RTC Profile



Regional Telecom Consult Services LLC (RTC)

Connectivity & Digital Transformation Partner

RTC Brief

Established in 2007

Middle East & HQ

Abu Dhabi: 12th Floor, MQ Tower, Muroor Road, Abu Dhabi, UAE
Dubai: 102, Ahli House 1, Al Nahda-2, Dubai, UAE

North America

#1900, 700-2 Street Calgary, Alberta, Canada, Post Code- T2P2W

- Internet of Things
- Data Analytics
- Telecom
- Core Networks
- ICT
- SW & PROCESS AUTOMATION

Project Reference in 12 Countries in 4 Regions and 3 continents.

250+ Successfull Full Turnkey.

100+ Satified customers.

Part of MQ Holding Group, a conglomerate with diversified business establishments since 1985. Group comprises of 5000+ employees to deliver the best tailored products & services to meet the expectation of our clients.

Industries That We Serve

Healthcare | Hospitality | Oil & Gas | Engineering | Telecom | Agriculture | Smart City

Quality That We Behold

QRS ISO 9001 : 2015 CERTIFIED
QRS ISO 14001 : 2015 CERTIFIED
QRS ISO 45001:2018 CERTIFIED
SCB (E) ASCB(E) Accrediting Certifying Bodies.

MQ HOLDING GROUP LLC



Healthcare | Hospitality | Oil & Gas | Engineering | Telecom | Agriculture | Smart City

MQ Holding Group is one of the UAE's leading holding companies and diversified conglomerate with business spanning diverse industries like Oil and Gas, Agriculture, Food, Telecom, Facility Management and other sectors. Since our inception in 1985, we have been contributing to the growth of the emerging industries in the UAE. It has directly benefited the local economy, environment, and society. We leverage the strength of our 5000+ employees to deliver the best tailored services that meet the needs of our clients.

Under the visionary leadership of H.E Musallam Al Qubaisi and Saeed Al Qubaisi, we continue to prosper and diversify our business operations further. MQ Holding Group remains deeply committed to ensuring the protection and enhancement of the communities in which it operates. We have initiated programs to promote environmental sustainability, health awareness and local employment

- STAR SERVICES LLC
- REGIONAL TELECOM CONSULT SERVICES LLC
- STAR SECURITY SERVICES LLC
- KRAH EMIRATES PIPES MANUFACTURING COMPANY LLC
- STAR SERVICES FACILITIES MANAGEMENT LLC
- M Q PEARL ENGINEERING LLC

RTC PORTFOLIO

SI & DATA ANALYTICS
- ✓ Data Consulting Services
- ✓ Software Solutions
- ✓ Data Analytics Services
- ✓ Process Automation
- ✓ Customer Experience Mgt.

EMERGING TECHNOLOGIES
- ✓ Technology Consulting
- ✓ IOT Solutioning & Testing
- ✓ IOT Platform delivery
- ✓ AI / Process Automation
- ✓ Green Energy

TELECOM
- ✓ Telecom Roll Out Services
- ✓ Quality Audit / Testing Services
- ✓ Design, Planning & Optimization
- ✓ Telecom Managed Services
- ✓ Maintenance Services

TO Customers
- ✓ Technology Consulting
- ✓ End to End Project delivery Mgt.
- ✓ One stop shop for Wireless Telecom Projects
- ✓ Project Auditing and testing

OUR BUSINESS MODEL
We have developed 2-pronged model

To Partners
- ✓ In region engagement support
- ✓ Solutions Consulting Support
- ✓ Solutions design & Architecture
- ✓ Trunkey Project Delivery Mgt.

RTC PORTFOLIO

	UAE										QATAR/SAUDI/OMAN/KUWAIT	
OFFERINGS	IOT/DMP Platform											
	AAA Solution	Test & Mesurment		Test & Mesurment								
	IBS FTK Supply & Services	IP Traffic Management		Site Acquisition						Material Supply RF Boosters & Repeaters	Material Supply RF Boosters & Repeaters	Material Supply RF Products - Tetra
	Material Supply RF Products	Material Supply (Fiber Accessories		RF Design & Site Validation		Material Supply RF Products	Material Supply (Fiber Cable)			Material Supply RF Products	Material Supply RF Products	Test & Mesurment
	Site Audit Services	Material Supply (Fiber Cable)	Smartphone Testing & Benchmarking	Implementation & Integration	Process Automation & Analytics	TETRA FTK Service & Supply	Leaky Feeder	Material Supply (Fiber Cable)	Material Supply (Fiber Cable)	Material Supply (Fiber Cable)	Material Supply (Fiber Cable)	LTE FTK Expansion
CUSOTMER	etisalat e&	etisalat e&	TDRA	du, NOKIA, HUAWEI	KONE	Dubai Airports, ABU DHABI AIRPORTS	dewa, Etihad Water & Electricity	DUBAI MUNICIPALITY, SEWA	Abu Dhabi Distribution Co.	ADNOC	aramco, PEARL PETROLEUM, MINISTRY OF OIL, Basrah Gas Company	ooredoo, QatarEnergy
PARTNER	Davra, alepo, COMMSCOPE	kaelus, SANDVINE, R&M, STL	SwissQual	kaelus, iBwave, KEYSIGHT TECHNOLOGIES, infovista	Inhouse Developed Prodcut	ANIXTER, ATLAS TELECOM, THALES, COMMSCOPE	aasa, COMMSCOPE	R&M, DANWAY	LS Cable, R&M	EMIRCOM, ANIXTER, COMMSCOPE	HiBOOST, COMMSCOPE	COMMSCOPE, kaelus

Our Customers













































Technology Partners





























Telco Solutions

Inbuilding Solutions (IBS)

Repeater and Booster Solutions

Wireless Broadband

4G/5G ORAN Networks

Telecom Quality Audit Services

Mobile Network Solutions for Specialized Applications (Private, Rural, Hard to Reach,..)

RTC- IBS Expertise

Nationwide IBS FTK Rollout Expertise

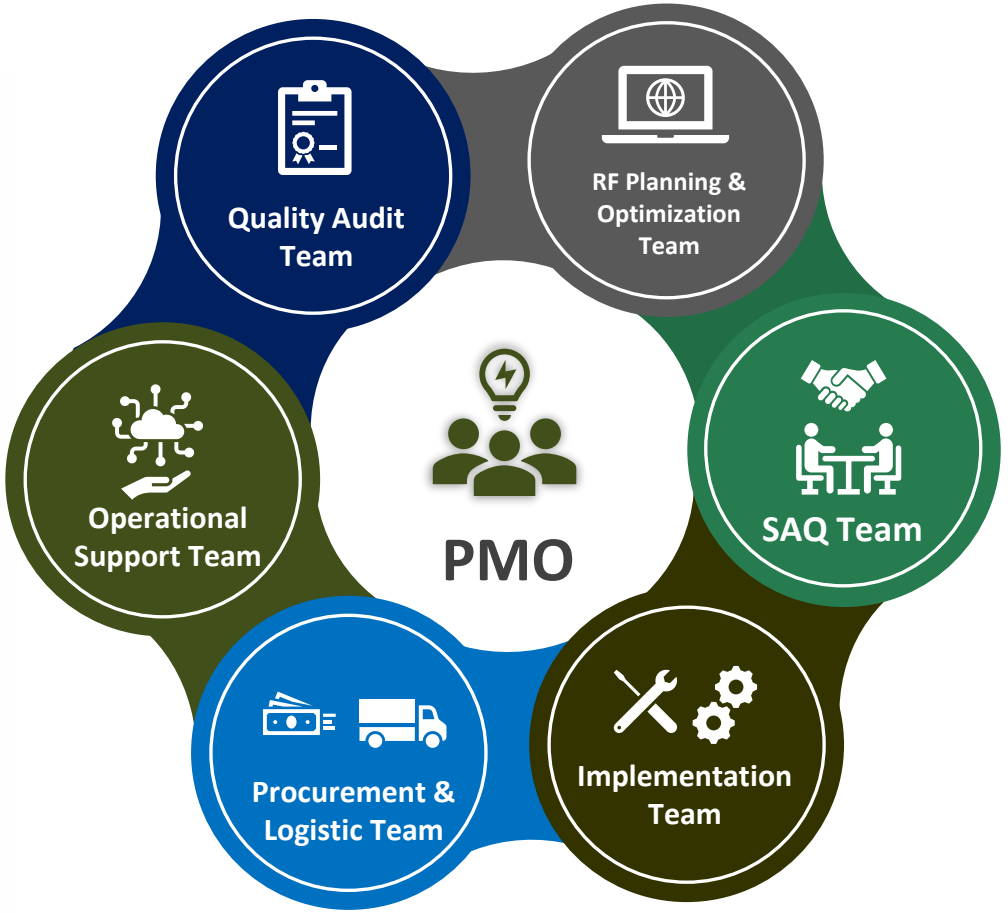
- Process oriented delivery Organization
- Strong Project Management team
- Automated and transparent reporting tools

ETISALAT - Direct Contract
IBS – FULL TURNKEY
305 Sites
2015-2023

OOREDOO – Direct Contract*
IBS – FULL TURNKEY
89 Sites
2016- 2018

Huawei
IBS –SAQ/ DESIGN/SOR
258 Sites
2011- 2015

Nokia
IBS - SAQ/ DESIGN/IMPL/ SOR
186 Sites
2011- 2015



*Project discontinued due to regional limitation since 2018

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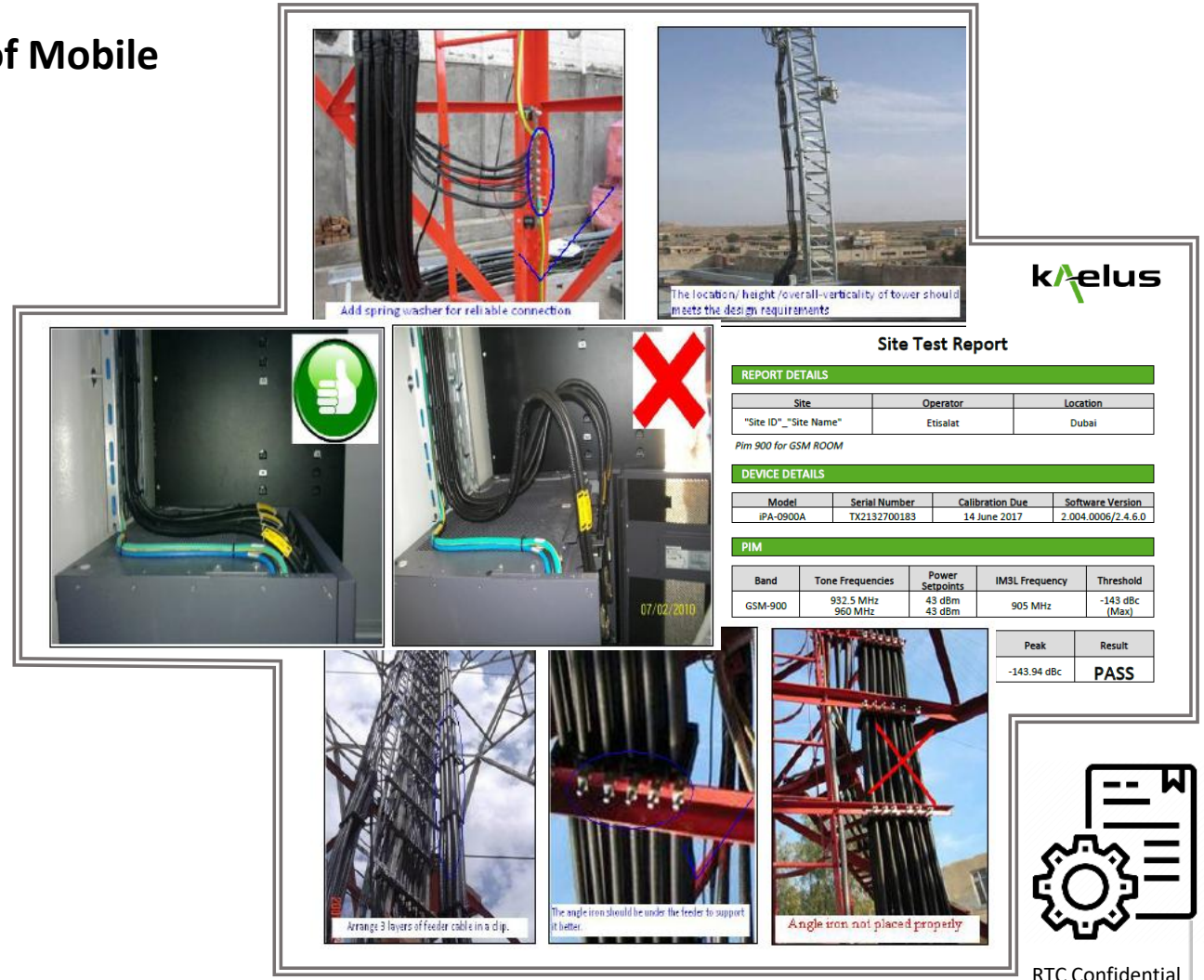
Telecom Quality Audit Service

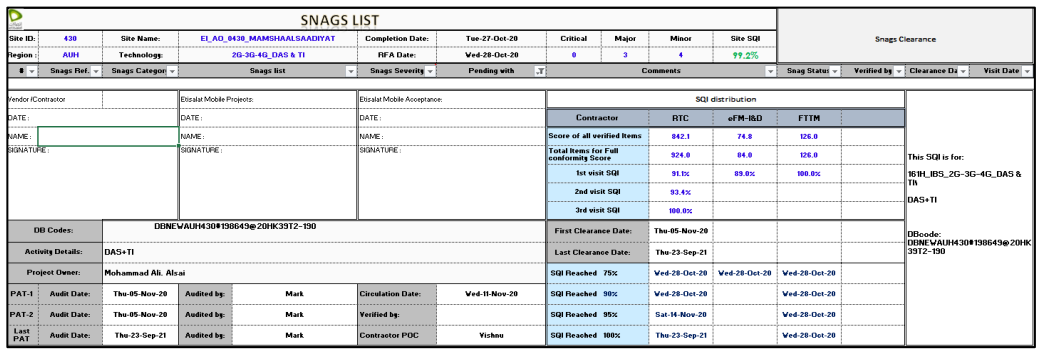


- **Professional Site Acceptance Audit service by trained personals**
- **Outdoor and Indoor Expertise**
- **Ensure Standard Methods are followed for Installation of Mobile**

Access Sites in terms of

Site Preparation and Installations of BTS/Node-B Equipment
Antenna System Installation
Power Installations(PDB/MDB)
Transmission Equipment Installation
Cabling
Termination
Earthing & Weather proofing of Cables/Connectors
Safety and ESD





RTC Confidential

Mobile Repeater and Booster Solutions

REPEATERS
INDOOR & OUTDOOR



Indoor Single Band



Indoor Dual Band



Indoor Triple Band



AFS (Auto Frequency Scanning)







Outdoor High-Power Repeaters

SIGNAL BOOSTERS



HOME

Supports 2G, 3G, 4G
Voice and Data



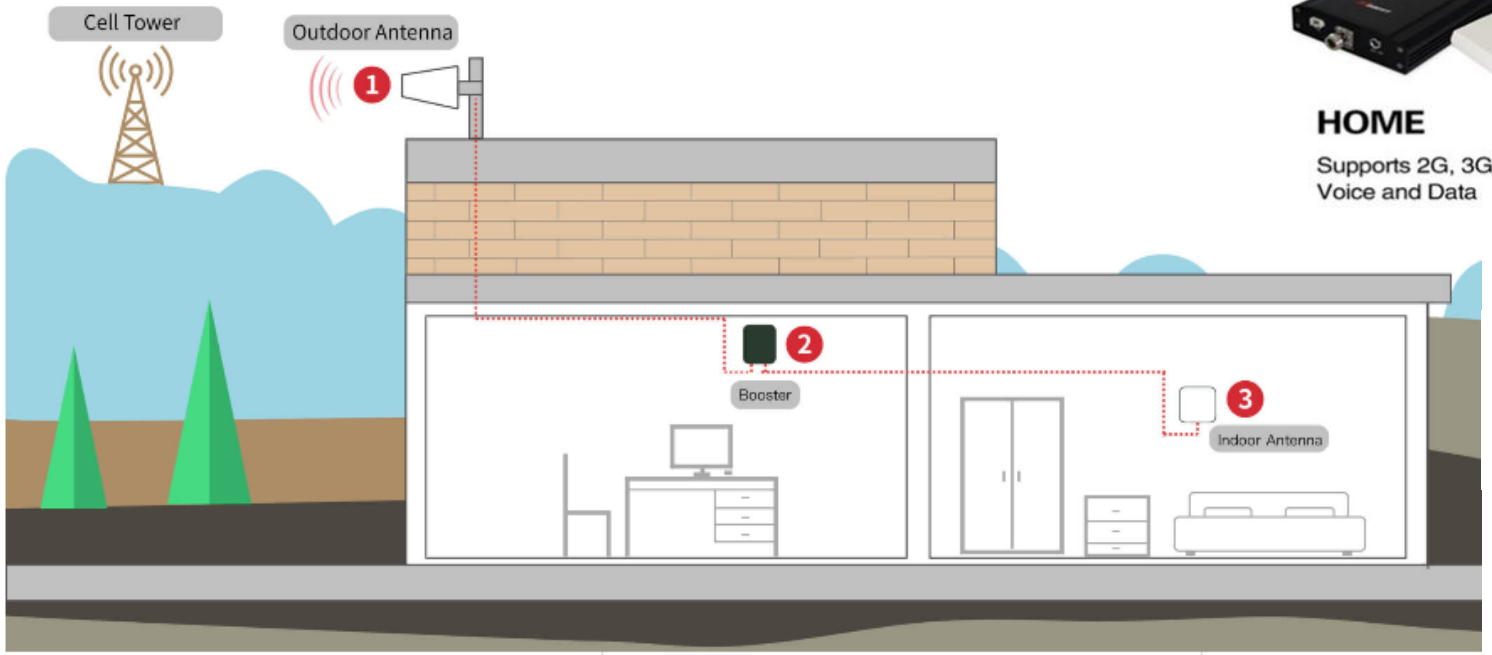
COMMERCIAL

Supports 2G, 3G, 4G
Voice and Data



INDUSTRIAL

Supports 2G, 3G, 4G
Voice and Data



STEP-1

The outdoor antenna communicates and captures cell signal from the cell tower

STEP-2

The booster receives the outside signal, amplifies it and sends it to the inside antenna

STEP-3

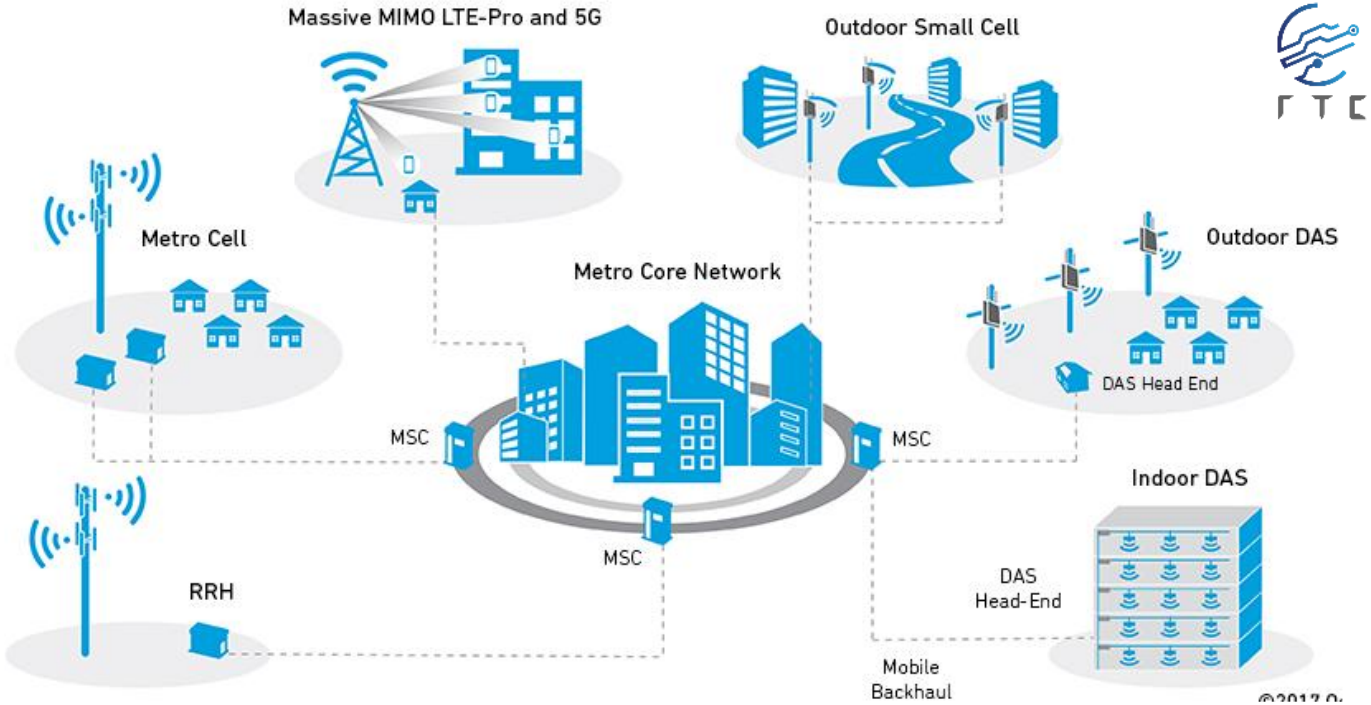
The inside antenna broadcasts the amplified signal to the area that needs reception.

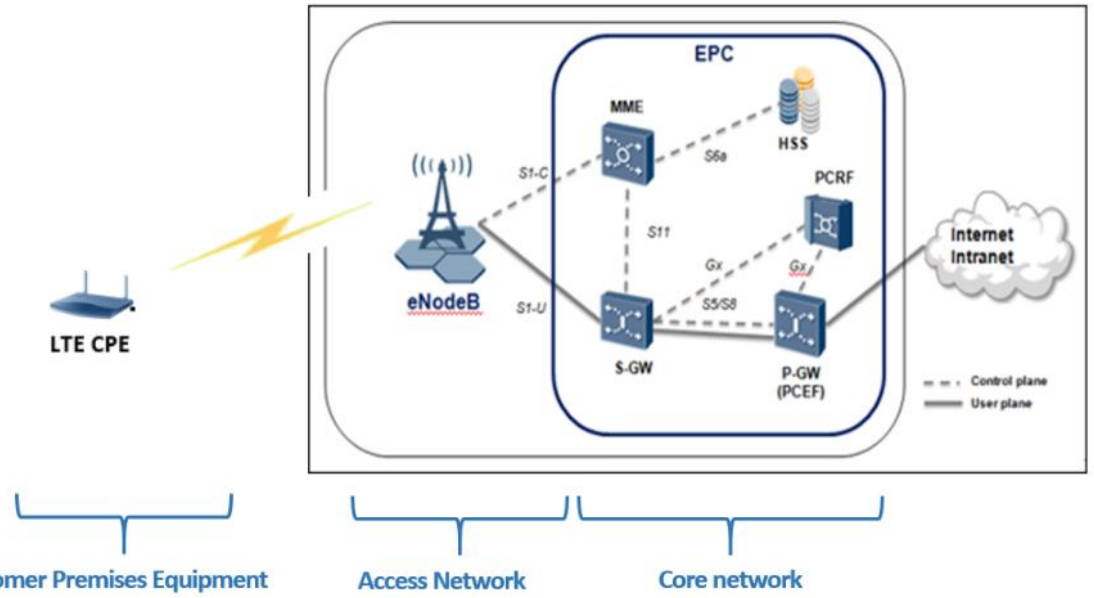
RTC Confidential

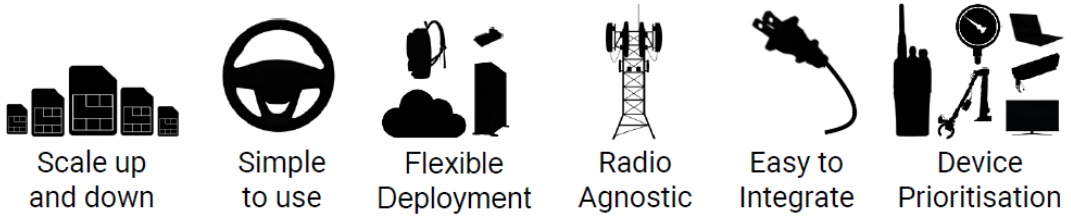
4G/5G ORAN Networks

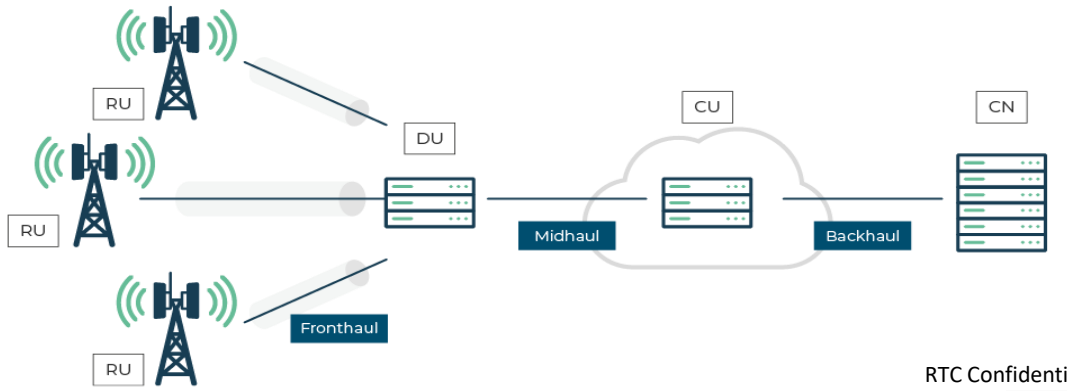
Why are service providers and enterprises looking at O-RAN?





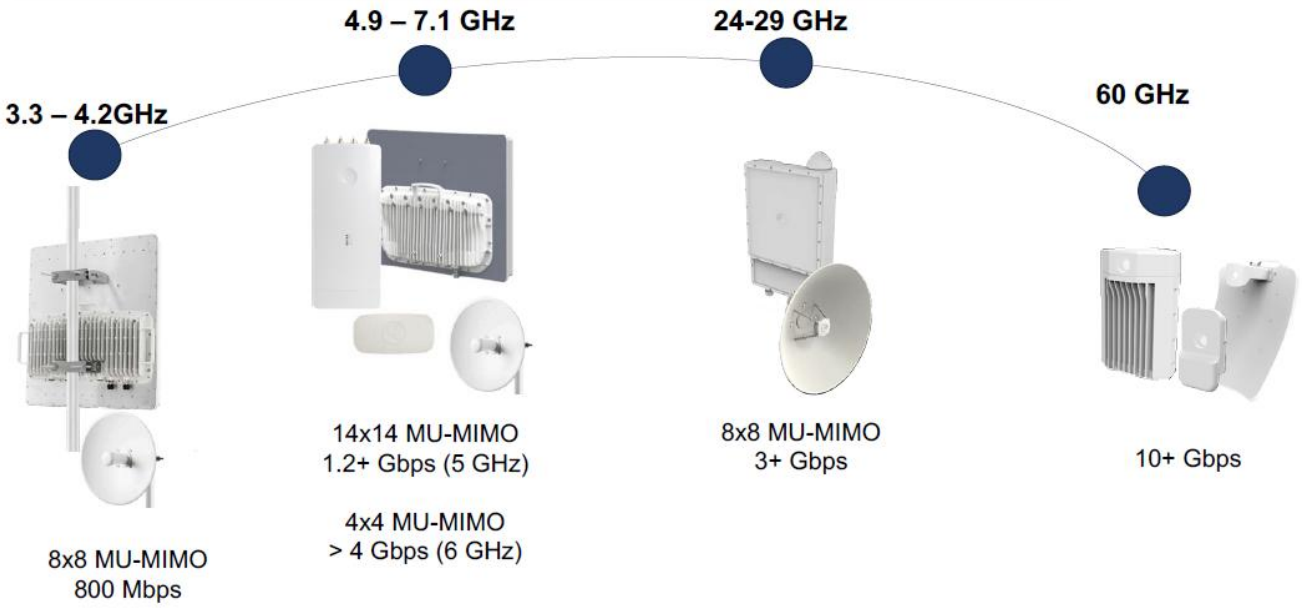


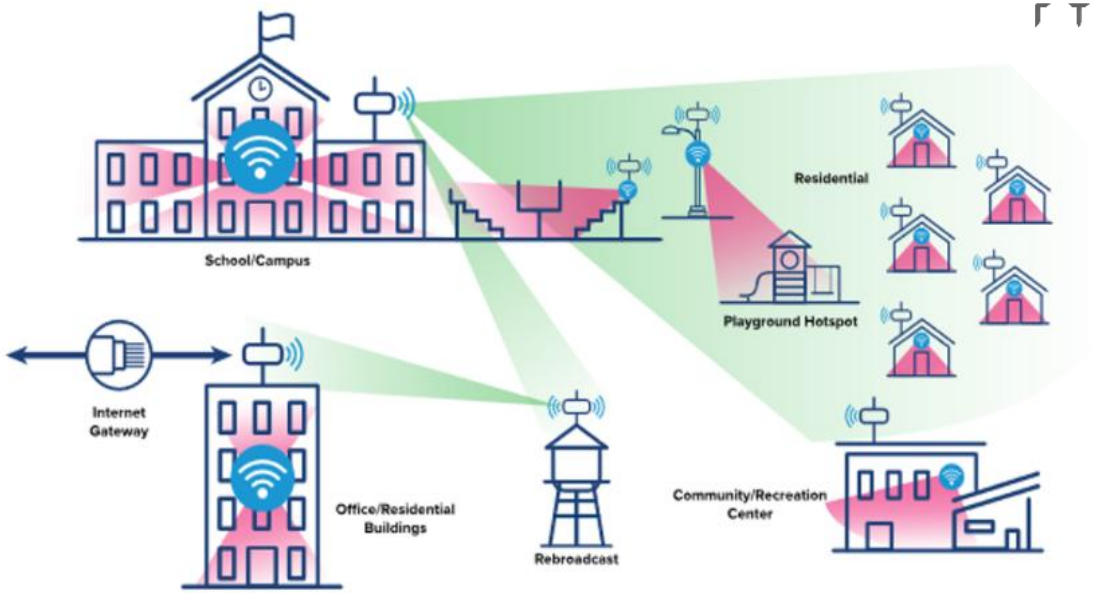


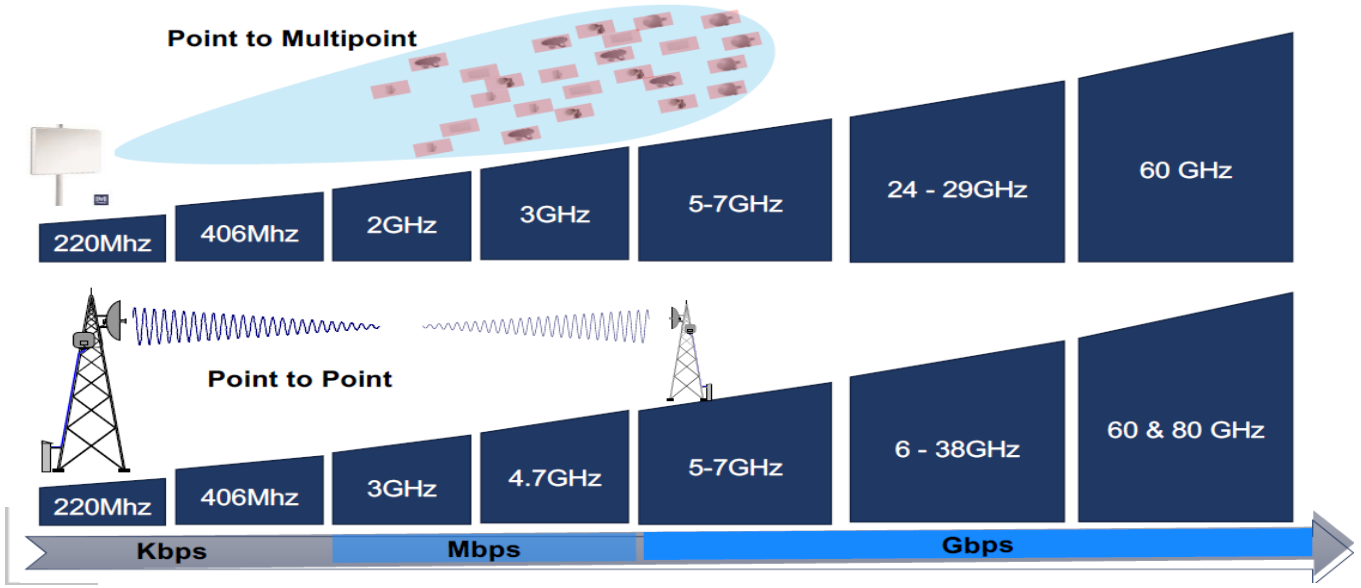


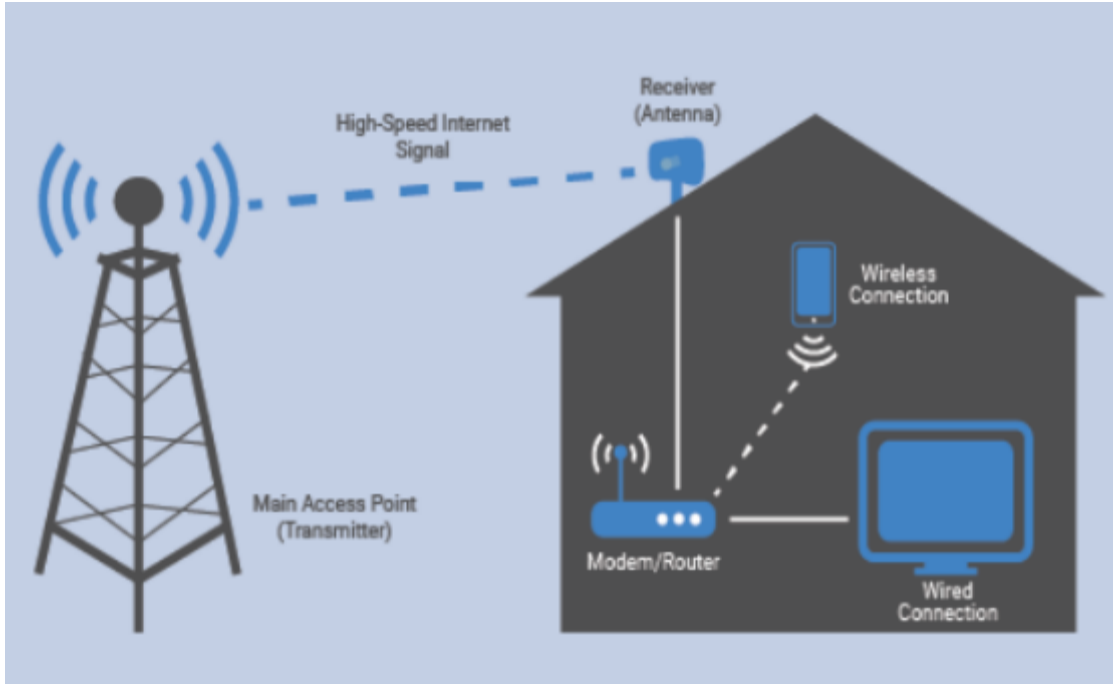
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Enterprise Network – Wireless Broadband









Mobile Network Solutions for Specialized Applications

Mobile Networks



- **Rural/Remote**
- **WISP**
- **Private/Enterprise**
- **Rapid Deployment**

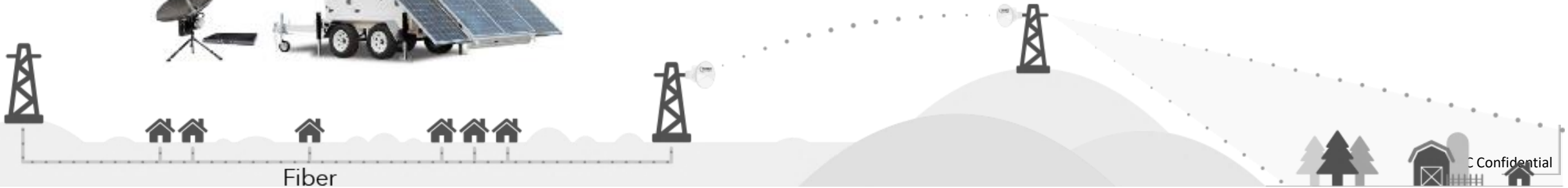












C Confidential

Our Products

- RF Products
- Copper Cable & Accessories
- Fiber Optic Cable & Accessories
- Cable and Antenna Analyzer
- Ducts & Smart Chambers
- Cabinets & Closures



RF Products

Coaxial Cables

- Air Cables
- Braided Cables
- Radiating Cables
- Wireless Cables
- Coaxial Cable Assemblies



Waveguides

- Elliptical Waveguides
- Rectangular & Flexible Waveguides

COMMSCOPE®



Wireless Transmission Connectors

- Air Connectors
- Braided Connectors
- Wireless & Radiating Connectors
- Waveguide Connectors



Distributed Antenna Systems

- ERA
- ION
- Master Units
- Remote Units
- RF Repeater



Base Station Antennas

- Multibeam
- Omnidirectional
- Beamforming
- Sector & Small Cell



Inbuilding Antennas & Components

- In-Building Antennas
- Passive Devices for In-Building Antenna System



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Cabinets & Closures

- Mini ODF
- Enclosures
- Wall Mounted Cabinets
- Rack Mounted Cabinets
- High Density ODFs
- Server Racks

Indoor & Outdoor











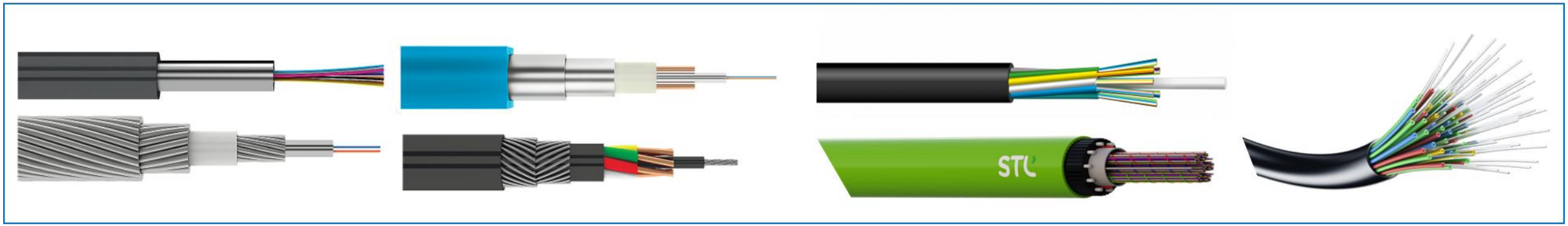






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Fiber Optic Cable & Accessories

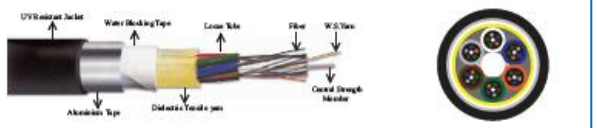




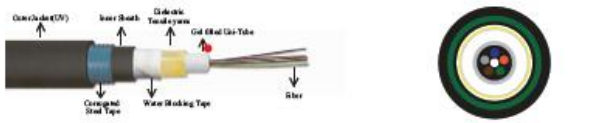
Dielectric (Central Tube) / Drop Cable



Micro duct Cable



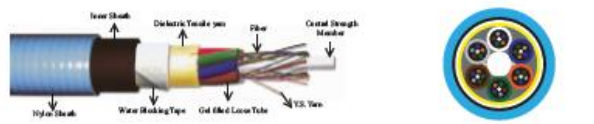
METALLIC OUTDOOR CABLE



Armored Cable (Central Tube)



Dielectric Outdoor Cable



(TERMITE + RODENT) Termite Proof Cable



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Copper Cable & Accessories

Faceplates



BS Faceplate Dual





6C Adapters



Patch cords



Cat6A Patch Cords



Color coded Boots



RJ45 Connector



RJ45 Coupler



Termination Modules



Cat6 unshielded Module



Cat6 shielded Module

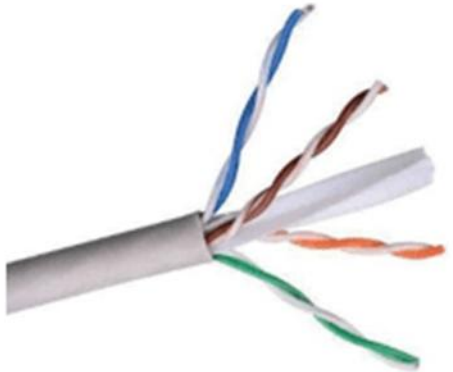


Cat6A unshielded Module



Cat6A Shielded Module





Cat 6/6A Cable



Copper Patch Cord



Cat 7/7A Cable



Patch Panel

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Ducts, Smart Chambers & Poles

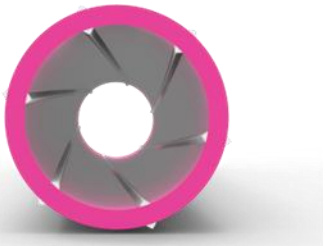


Micro Duct



Bundled Standard Duct

Ductrove



Helical Duct



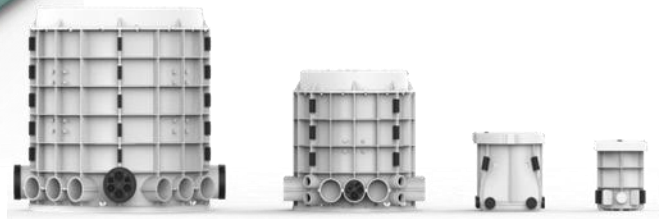
Power Duct



Smooth Duct

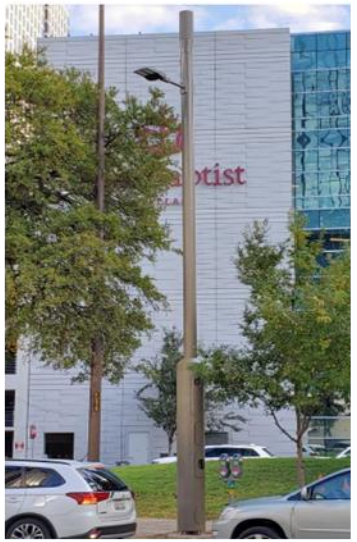


Tracer Duct



Smart Chamber





COMMSCOPE®



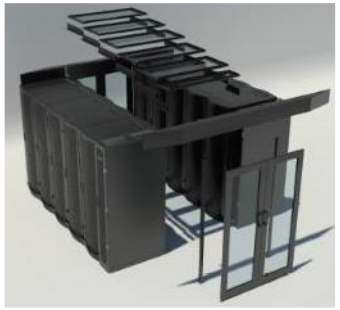


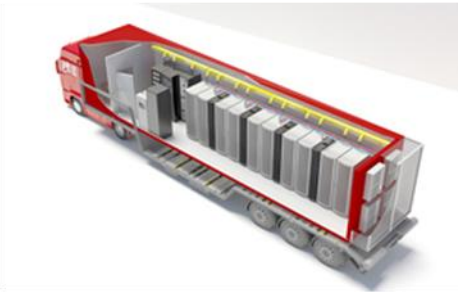
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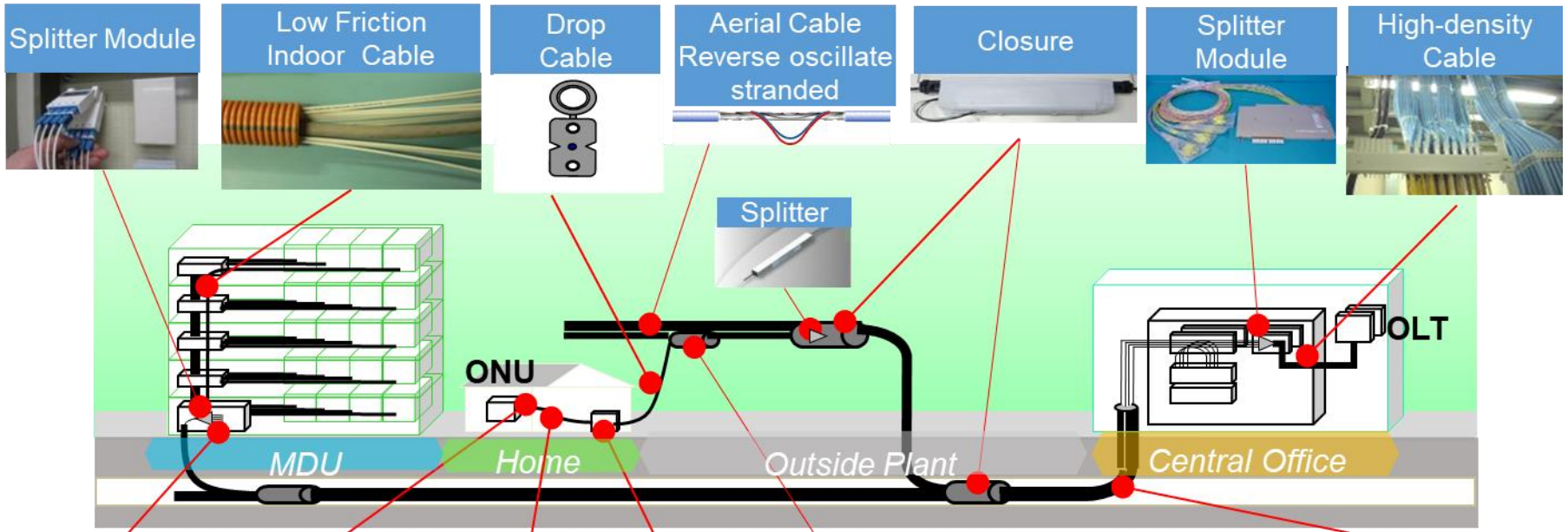
TELECOM / IT Solutions

FTTx & Data Center Products (End To End) / Specialized products











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Cable and Antenna Analyzer

kAelus



iPA



iXA

PIM Analyzers

iVA –Cable & Antenna Analyzer



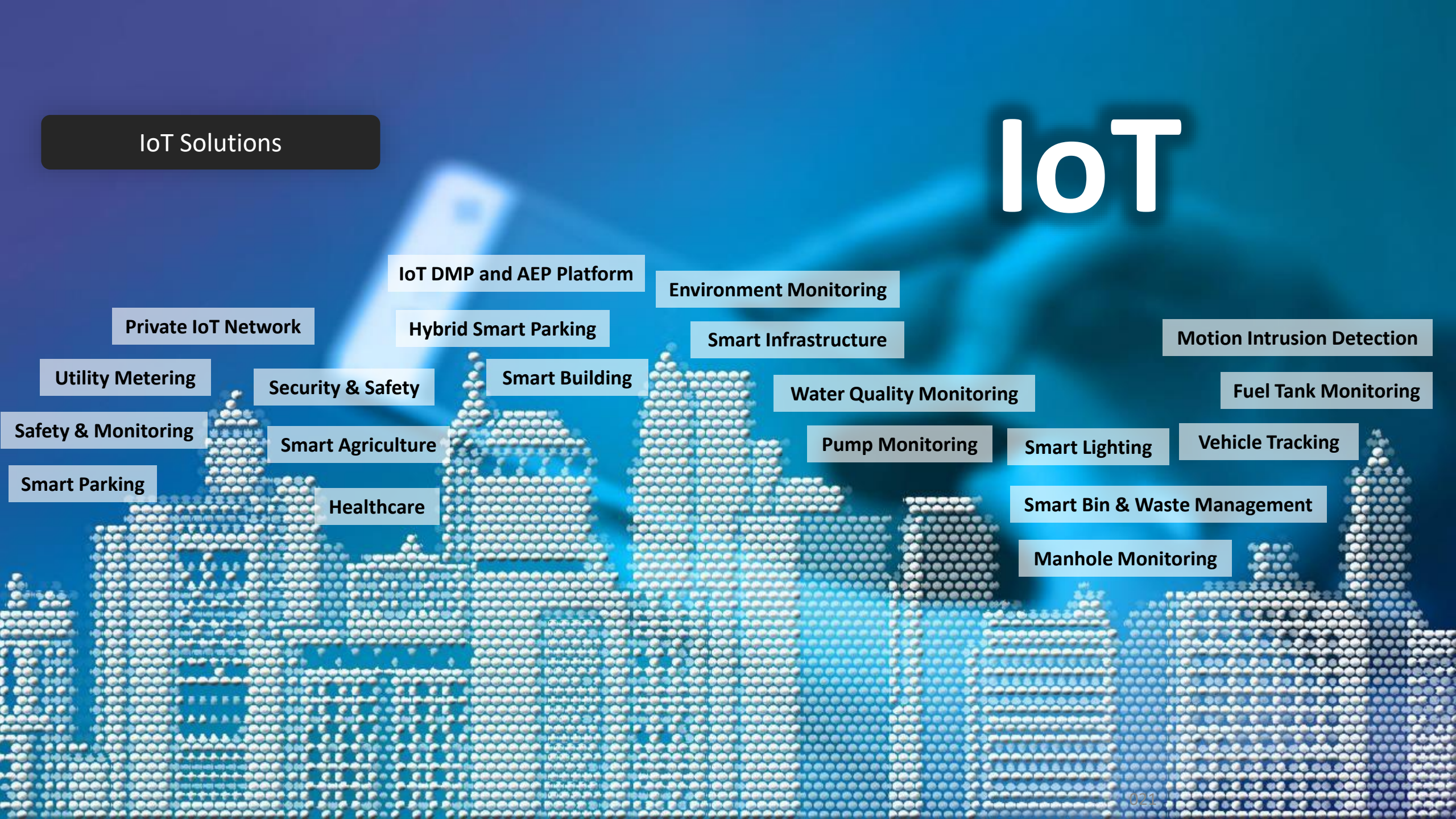


iBA

RTF



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IoT Solutions
IoT
IoT DMP and AEP Platform
Environment Monitoring
Private IoT Network
Hybrid Smart Parking
Smart Infrastructure
Motion Intrusion Detection
Utility Metering
Security & Safety
Smart Building
Water Quality Monitoring
Fuel Tank Monitoring
Safety & Monitoring
Smart Agriculture
Pump Monitoring
Smart Lighting
Vehicle Tracking
Smart Parking
Healthcare
Smart Bin & Waste Management
Manhole Monitoring

IoT Verticals

Transport & Logistics



- Connected Stations, Ports and Airports
- Smart Public Transportation
- Fleet mgmt
- Multimodal Logistic Chain management

Manufacturing



- Preventive and Proactive Maintenance
- Factory Floor Management
- Key Performance Indicators Analysis (OEE)

Healthcare



- Virtual Patient Monitoring
- Remote care (Assisted living & Independent living)
- COVID19 Protection
- Clinical Environment management

Oil & Gas / Mining



- Smart Pipelines
- Environment Monitoring
- Safety & Security (Lone Worker)

Predictive Maintenance



- Alarms and Events data collection
- Key people invited in an ad-hoc collaborative space
- AI/ML-assisted problems analysis and resolution

Telecom & Media



- Device Management Platform (DMP)
- Performance monitoring and benchmarking
- Application Enablement

Smart Cities / Buildings / Infrastructure



- Smart Waste Management
- Smart Lighting
- Building maintenance and Utilities

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IoT Verticals

Energy Systems Management



- Utility Optimization Intelligence
- Power losses prevention (UPS mgmt)
- Infrastructure Stability and Monitoring

Site Maintenance



- Computer Vision aided site/assets maintenance
- Smart Lock management
- Fuel tanks monitoring

Smart Agriculture



- Smart Farming
- Crop production management
- Soil moisture level monitoring
- Pest control optimization

Water Management



- Consumption monitoring (anomaly detection)
- Leakage Detection
- Water quality monitoring

Legislate



- Secure Video Lobby admission
- Configurable role system
- Modular/ configurable voting
- Highest level of voting security compliant with international e-voting standards
- RSI (Remote Simultaneous Interpretation) ISO 24019 compliant
- Agenda and Meeting management

Justice / Courts



- Case admission control
- Configurable trial workflow
- Configurable role system
- Recording w/ witness protection
- RSI for hearing management
- Verbalizer and Transcription system
- Private and Public hearings

Predict



- Collaboration and IoT integration
- Monitoring and Management of IT/OT
- War Rooms and Decision Support
- Field force automation
- Build and deployment of predictive maintenance models
- Sharing and cooperative work on Digital Twins

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IOT Devices



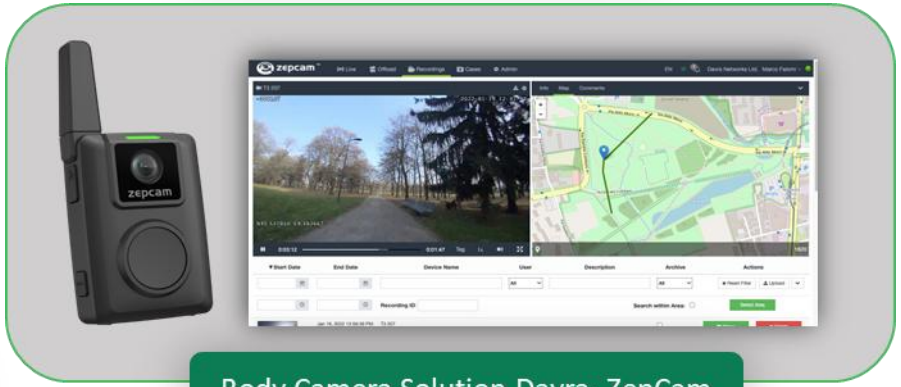
Smart Parking Solutions- INTERCOMP



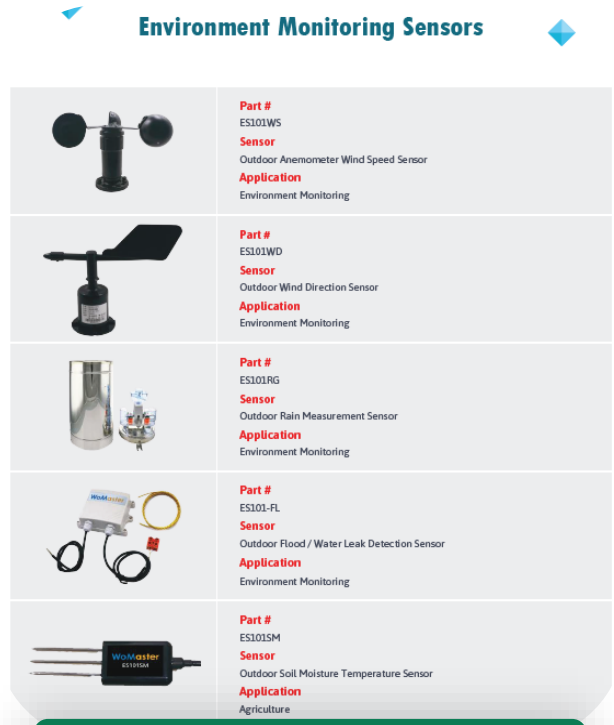
Smart Meters & Sensors- AK INFOS



Smart Home Solutions - HEIMAN



Body Camera Solution Davra- ZepCam



Environment Monitoring Sensor- WoMaster

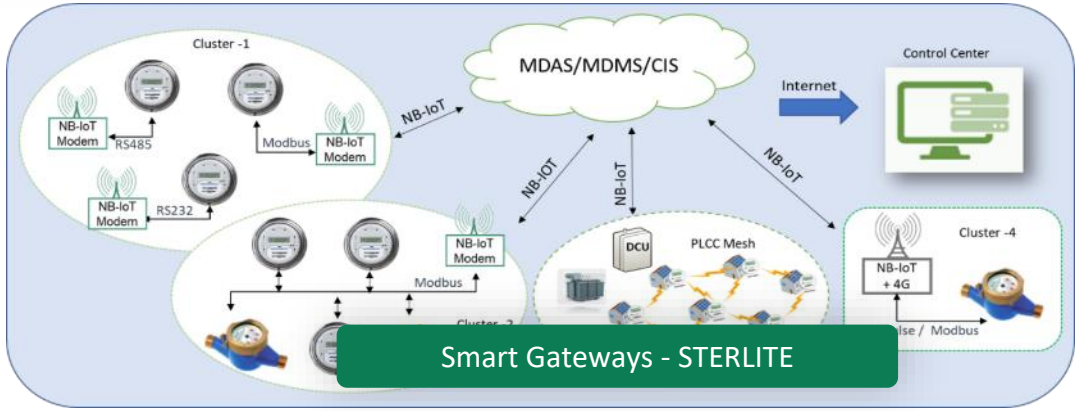






DINGTEK

IOT Sensors



Smart Gateways - STERLITE

onfidential

Other Software Solutions

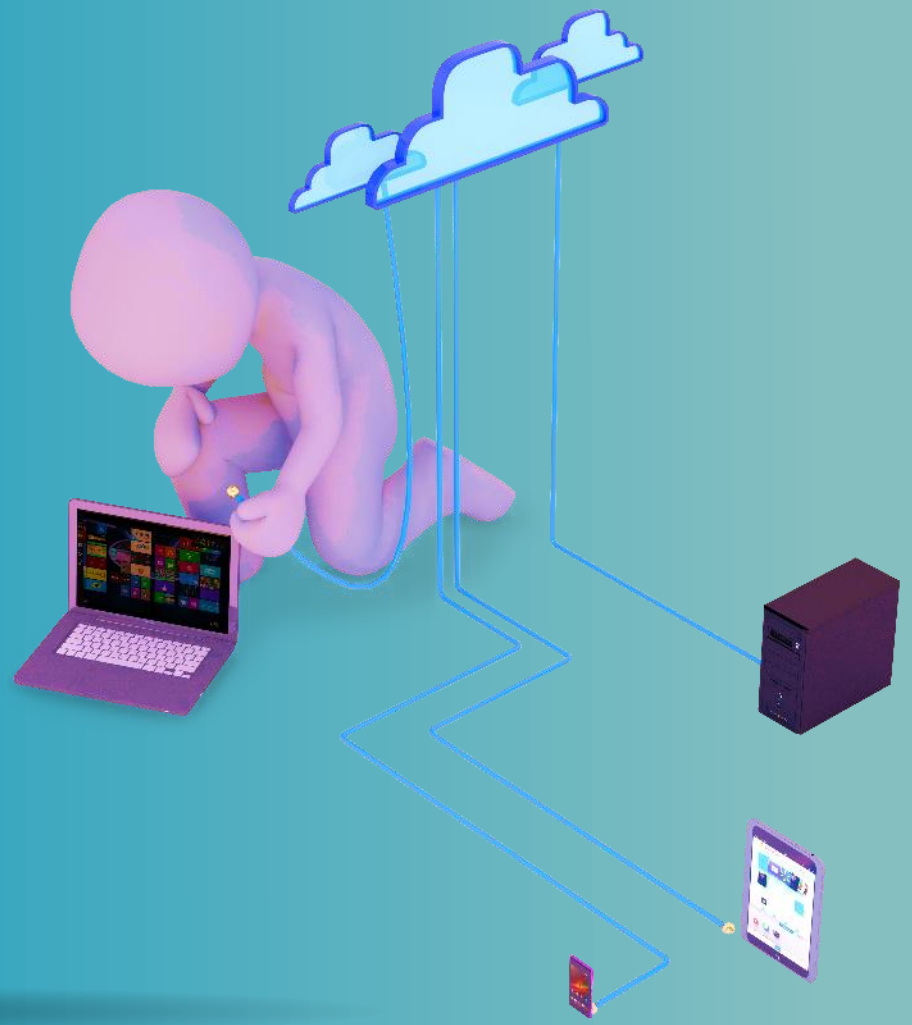
Business Process Automation

Audit-Maintenance-Automation

Project Automation

PCRF, OCC/BSS, AAA, Wi-Fi Platform, HSS, ACS

Wi-Fi Offload & Monetization



Business Process Automation

Sales Incentive & Compensation Management System – Web Portal

Experience



- Cloud based mobile application
- Simulate potential earnings
- Real time visibility
- Transparent process and payment info.

Sales Management



- Efficient target settings
- Flexibility to adapt forecasting challenges
- Performance dashboard
- Management Reports

Governance

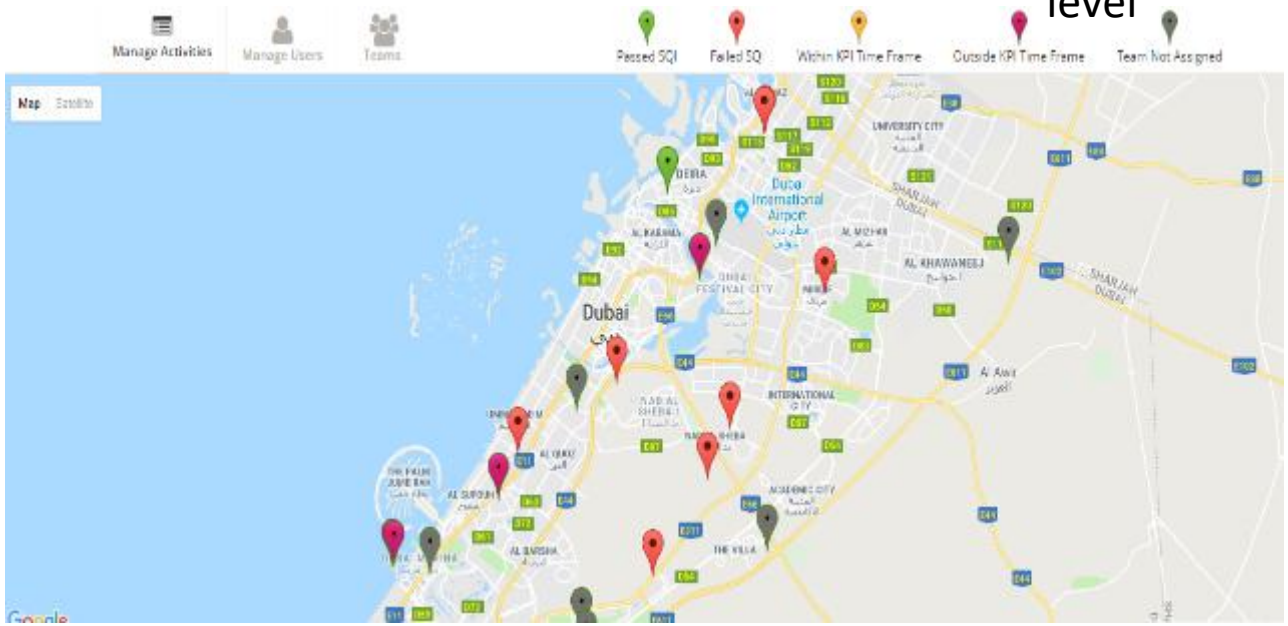


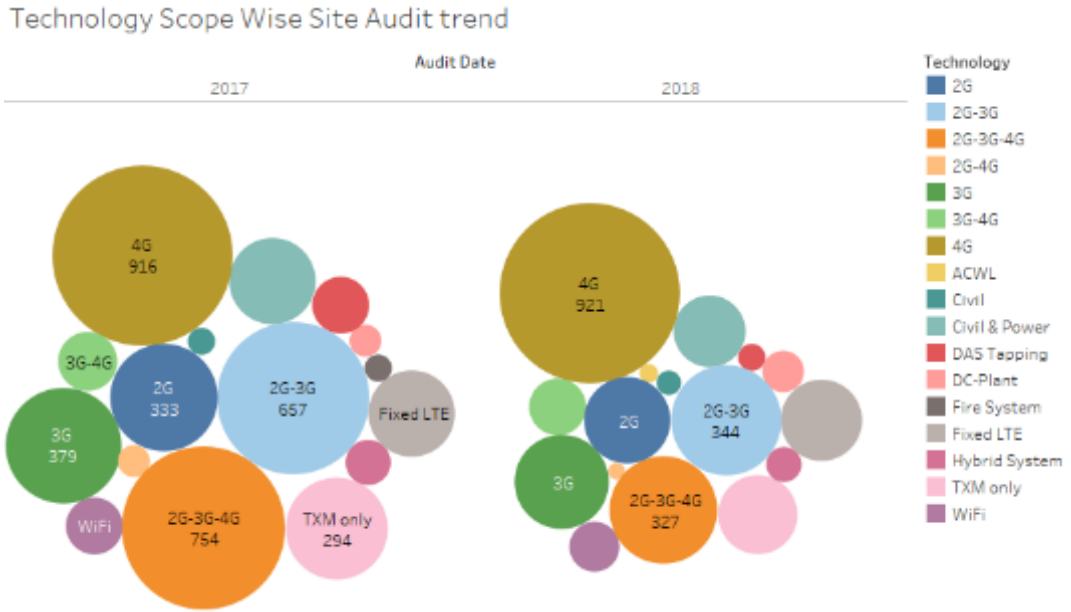
- Integrated to SAP for data upload
- Structured approval & payment process
- Exception management with full visibility
- Drill-down capability to view full S.Org

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Audit & Maintenance Automation Portal

Geo-location based site assignment to the team for better utilization. Site details can be viewed and grouping can be done based on various SLA's so that team allocation and utilization is optimized at the best level



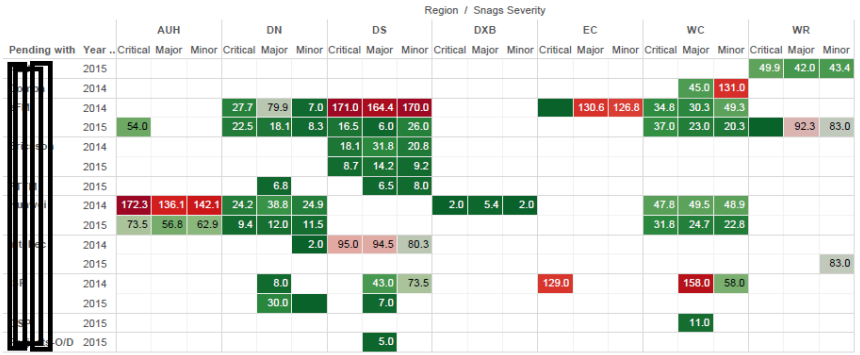


Maintenance reports of each activity or visit will be tracked separately with SQI and snag list details

Sites >> Audit Reports

Audit Reports

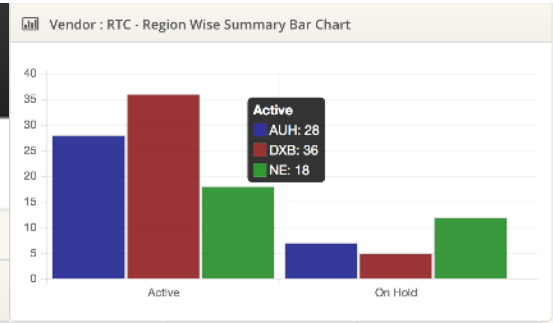
SITE ID	SITE NAME	CATEGORY	OWNER	PAT VERSION	SITE SQI	TEAM	VISIT STATUS	VISIT DATE	ASSIGNED DATE	LAST UPDATE	ACTION
3508	Jamal Bin Jawaher Twin Tower	IBS	RTC	1	98.69%	Fazil	Visited	Sun, 09/Jul/17	Sun, 09/Jul/17	Sun, 16/Jul/17	View Report | View PAT Certificate
3508	Jamal Bin Jawaher Twin Tower	IBS	RTC	2	100.00%	Fazil	Visited	Sun, 16/Jul/17	Thu, 13/Jul/17	Sun, 16/Jul/17	View Report | View PAT Certificate



Project Automation - Telecom

RTC Project Progress Tracker

Dashboard | Sites | PO Screen | Site DAS Progress



Overall Summary

VENDOR	OFFERED - ALL SCOPE	ACTIVE	COMPLETED	ON HOLD	IMPLEMENTATION ONGOING	IMPLEMENTATION COMPLETED	WCC SIGNATURE COMPLETED	RFS SIGNATURE COMPLETED	IMPLEMENTATION COMPLETION %	WCC SIGNATURE COMPLETION %	RFS SIGNATURE COMPLETION %
RTC	201	109	39	53	46	55	50	20	37.16%	33.78%	13.51%

Summary DESIGN, IMPL, FTK & FTK_WOTI only

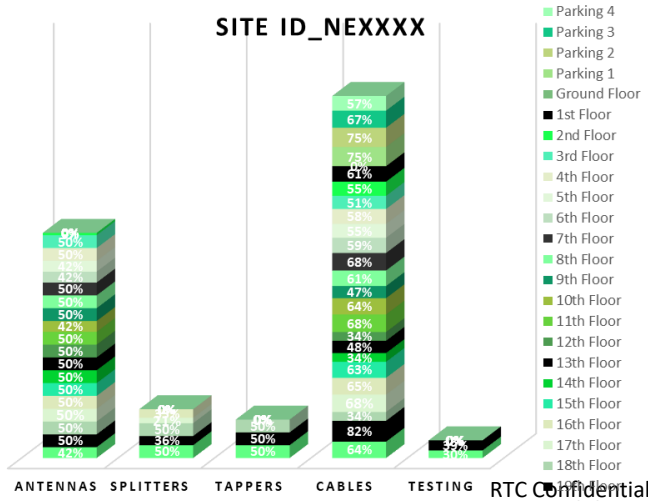
VENDOR	OFFERED	ACTIVE	COMPLETED	ON HOLD	IMPLEMENTATION ONGOING	IMPLEMENTATION COMPLETED	WCC SIGNATURE COMPLETED	RFS SIGNATURE COMPLETED	IMPLEMENTATION COMPLETION %	WCC SIGNATURE COMPLETION %	RFS SIGNATURE COMPLETION %
RTC	125	82	19	24	24	53	49	19	52.48%	48.51%	18.81%

Region Wise Summary DESIGN, IMPL, FTK & FTK_WOTI only

VENDOR	REGION	OFFERED	ACTIVE	COMPLETED	ON HOLD	IMPLEMENTATION ONGOING	IMPLEMENTATION COMPLETED	WCC SIGNATURE COMPLETED	RFS SIGNATURE COMPLETED	IMPLEMENTATION COMPLETION %	WCC SIGNATURE COMPLETION %	RFS SIGNATURE COMPLETION %
RTC	AUH	36	28	1	7	9	9	9	1	32%	32%	3.45%
	DXB	51	36	10	5	10	28	28	10	61%	61%	21.74%
	NE	38	18	8	12	5	16	12	8	62%	47%	30.77%

Online Portal to manage the complete project life cycle

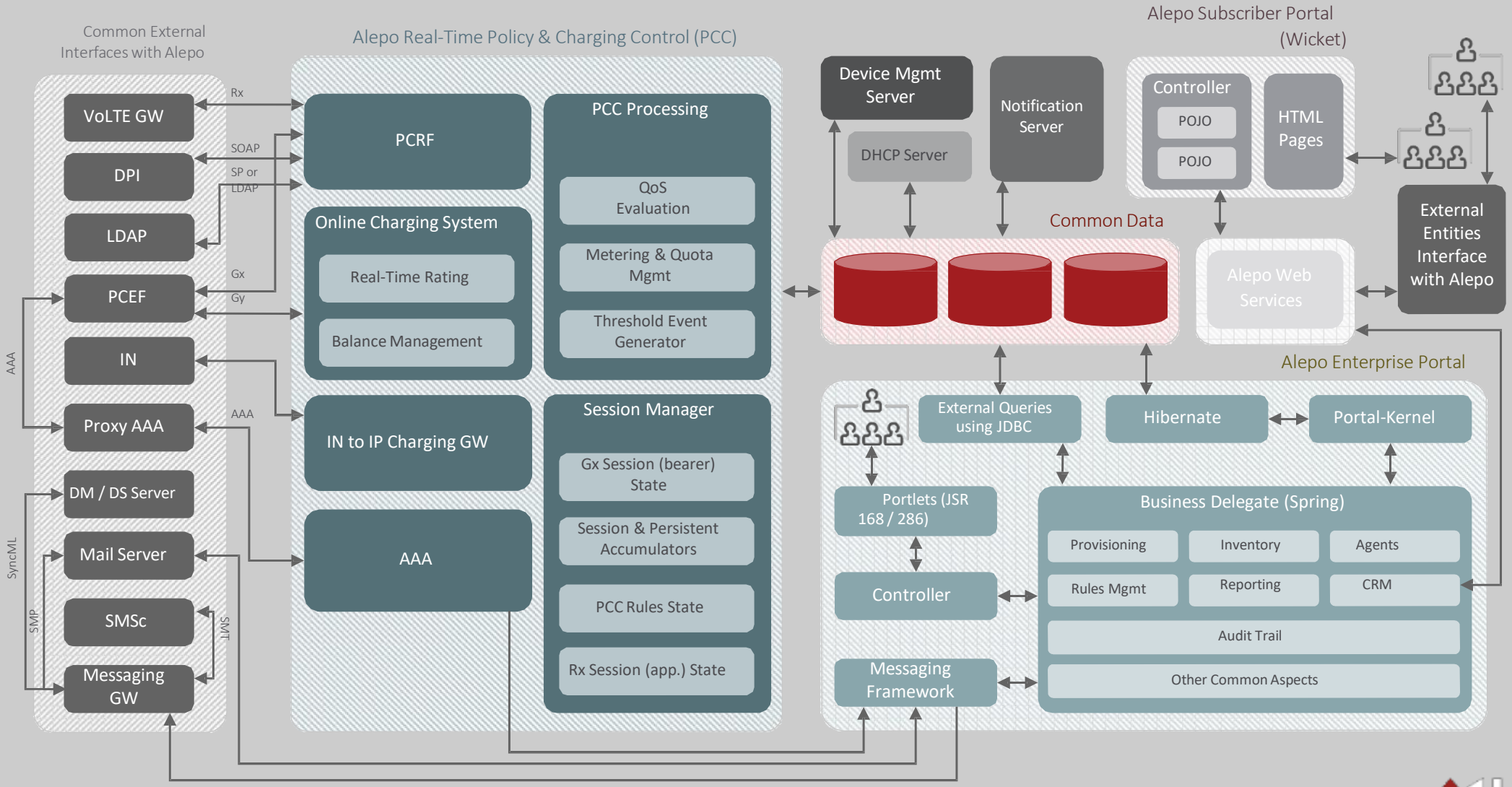
- Field Engineers update the daily work progress directly from field and customer gets updated view of the work progress and status
- Tack and manage contractual milestones and invoicing
- PO utilization and management
- IBS material tracking and inventory management
- Site folders and documentation repository for online access



RTC Confidential

PCRF, OCC/BSS, AAA, Wi-Fi Platform, HSS, ACS

ALEPO SOFTWARE ENVIRONMENT ARCHITECTURE



Wi-Fi Offload & Monetization

Alepo Wi-Fi Solution

Wi-Fi Offload

- Wi-Fi Data Offload
- Wi-Fi Calling
- EAP-SIM/AKA authentication
- Standard protocol-based integration with mobile core network
- Connection Manager Application

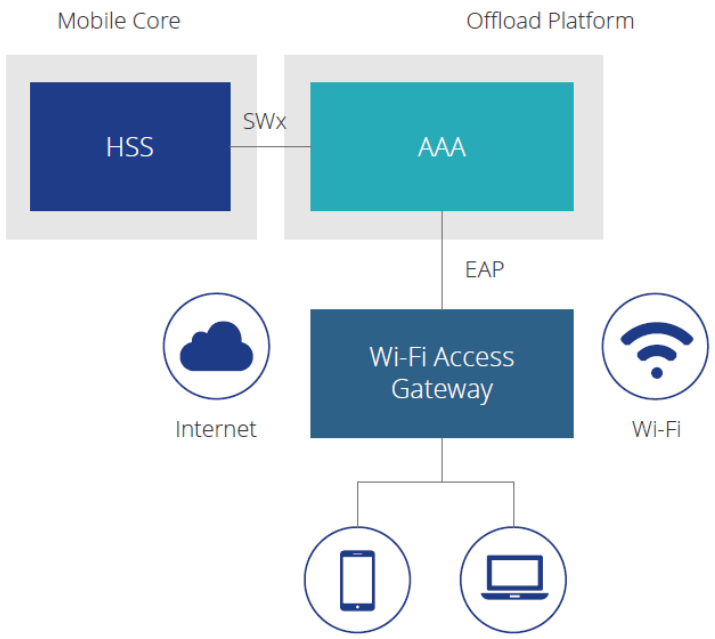
Wi-Fi Monetization

Public Wi-Fi/ Smart City Wi-Fi

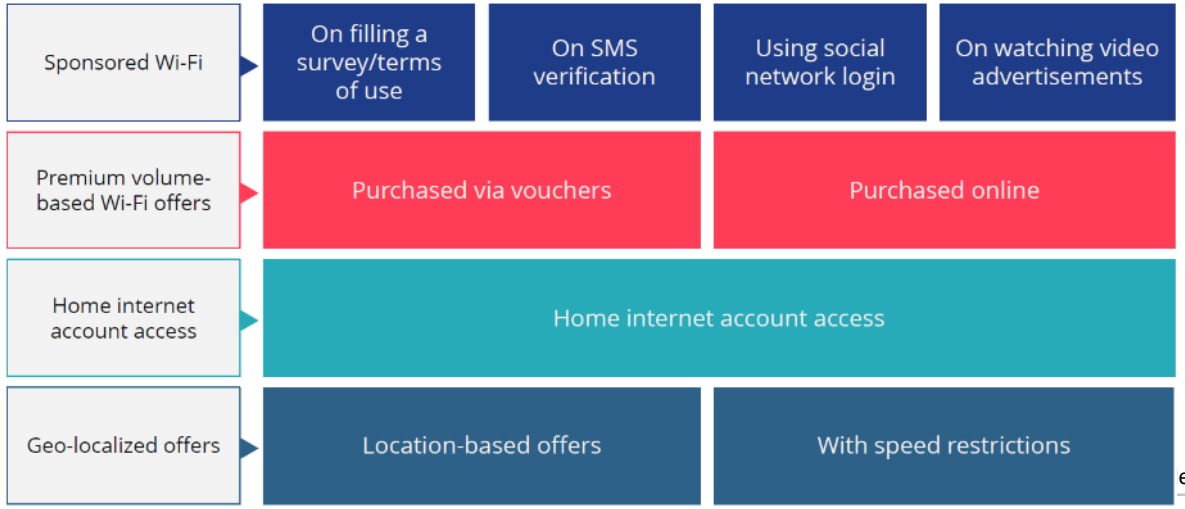
- Sponsored and premium Wi-Fi
- Usually hospitality, stadiums, stations, etc.
- Social login, vouchers, offers, surveys, OTP verification, term and conditions, common pass
- Partners and advertisers
- Content platform for campaign management
- Analytics driven solution
- Usage Analytics

Enterprise Wi-Fi

- Enterprise sponsored Internet
- Fixed use cases:
  - Company ID Login
  - MAC-based access
  - BYOD
  - Generated/ registered user credentials
- Role based quota allocation
- Employee usage-analysis
- White-labelled portals







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Thank you

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