

dSmartMobility

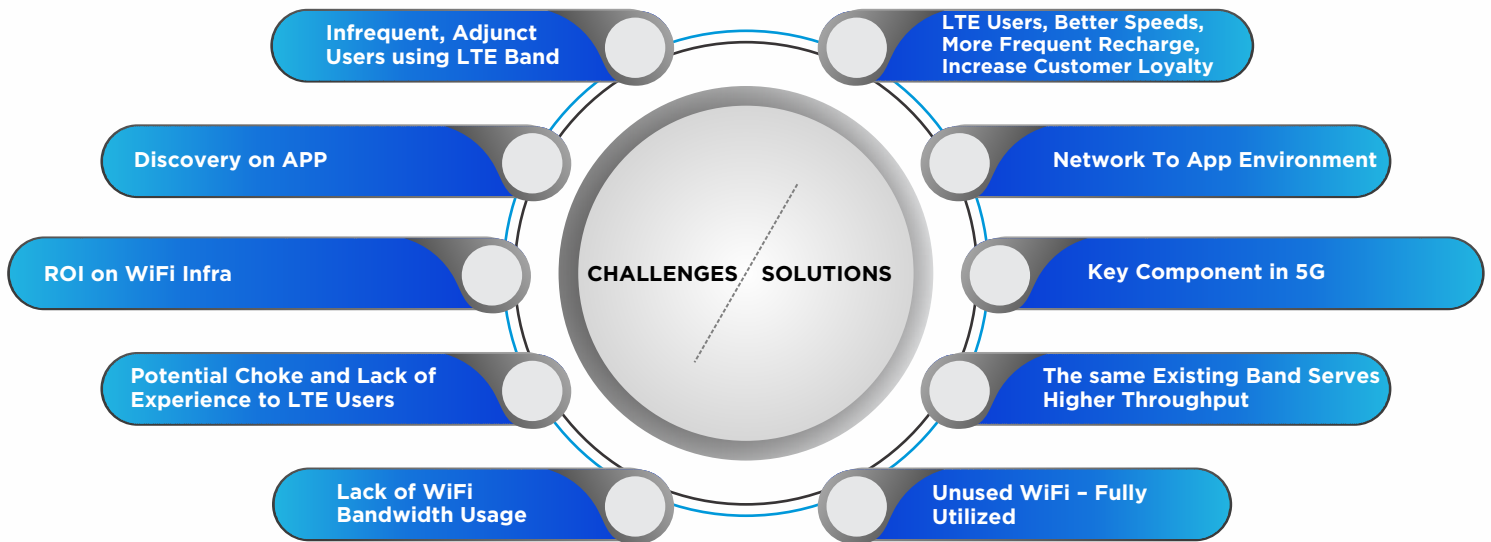


Rise in Smart & IoT devices has increased the data traffic over cellular networks, creating demand for faster data speeds. To counter this problem and for faster connectivity, CSPs used LTE due and marketed it heavily. As a result customers latched on it and created bandwidth choke.

Moreover, existing bandwidth of WiFi networks remain unused as it required marketing awareness and manually

switching from mobile data to WiFi by consumers. Return on Investment on WiFi infrastructure was already a question mark with these problems. Additionally, to use WiFi bandwidth CSPs already had a connection manager app which not only drains consumer's devices but also required manual consumer intervention to switch on the app and scan for networks.

CHALLENGES VS. SOLUTION



dSmartMobility - An Overview

dSmartMobility solution helps consumers automatically switch from LTE to WiFi networks based on signal strength, throughput, latency, jitter and packet-loss without manual intervention. Consumers can enjoy faster data speeds and enhanced voice quality using Trusted WiFi Hotspots compared to traditional LTE networks. dSmartMobility also helps to improve network selection, adds policy-control capabilities, enables smart decision making based on

analytics and collate to an ultimate user experience. The three enablers of intelligent offload in the dWiFi SMP are the dSmartMobility server, dSmartMobility SDK Client and Edge Analytics. dSmartMobility helps reduce the cost for the operators and the customers. The offloading allows CSPs the flexibility to add bandwidth and capacity, cost effectively, as the usage spikes in public areas.

Intelligent WiFi Offload is divided into three parts Smart and Intelligent Services, Network Analytics Service and Policy Management Service

NETWORK ANALYTICS SERVICE

Offers Location, Radio & Proximity Analytics, On/Off Network Data Usage and Enhances Subscriber Experience

SMART AND INTELLIGENT SERVICE

Offers Device Event Monitoring, Intelligent Rule/Automation Engine and Actions Framework



POLICY MANAGEMENT SERVICE

Offers Policy Pull/Fetch, Policy Caching, Policy Evaluation, QoE Measurement, Rove In/out

VALUE PROPOSITION

DATA MONETISATION

Increase No. of Recharges with Faster Data Speed of Automatic WiFi Offload

WiFi Adoption Increases Subscribers & Revenue in the Same Cell Site



COST REDUCTION

Reduce up to 30% of Operation Cost of LTE compared with WiFi Offloading

Reduce 50% of Infra Cost & Increase Coverage Area through WiFi compared to LTE



ACTIONABLE INSIGHTS

Discover Network Congestion Reasons for Quick Decision Making

New Hotspot Deployments based on Network Connectivity



CUSTOMER EXPERIENCE

Higher Data Speed Compared to LTE with Automatic Seamless Offload

Always Best Connected Network Even in Congested Areas



PLATFORM HIGHLIGHTS



300k

UNIQUE ACTIVE USERS



210k

UNIQUE WiFi OFFLOAD USERS/WEEK



8 TB

TOTAL DATA DOWNLOADED/WEEK OVER WiFi



420k

TOTAL NO. OF WiFi OFFLOAD SESSIONS/WEEK



60k

UNIQUE CLIENT REGISTRATION/WEEK



5K Hours

TOTAL WiFi OFFLOAD DURATION/WEEK

KEY FEATURES



BENEFITS

IMPROVES USER EXPERIENCE & CUSTOMER LOYALTY

Provides Always Best Connected Network & Faster Speed to Encourage Loyalty

NEW MONETISATION OPPORTUNITIES

Platform for Paid Advertising, Partnership Opportunities & Increase No. of Recharges with Faster Network Speed Creates More Revenue

LEVERAGE EXISTING INFRA

Use Existing Unused WiFi Bandwidth with LTE Network to Offload Users to WiFi, Accommodating More Users and Optimizing Network Capacity

ACTIONABLE MEANINGFUL INSIGHTS

Provides Insights in categories of Network & Policy, User Mobile Device & Location for Data Monetization, Network Optimization & Enhance User Experience

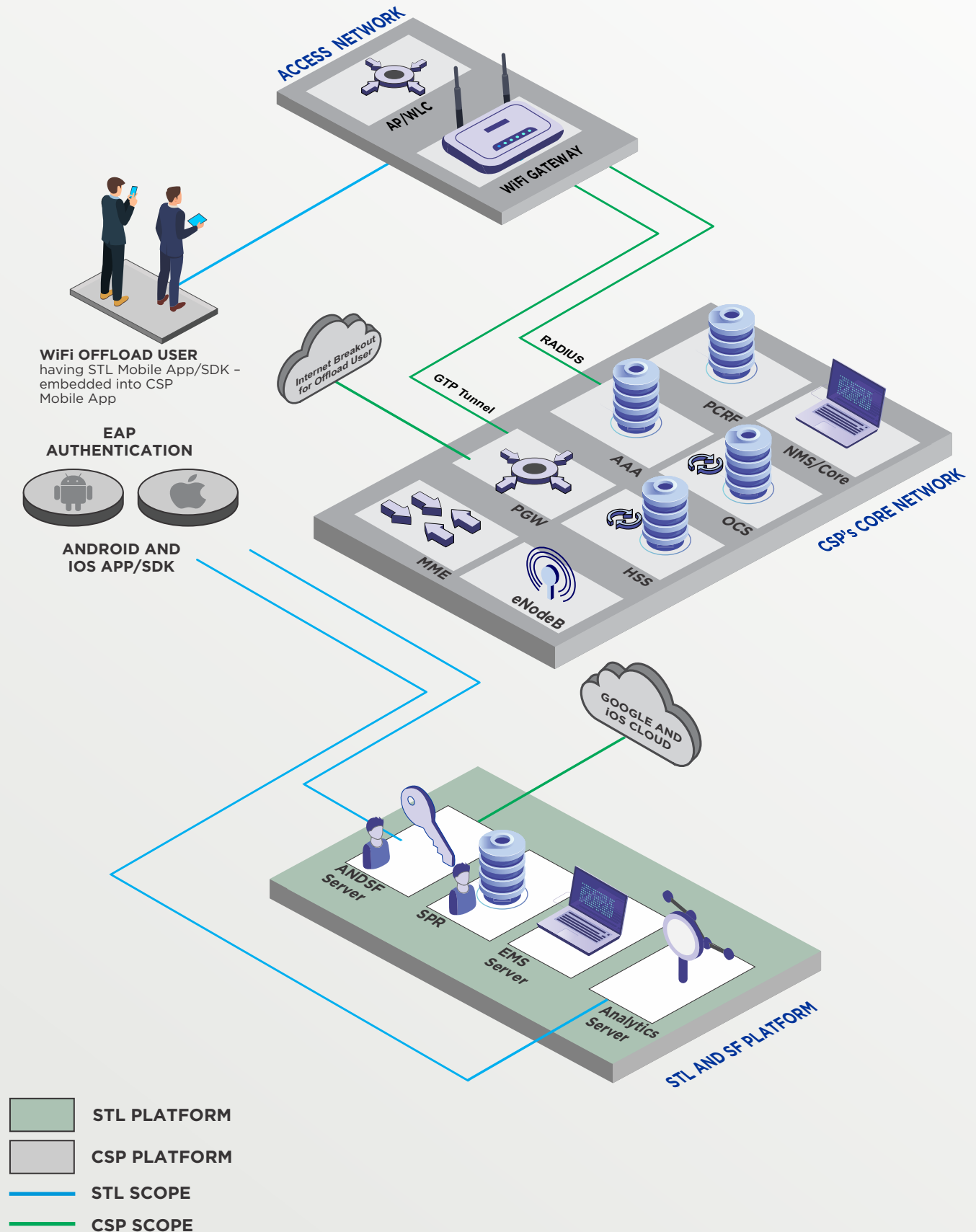
COST EFFICIENT

Save Infra Cost by Deploying WiFi Hotspots for WiFi Offloading at much Economical Rates Compared to New LTE Deployments

IMPROVES COVERAGE AREA

Alleviates 4G, 3G and 2G network clogging and augments cellular network capacity by offering reliable WiFi access with improvised coverage

ARCHITECTURE



USE CASES



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We design and deploy high-capacity converged fibre and wireless networks. With expertise ranging from optical fibre and cables, hyper-scale network design, and deployment and network software, we are the industry's leading integrated solutions provider for global data networks. We partner with global telecom companies, cloud companies, citizen networks and large enterprises to design, build and manage such cloud-native software-defined networks.

STL has innovation at its core. With intense focus on end-to-end network solutions development, we conduct fundamental research in next-generation network applications at our Centres of Excellence. STL has strong global presence with next-gen optical preform, fibre and cable manufacturing facilities in India, Italy, China and Brazil and two software-development centres.