



September 5, 2020

National Stock Exchange of India Limited

Exchange Plaza, 5th Floor, Plot No. C-1, G Block, Bandra Kurla Complex, Bandra (East) Mumbai - 400 051.

Dear Sir/ Madam,

BSE Limited

Phirozee Jeejeebhoy Towers, Dalal Street,

Mumbai - 400 001.

Sub: Intimation of Key Discussions in STLescope Tech Talk - Virtual Meet

Further to our intimation dated September 3, 2020 and pursuant to Regulation 30(6) of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, we wish to inform you the key points discussed in the Virtual Tech Talk on 4th September, 2020.

The presentation of the STLescope Tech Talk is attached herewith.

Kindly take the above on your record & acknowledge the receipt.

Thanking you,

Yours faithfully,

For Sterlite Technologies Limited

Amit Deshpande

Company Secretary & Corporate General Counsel



STLescope TechTalk

Wireless Technologies
- A Disruptive Future Awaits

4st September 2020



Safe Harbour



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Digital Networks 2

Future of Wireless Technologies

3

Next Generation WiFi Networks

4

Role of STL

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Q&A

Three Key Trends Driving Growth of Digital Networks



1. New era of Digitization

Unprecedented exponential growth in data

2. Powered by various Technologies

IoT, 5G, FTTx, Immersive content

3. Hyperconnected World

The need for gigabit connectivity

Advanced Digital Networks

Future of Wireless Technologies



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Digital Networks 7

Future of Wireless Technologies

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Next Generation WiFi Networks

Role of STL

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Q&A



Rajesh Gangadhar



CTO and Head of Access Solutions

Rajesh drives disruptive wireless technologies for last-mile connectivity at STL

In this role, he is responsible for driving new business growth through development of advanced Access Products (5G, Software Defined Networking, Virtualisation & Artificial Intelligence) leveraging open innovation and customer-centric R&D.

He has completed his Master of Sciences from Villanova University, Pennsylvania. In his previous stints, he has worked with companies like Sprint, Nextel, Cable Labs, and Clearwire

Open Source Standard, Virtualisation and Software Defined Networking to gain traction across Industry



77%

enterprises are expected to increase their use of **Open Source Software**

95%

of enterprises will adopt

Virtualisation Platforms

93%

of enterprises will adopt

Software Defined Networking

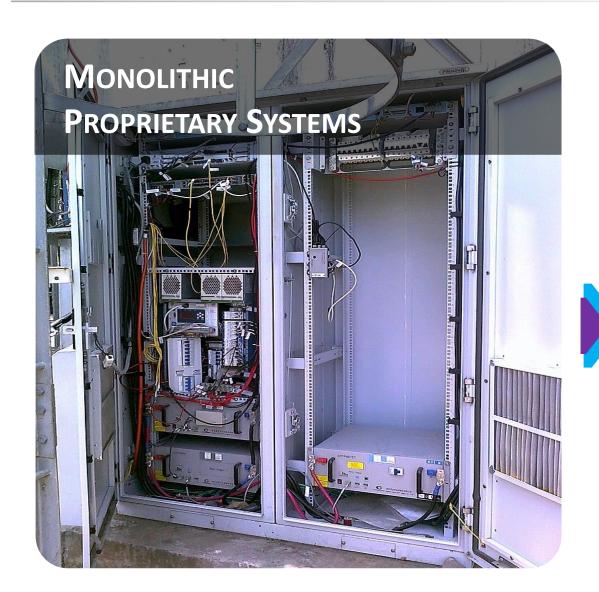
for cloud networks

GLOBAL TELCOS ARE RAPIDLY ADOPTING THESE TECHNOLOGIES

- Global telecom players to invest nearly tens of billions in Software Defined Networking and Network Function Virtualisation technologies by 2021
- Global telecom majors such as BT, AT&T, Verizon, Jio, Airtel, Rakuten are moving to Open RAN and conducting several trials in partnership with other technology players

What is the disruption in wireless all about?







Industry Witnessing Technological Shift Transition to Open Disaggregated and Virtualized Solutions





MONOLITHIC PROPRIETARY
Systems



OPEN DISAGGREGATED VIRTUALIZEDWEB-SCALE SYSTEMS

Closed interfaces	Standardized open interfaces	OPEN STANDARD	0
Vendor specific hardware	Programmable white boxes	DISAGGREGATED	
Monolithic and proprietary	Cloud native, disaggregated	DISAGGREGATED	D
Localized control and data plane	Centralized control plane	VIRTUALISATION	V
Expensive	Better TCO	VIKTUALISATION	V











Open and Disaggregated Virtualized Solutions





- Open interfaces
- Open source codes
- Non-proprietary
- Aligned with standards developed by open forums













- Abstraction of hardware from software layer
- Centralized control plane
- Individual data plane



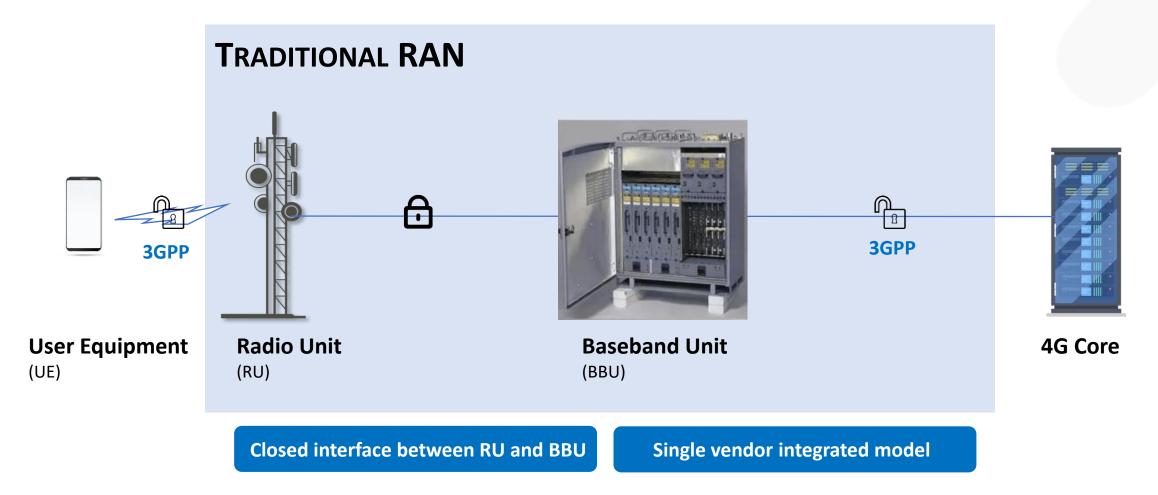
- Software defined networking
- Optimized use of hardware resources
- Scalable on the go



Transition from traditional RAN to Open and Virtualized RAN:

Network with traditional RAN



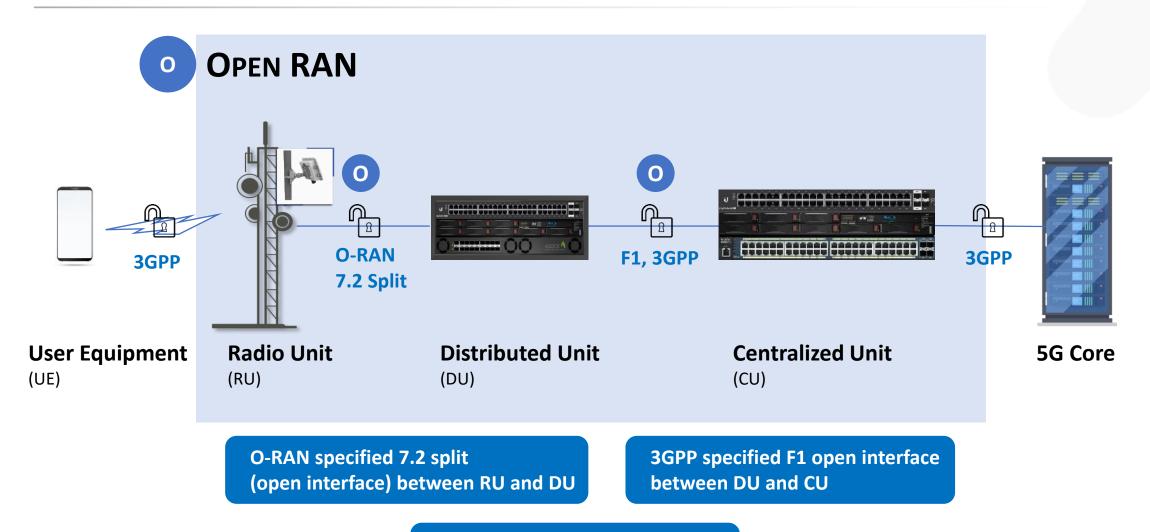


^{*} Images are for representation only

Transition from traditional RAN to Open and Virtualized RAN:

Network with Open RAN





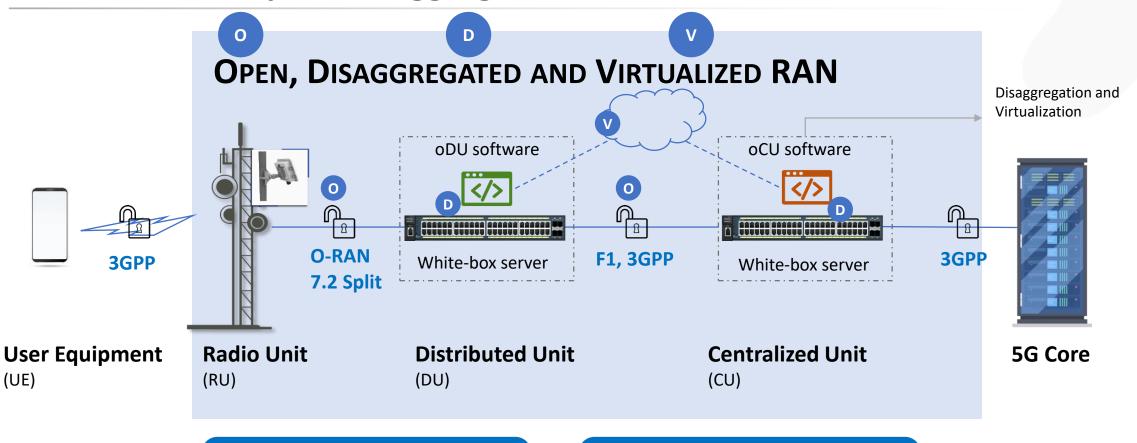
Multi-vendor, best of breed model

Transition from traditional RAN to Open and Virtualized RAN

Network with Open, Disaggregated and Virtualized RAN



13



Disaggregation

Abstraction of hardware from software layer

Virtualization

Running software over generic white boxes

^{*} Images are for representation only

Benefits of Open RAN Solutions



14



MULTIVENDOR ECOSYSTEM



COST OPTIMIZATION







* Images are for representation only

Next Generation WiFi Networks





Future of Wireless Technologies

Next Generation
WiFi Networks

Role of STL

Q&A



Shantanu Kulkarni



Head of Network Software Solutions

Shantanu leads Telecom Business Support System/Operating Support System product suite development at STL.

He has more than 20 years' experience in Telecom domain with strong expertise in Business Support System architecture and product management. His technical specialties are: Solution Architecture and Software Development.

Before his stint with STL, he was leading the Research and Development division of Amdocs India.

What is happening in WiFi industry?



WiFi continues to gain momentum.... By 2023

51%

IP traffic to be contributed by WiFi

18x

Increase in Public WiFi Traffic

4x

Will be the Speed

628 Mn

WiFi Hotspots Globally

Source: Cisco

WiFi is an integral means of everyday communication and has huge impact on our daily life

Indoor Outdoor Railway **Travelling** Home **Airports Offices Smart City** Hotels Malls **Commuting Stations** 5G WiFi

Existing WiFi Ecosystem Challenges and Current Offerings



Existing Challenges



POOR USER EXPERIENCE



NETWORK CONGESTION



INCREASING COST



UNSECURED ACCESS
AND POOR
COVERAGE

CURRENT OFFERINGS

- Free Public WiFi
- Mobile Data offload
- Seamless Authorization and Connectivity
- WiFi Calling

Next Generation Networks Building a strong WiFi Backbone



Key Imperatives for Next Generation Networks



SEAMLESS USER
EXPERIENCE



INCREASED

NETWORK CAPACITY



EFFICIENT OPERATIONS AND REDUCED COST



SEAMLESS ACCESS
AND
AUTHENTICATION



NEXT GENERATION NETWORKS

- 1. WiFi 6
- 2. Next Generation Hotspots
- 3. Open Roaming

Generating new opportunities and growth in market





254 Million WiFi 6 Access Points (2024)

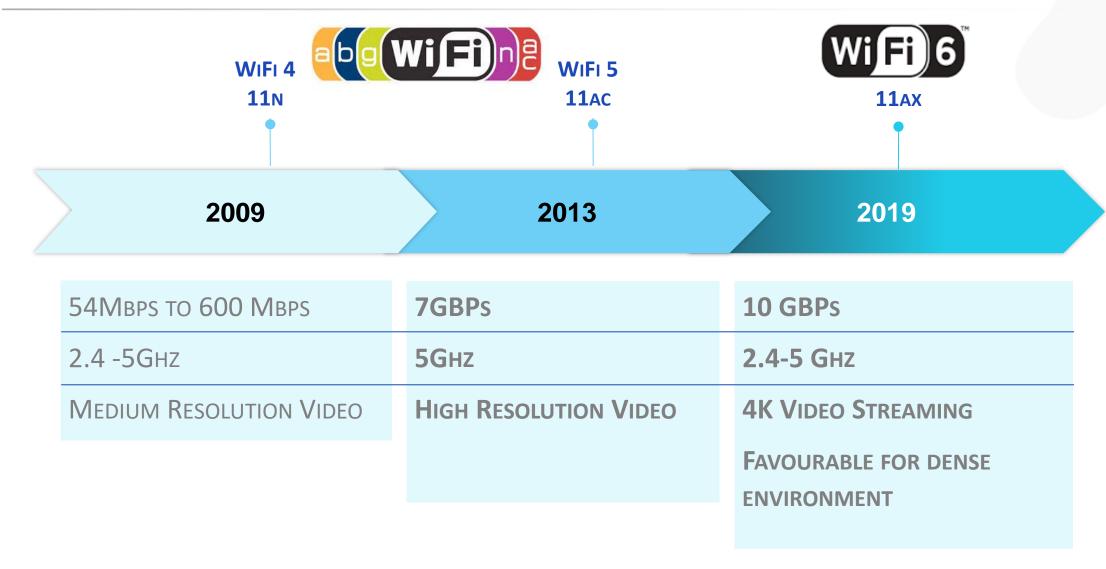
Access points: includes routers and switches





Evolution of WiFi 6





What is WiFi 6 and how it is better than previous generation of networks





Increased network capacity & throughput

Upto 4 times improved performance with 25% increase in data rates and 2x increase in throughput



Improved battery efficiency

Scheduled sleep/wake time which allows devices to plan communication in advance thus improving power saving





IoT Connectivity

Faster speed, improved security and increased scalability to connect multiple IoT devices at a time



Built for dense environment

Easing WiFi congestions in dense environments (expand capacity, extends coverage, enhances experiences)

What is the relationship between WiFi 6 and 5G



WiFi 6 and 5G are complementary and brings next-level, seamless functionality to the wireless world

HIGH SPEED	10+ GBPS	Social, video and cloud applications
Low Latency	<1ms	Augmented Reality, Virtual Reality, 3D Video, Cloud and Mission Critical Applications
Power Efficiency	Support IoT standards	Battery-Powered IoT, Industrial and Home Automation
HIGHER CAPACITY	> 12 MBPS per meter square	Good performance in dense deployments
Coverage	>200 meter	Low deployment and service costs

WiFi 6 – Five Technology Building Blocks



Better Network Capacity

1

Orthogonal
Frequency
Division
Multiple Access
(OFDMA)

2

Multiple Unit –
Multiple Inputs
and Multiple
Output
(MU-MIMO)

3

Basic Service Set Coloring (BSS-Coloring) Device Battery Life

4

Target Wake
Time
Technology
(TWT)

Peak Throughput

5

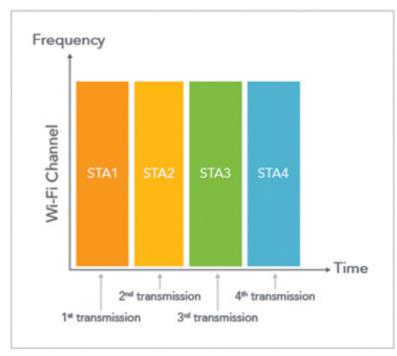
Quadrature Amplitude Modulation (1024-QAM)

Orthogonal Frequency Division Multiple Access OFDMA



TRADITIONAL METHOD

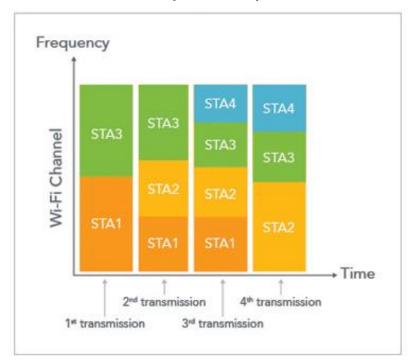
ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING (OFDM)



 Single Transmission on Single Channel

NEXT GENERATION

ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS (OFDMA)



 Multiple Transmissions on Multiple Channels

Key Benefits

- Channel efficiency
- High network throughput
- Faster speed

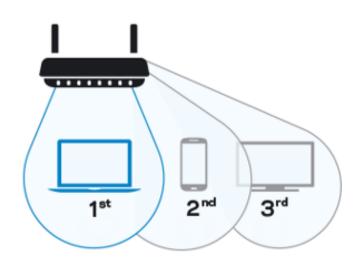
STA: Station/User

Multiple User–Multiple Input and Multiple Output MU-MIMO



TRADITIONAL METHOD

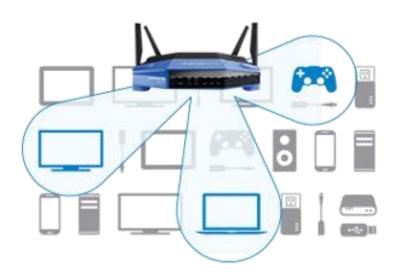
SINGLE USER - MIMO



Communicates with one device at a time

NEXT GENERATION

MULTI USER - MIMO



Communicates to multiple devices at a time

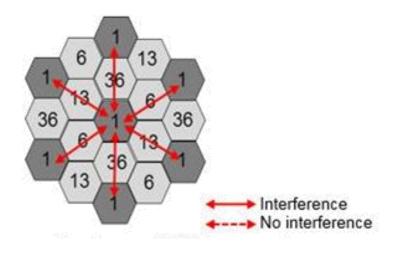
Key Benefits

- Network multitasking
- Better speed
- Higher capacity

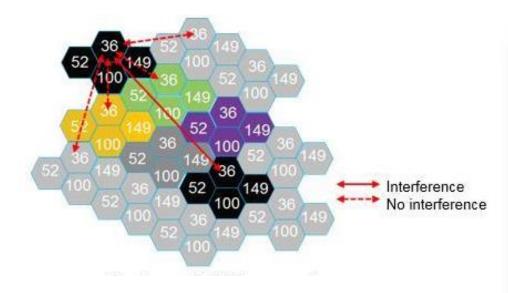
Basic Service Set Coloring – BSS Coloring



TRADITIONAL METHOD



NEXT GENERATION



 Co-Channel BSS Congestion Co-Channel BSS Congestion with same color

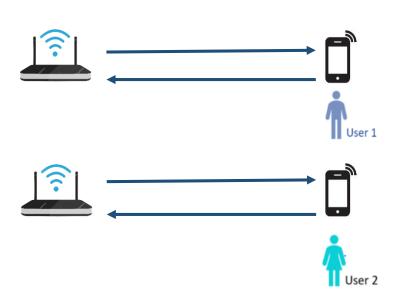
Key Benefits

- Less signal Interference
- Reduced network congestion
- Faster speed

Target Wake Time Technology TWT

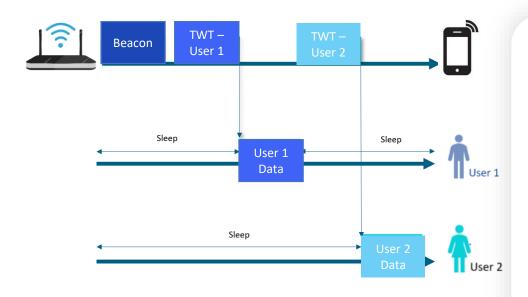


TRADITIONAL METHOD



- Data transfer between Access
 Points and User Devices
- Power Drainage

NEXT GENERATION



- Determines specific time to communicate between Access Points and Devices
- Power Efficiency

Key Benefits

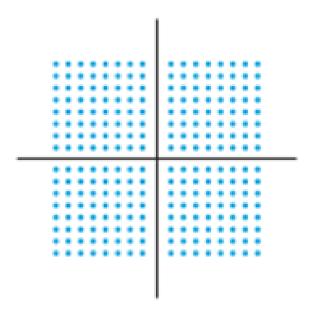
- Reduced congestion and overlap between users
- Significantly increases the device sleep time to reduce power consumption

Quadrature Amplitude Modulation 1024-QAM



TRADITIONAL METHOD:

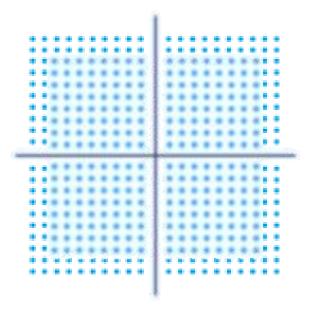
256 QAM



• 8 Bits to Induce capacity

NEXT GENERATION:

1024 QAM



Encoding 10 bits to enable25% higher Capacity

Key Benefits

- Increased network throughput
- Reduced congestion in high density deployment scenarios
- Faster data rates
- Better Quality of Service (QoS)

Role of STL





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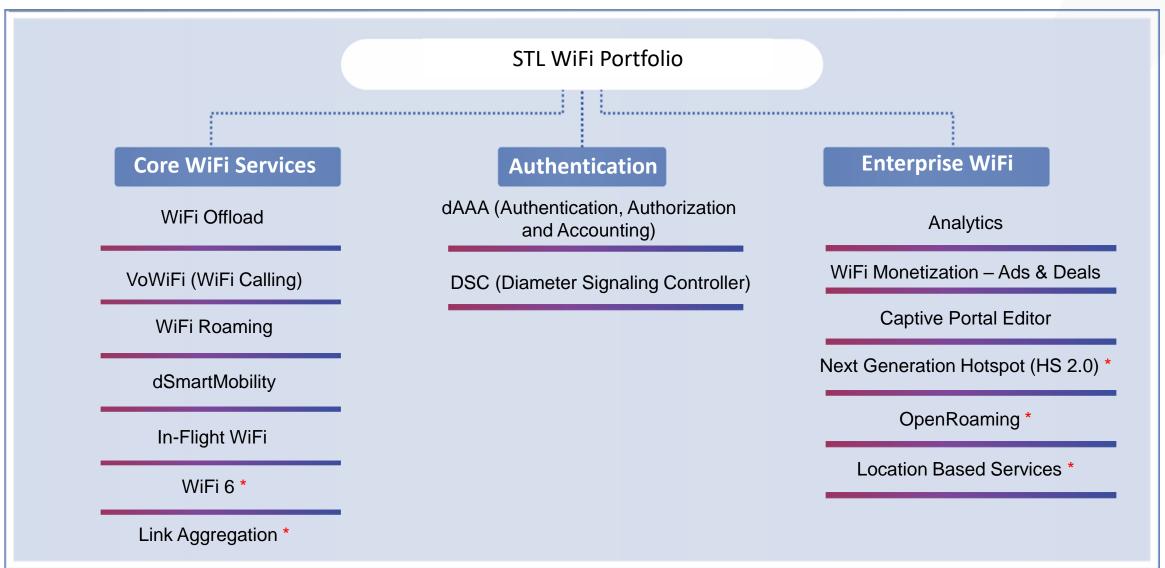
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Q&A

STL in the WiFi 6 space





STL dWiFi Excellence : Expertise & Experience



40+

Operators have chosen STL for WiFi deployments

2500

ISP & Hotspot deployments globally

TOP 3 TELECOM OPERATORS IN INDIA

dSmartMobility, VoWiFi, WiFi Monetization, AAA, Analytics

TOP TELECOM OPERATOR IN DUBAI

WiFi Monetization, dAAA, Captive Portal Editor, Analytics

TOP TELECOM OPERATORS IN SOUTH EAST ASIA

WiFi Monetization, dAAA, Captive Portal Editor, Advertisement, Analytics

STL open and virtualized RAN solutions to enable 5G



PRODUCTS

Software:

- O-CU
- O-DU
- RIC
- Orchestrator

Hardware:

- Small cell Indoor,
 Outdoor and Macro RU
- COTS servers
- Switches
- Passive components

SERVICES

E2E integration & managed services

- Design
- Build
- Manage

USE CASES

- Small Cells
- Network Slicing
- Mobile load balancing
- Fixed wireless access

Our 5GNR Sub 6GHz Radio Portfolio



4G vRAN ready supporting 7.2x and split 2 RU with software upgrade to 5G NR

Indoor Small Cell



- SMB Indoors
- 1W 4x4 MIMO

Outdoor Small Cell



- Attach Outdoor
- 20W 4x4 MIMO

Dual/Triband Macro Radio



- Multi Band RU
- 160W 4x4 MIMO
- 320W 4x4 MIMO

1
Own Hardware
And Software

2 Ability To Provide Scaled Solutions

3 E2E Offering - Greater Control

4 Cloud Native Solutions



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