers the **identification, prioritization and mitigation recommendations** on SW vulnerabilities as well as intelligence about **methods and evidence** collected through ethical exploitation



Customer Benefits

- ✓ Identifies software vulnerabilities
- ✓ Identifies modus operandi, initial vectors and propagation techniques used to exploit vulnerabilities
- ✓ Gain visibility on the data that could be extracted
- ✓ Fundamental to guide investments on security upgrades
- ✓ Fulfills compliance requirements

Vulnerability Analysis

Offers the **identification, prioritization and mitigation recommendations** on SW vulnerabilities.



Customer Benefits

- ✓ Buy only what you need – granular offerings per IP address/asset
- ✓ Access to cybersecurity expertise and mitigation recommendations
- ✓ Flexible, self-provisioning and streamlined
- ✓ Compliance requirements – PCI ASV (Approved Scanning Vendor)

Cloud Security

Security stack in the cloud through platform.



Customer Benefits

- ✓ Get access to state-of-the-art Security As-A-Service platform
- ✓ Completely modular
- ✓ Platform checks ALL traffic, including encrypted HTTPS

Awareness Training

Computer-based training programs and platform to manage phishing campaigns.



Customer Benefits

- ✓ Get access to premium Computer-Based-Training platform
- ✓ Perform your own phishing campaigns and train based on outcomes
- ✓ Phishing is the main technique for most successful cyber attacks

Application Security

Zero Trust platform at the application level of granularity.



Customer Benefits

- ✓ Get access to sophisticated platform to apply Zero Trust at the most granular level: Application data flows
- ✓ Detect Zero-Day threats and file-less malware
- ✓ Optimize threat modeling process (applicable if you are moving applications to the cloud)

OUR DIFFERENTIATORS

Evolve Together

- Specialized support from over 600 cyber-analyst with experience on global security threats
- Operation with own methodology based on international standards of security and IT
- Managing over 20k devices across 18 countries
- Over 1,200 certifications (CISA, CISM, CISSP, CCNA, ITIL, ISO27001, GCFA, CHFI, etc)



wow!

Security Technology Partnerships



**INTERNET
OF THINGS &
OVER THE TOP
SOLUTIONS**

Solving critical
business problems

RETAIL AND HOSPITALITY SOLUTIONS

TEMPERATURE MONITORING TO IMPROVE
RESTAURANT OPERATIONS AND FOOD SAFETY

FLEET MANAGEMENT AND LOCATION
MONITORING FOR TRANSPORTATION
AND LOGISTICS

ENERGY METERING AND SMART CITY
INFRASTRUCTURE

DEPLOY THE TIP OF THE SPEAR OF THE
INTERNET OF THINGS

FLEET MANAGEMENT-E

COVERS ALL TYPES OF FLEETS



- DISTRIBUTION AND FREIGHT
- FOOD AND BEVERAGE
- FIELD SERVICES
- PASSENGER TRANSIT
- CONSTRUCTION
- UTILITIES
- LOCAL GOVERNMENT
- EDUCATION
- OIL AND GAS
- And more...

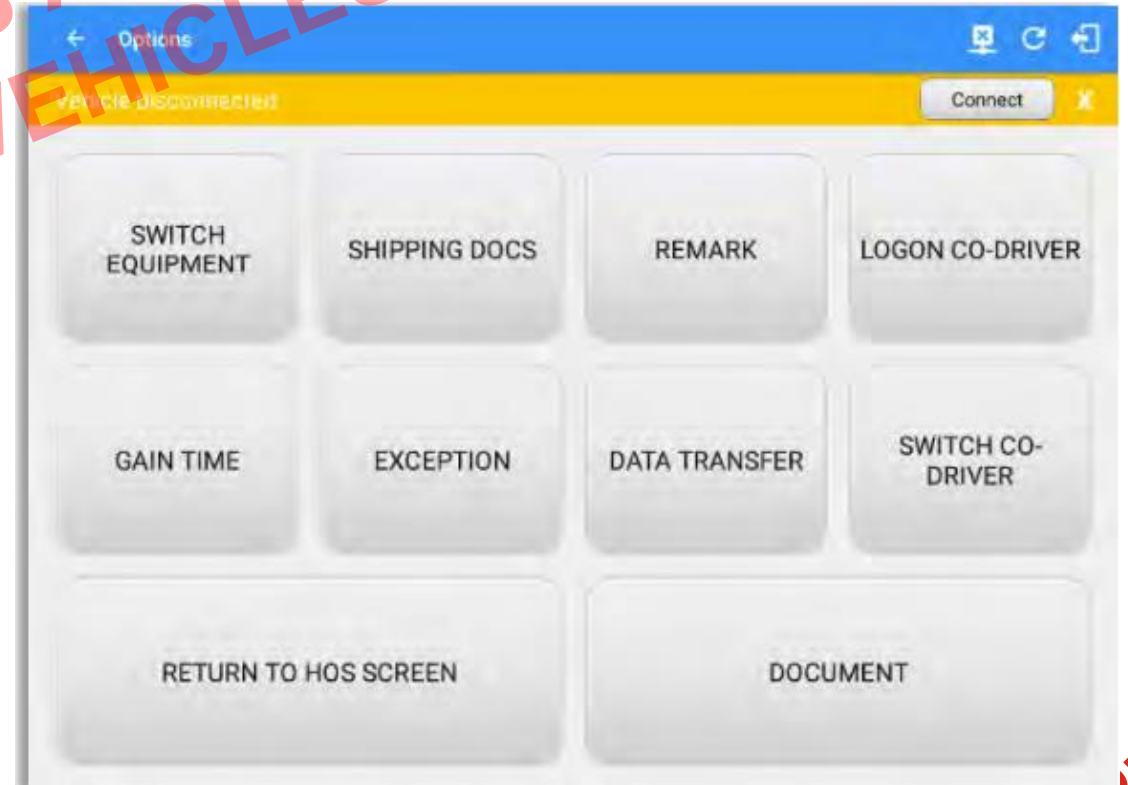
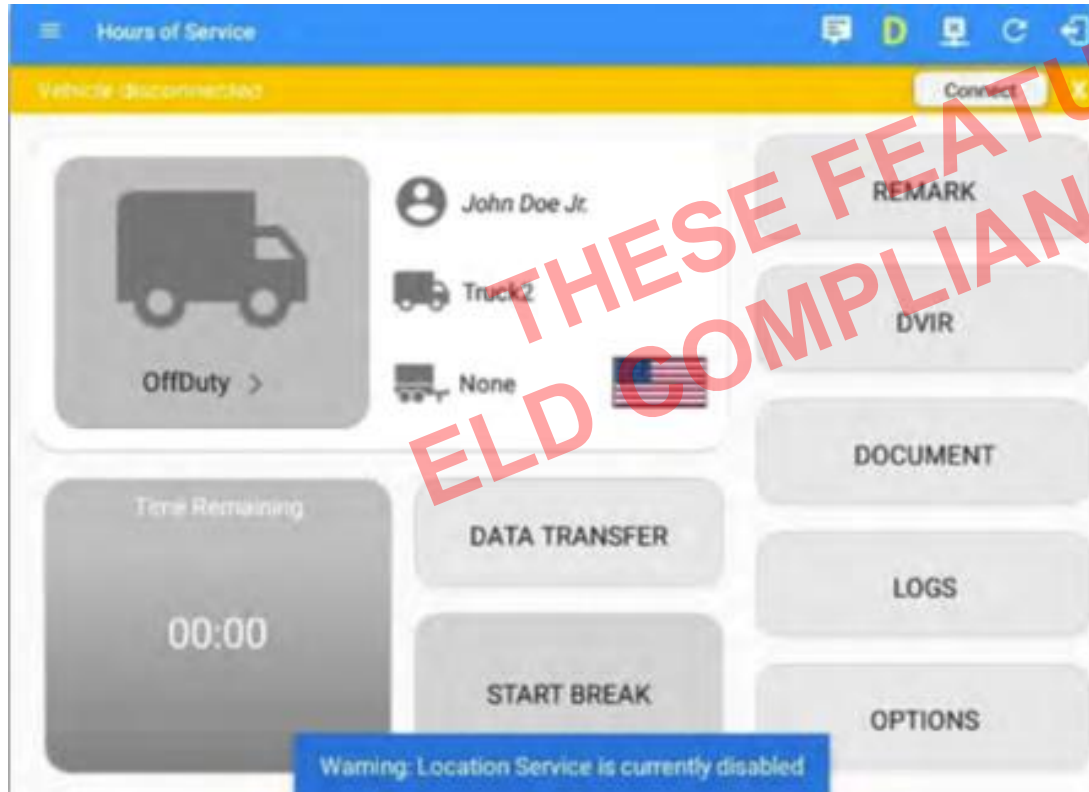


FLEET MANAGEMENT-E for ELD Compliance

FEATURES TO SUPPORT ELD

HOS User Interface

- Can be accessed from any mobile device or tablet



THESE FEATURES APPLY TO ELD COMPLIANCE VEHICLES ONLY

FLEET MANAGEMENT

THE SOLUTION

Dedicated Device

- Plug and Play – OBDII installs in the Maintenance Port
- Hardwired – installs under the hood or dash
 - IP66 rated)
 - No engine data
 - Option for external Inputs (Example: Snow-Plows, Tow Trucks, etc.)

Optional Camera Support

- Dashcam
- Dashcam + Drivercam



OBDII DEVICE



HARDWIRED DEVICE



DASHCAM



DASHCAM +
DRIVERCAM

CLARO FUEL MONITORING & RISK CONTROL SOLUTION

Gasoline Stations & Fuel Depots



The Solution

Gas station Owner or Franchisee

- Real time visibility of the operation of the gas station
- Real time visibility of Inventory
- Automatic Reconciliation
- Consolidated reporting by station or region or all stations

The Benefits

Gas station Owner or Franchisee Value

Inventory Management

- Precision readings directly from the tank sensor
- Avoid carrying excess inventory, which leads to higher cost
- Avoid shortages of inventory, which leads to missed sales

Fraud Prevention

- Eliminate manual reconciliation
- Audit receipt amount against actual inventory
- Report excessive water
- Analyze Inventory vs. amounts dispensed and expose potential calibration issues

Audit Visibility

- If power fails all data is recovered upon power becoming available
- If Internet connectivity fails all information is synchronized when it becomes available

Real time Analytics capability

- Average sales by period (day, week, month, etc.)
- Sales Patterns and Trends
- Geographic comparison of multiple stations in real-time
- Consolidated reporting
- Ability to do forecasting
- Ability to manage supply and demand for multiple gasoline stations

Target Market

Retail and Commercial Applications

- Gasoline Stations
- Fuel Depots
- Mining
- Construction
- Cement
- Aggregate
- Agriculture
- Port Operators
- Airport Operators

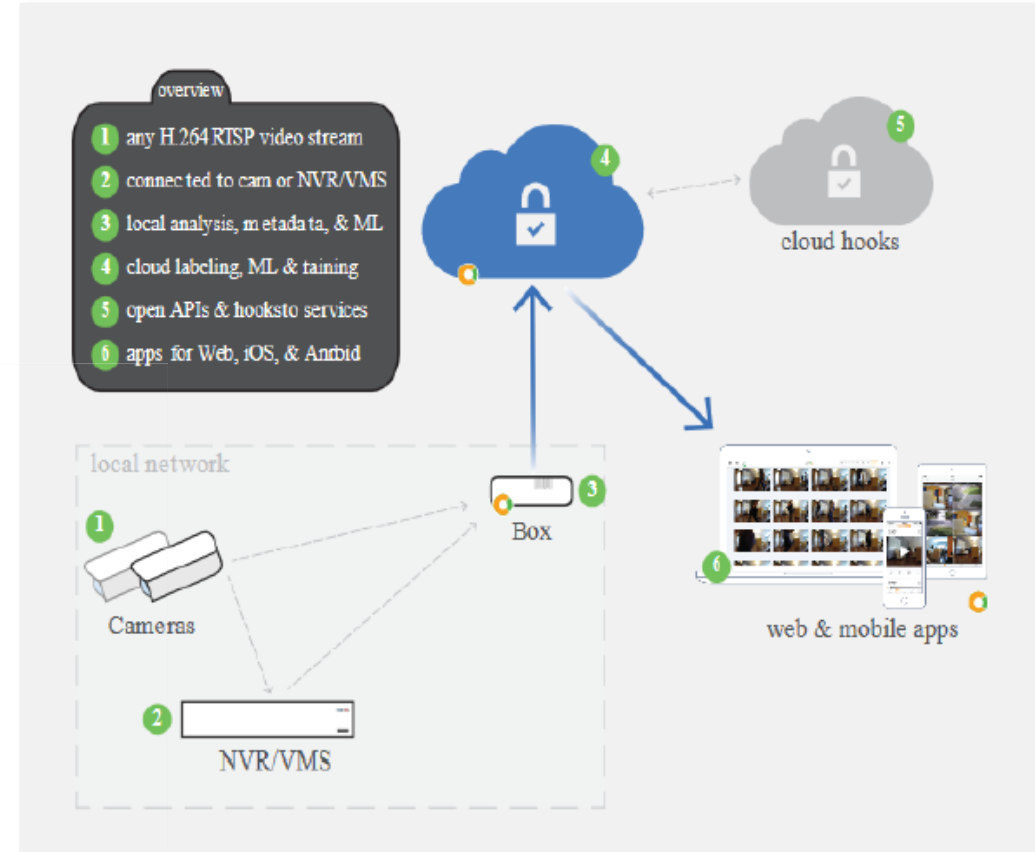
All types of Storage Tanks



VIDEO SURVEILLANCE AS A SERVICE

- **Any Network Camera, DVR, VMS or Computer**
- **Intelligent Monitoring System**
- **Real time**
 - Video Capture on Specific Events
 - Alerts
 - Local Video Gateway Analysis using AI
- **The Platform Ranks and Indexes Events**
 - Enables real-time Search
 - Enables real-time Alerts
 - Additional analysis and workflows based on the activity observed in the event

LEVERAGING ARTIFICIAL INTELLIGENCE



wow!

RTLS+

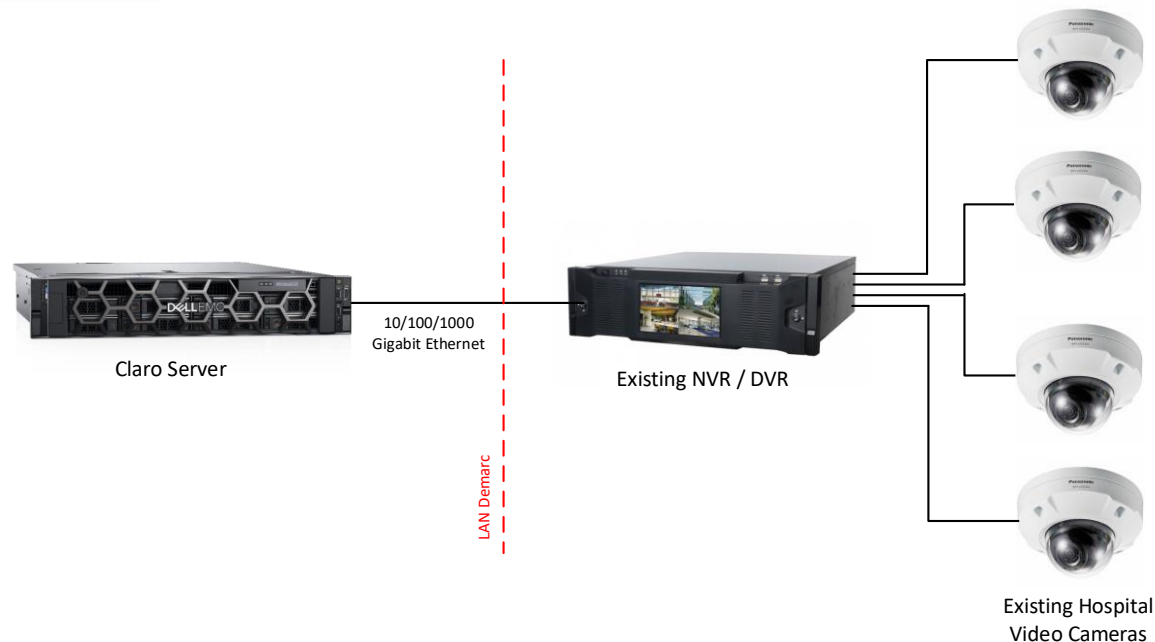
Mobile Medical Equipment Asset Management



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Video Analytics using Artificial Intelligence & Machine Learning

- **Leverage existing Video Surveillance Infrastructure**
 - Connects to existing Network or Digital Video Recorder
- **Video AI / ML Capabilities**
 - Track assets in movement
 - PPE Detection
 - Fall Detection
 - Fire Detection
 - Vehicle Detection
 - License Plate Recognition
 - Blocked Entrance / Exit area Detection
- **Support for Geo-fencing (asset zoning)**
 - Generates Alerts when critical assets enter or exit a pre-defined area



Pinpoint Critical Hospital Asset Location

- **Tracker Beacons communicate with Tracking Stations**
 - Second generation blue tooth(BTLE) - Self-calibrating tracking stations and Beacons
 - 5-year battery life
 - Location data is sent to the Cloud
- **Support for Geo-fencing (asset zoning)**
 - Generate alerts when they enter or exit a pre-defined Geofence
 - Real time Identification of a device's pinpoint actual location



UNIQUE DIFFERENTIATOR



PORTABLE X-RAY MACHINE
 10/17/20 10:05:45 AM
 Location: Diagnostic Imaging
 Room: 3
 S/N ABCQWE12345
 Last Disinfected: 10/16/20 5:30 pm

Target Market USA



Mobile Connectivity Plus as a holistic solution

MOBILE CONNECTIVITY PLUS solution helps IoT Systems to **overcome** those challenges making IoT easy



GLOBAL COVERAGE

Access agreements with 800+ networks worldwide.
Support for data on 2G/ 3G/ 4G/ LTE/ LTE-M.
Local IMSI profiles in Brazil, China and USA



CONNECTIVITY MANAGEMENT

Monitor, manage and control your devices from a single pane of glass through a cloud management platform with API orchestration.



SECURE ACCESS

Maintain complete control over service quality, privacy and regulation with secure data traffic routing and virtual private networks.



24/7 SUPPORT

Single Point of Contact for Service Support

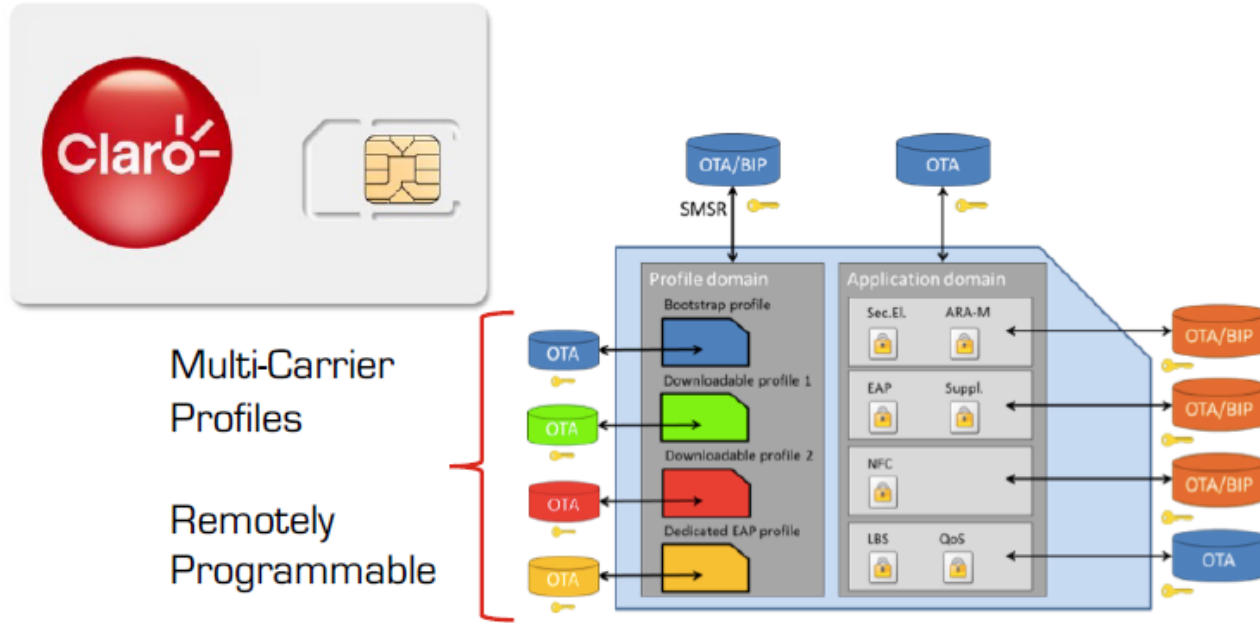


GLOBAL SIMCARD

Single simcard for all geographies
Support different form factors 2FF/3FF/4FF/VQFN8
White label solutions are also available (conditions apply)



MOBILE CONNECTIVITY PLUS



Claro Solution

It is a carrier class wireless connectivity Platform that provides [Global Multi-Carrier IoT data-only access services](#) using Smart SIM/eSIM technology. This Platform has the ability to hold multiple operator agreements on a single eSIM card, fully managed under one contract by CES for you!

CES eSIM can be remotely managed and reprogrammed for different carriers as required thru the CES eSIM portal

Benefits

Data Utilization Billing

Claro offers the most flexible plans in the industry customized to your specific needs. Our basic pricing is usage per GB/Month by country based on actual utilization, but we can offer pricing to TB levels and above to satisfy the needs of large data consumption devices. We also can discuss pooling options by country or territory.

Custom APN, VPN and Routing

If needed CES will work with your technical personnel to design and implement custom networking options that will guarantee the security of your data.

These options can include [APNs](#), [VPNs](#), [Static IPs](#) etc.

Features take configuration by our network vendor

Per eSIM Price

Depends on SIM Format, quantity and delivery location. Includes the physical [eSIM in ANY format](#) and registration with the IoT Management Platform

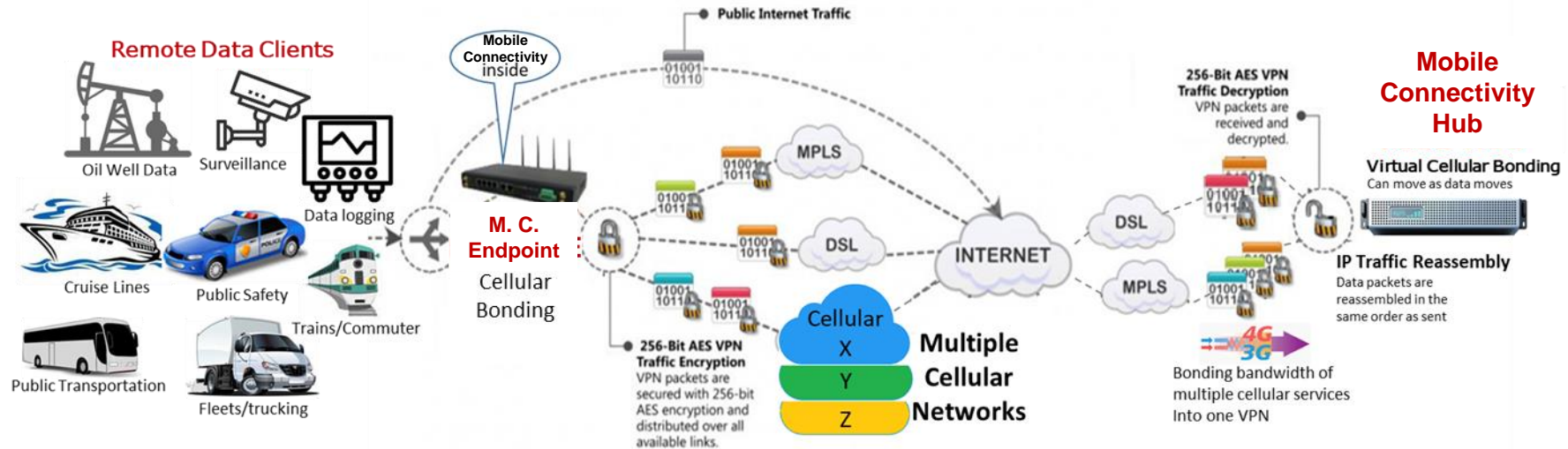


Evolve Together

Mobile Connectivity Endpoint and Hub

Mobile Connectivity Endpoints and Hub

Data Connectivity thru Cellular

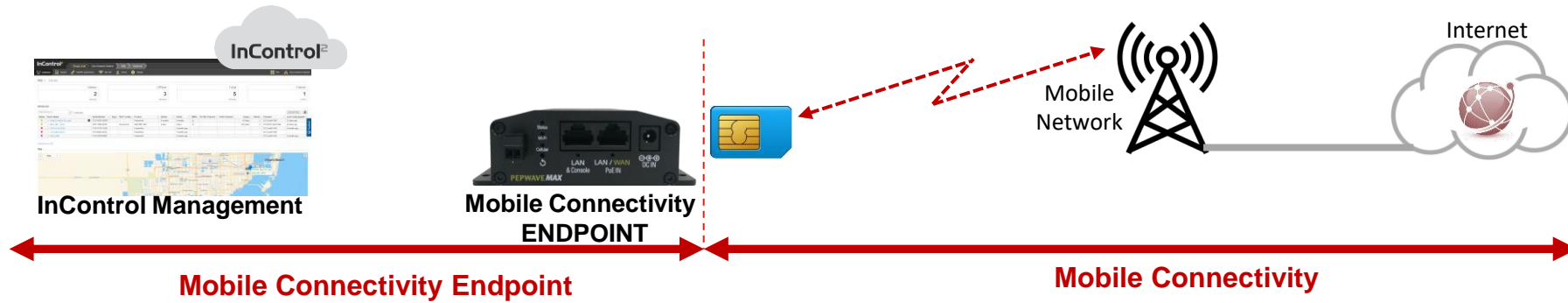


Mobile Connectivity Endpoints for all locations and bandwidths

- Mobile Connectivity Endpoint device provides connectivity thru one or more cellular connections
- Connection to one or more cellular carriers, Mobile Connectivity eSIMs auto-select best signal
- Providing network diversity and better availability
- Options of one, two, four and up to 18 (active) SIMs per CPE device.
- Cellular Bonding of 2 to 18 SIMs into one large VPN, load balance, & data encryption 256 bit-AES
- Full suit of router functionality, QoS, redundancy, traffic shaping, etc.
- WiFi hotspot and GPS location/geo-fencing available



Mobile Connectivity Endpoint + Mobile Connectivity – Full connectivity Solution



Mobile Connectivity Endpoint and Mobile Connectivity

Mobile Connectivity Endpoint provides Remote cellular connectivity thru Claro **Mobile Connectivity data only cellular services**

- Improved Network redundancy by using diverse mobile networks.
- Possibility to use multiple active sims to aggregate bandwidth.
- Wi-Fi hotspot and GPS Tracking and Geo-fence available per device.
- Standard router functionality and QoS capabilities
- 256-Bit AES traffic encryption available for secure VPNs
- Connectivity thru diverse cellular networks for mission critical applications

Mobile Connectivity Endpoint Product Family

Mobile Connectivity Endpoints



Mobile Connectivity Endpoint UNO MINI

- Industrial-Grade M2M 4G LTE Router
- WAN: 1 Active LTE modem + 1 Stand-by LTE SIM slot
- LAN: 1 FastEthernet + WIFI (2.4Ghz up to 150Mbps)
- Automatic WAN Failover
- 1x FastEthernet WAN
- 802.11bgn Wi-Fi AP
- GPS
- Full antenna set



Mobile Connectivity Endpoint DUO

- Industrial-Grade Dual SIM M2M 4G LTE Router
- WAN: 2 Active LTE modems + 2 Stand-by LTE SIM slot
- LAN: 1 GigaEthernet + WIFI (2.4Ghz or 5GHz)
- 1x GigaEthernet WAN
- 802.11n Wi-Fi AP
- Multi-Cellular Bandwidth Bonding capabilities (requires Mobile Connectivity HUB)
- SpeedFusion Bandwidth/VPN Bonding (requires Mobile Connectivity HUB)
- GPS
- Full Antenna Set



Mobile Connectivity Endpoint QUAD

- Industrial-Grade Quad SIM M2M 4G LTE Router
- WAN: 4 Active LTE modems + 4 Stand-by LTE SIM slot
- LAN: 8 GigaEthernet + WIFI (2.4Ghz or 5GHz)
- 2x GigaEthernet WAN
- 802.11 a/b/g/n Wi-Fi AP
- Multi-Cellular Bandwidth Bonding capabilities (requires Mobile Connectivity HUB)
- SpeedFusion Bandwidth/VPN Bonding (requires Mobile Connectivity HUB)
- GPS
- Full Antenna Set

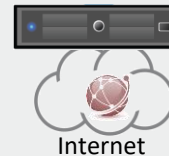
Mobile Connectivity Hub

Mob. Connectivity HUB Software Licence



- Hub 5 peers
- Hub 20 peers
- Hub 100 peers
- Hub 500 peers

Hosted Appliance For Mob. Connectivity HUB



- Customer Hosted
- Hosted with 200Mbps Internet
- Hosted with 500Mbps Internet
- Hosted with 1Gbps Internet

SERVICE MANAGEMENT center

Customer Support Levels

Evolve Together

- 24x7x365 Support
- Bi-lingual: English & Spanish
- Three Tiers of Technical Support
- Incident Management and Troubleshooting
- Platform Administration
- Customer Portal
- Proactive Monitoring and Support
- Built-in Alerts and Ticketing
- Engineers with certifications in Six-Sigma, Cisco CCENT & CCNA, Microsoft MCSA, CompTIA A+, Network+, Server+ & Security+

Network
Monitoring



- World Class Customer Assurance Experience
- Advanced Reporting and Performance Metrics
- Specialized in all industry segments and cross trained in all products and disciplines
- Single point of contact (SPOC) for service orders, installation, billing, management, etc.
- Implementation and project management using PMI, ITIL methodologies and best practices

Customer Care &
Service
Management



Thank You



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