Saankhya Labs

Multiply your network Capacity

Direct To Mobile (D2M) Broadcast Solutions
From Saankhya Labs

In today's fast-moving world, speed and 'unlimited' bandwidth is paramount for your network. With video occupying more than 70% of all data traffic, it has become imperative to have efficient networks with enough capacity to deliver content without congestion. This will enable mobile users to have an unmatched user experience and seamless connectivity. Future-ready Direct to Mobile (D2M) broadcast solutions from Saankhya Labs can accommodate your exhaustive bandwidth requirements, today and beyond.

The Direct To Mobile (D2M) Advantage

Ease network congestion

Monetize broadcast spectrum

Provide a smart data pipe for content

Provide live streaming on-the-go sans data caps

Improve user experience

Switch to a smarter network solution

Our Direct To Mobile Broadcast solution is a 5th-gen data transmission innovation developed to allow more devices to access voluminous data simultaneously, via a single broadcast. By using 'smart' pipes instead of 'fat' ones, we intelligently direct and route traffic across the network.

There are various deployment scenarios supported by Direct To Mobile (D2M) Broadcast

1. Standalone 'Cellularized' Broadcast Network - for providing content directly to mobile and other devices.
   A broadcaster can deploy our multi-channel small cell Broadcast Radio Heads (BRH), and provide a 'smart' pipe capable of delivering various content such as Linear TV, OTT, File Cast, etc, Direct To Mobile and other devices. This allows broadcasters to better monetize their broadcast network to deliver varied content and offer 'broadcast' as a service to other content providers.

2. Converged Broadband and Broadcast Networks - switching of data between broadcast and unicast networks
   The analytics engine continuously monitor heavy loads, viral social trends, and other content consumption patterns to make intelligent switching decisions that mitigate network congestions and bottlenecks. Broadcast/multicast traffic is then intelligently offloaded from unicast mobile networks to cellularized broadcast networks — massively reducing network congestion and enabling faster downloads, while also providing a better user experience for unicast as well as broadcast subscribers.

3. Supplemental Downlink for Mobile Network - The D2M Broadcast solution also allows broadcast network to be used as a supplemental downlink for mobile network.

Our D2M Broadcast solution is bolstered by an array of high-efficiency networking products designed and developed in-house:

- Low-power-low-tower (LPLT), Broadcast Radio Heads (BRH) co-located with mobile base stations to transmit data signals over the broadcast network
- Cloud-based Broadcast Offload Core, integrated with the Mobile Core using 5G network slicing to offload data to the broadcast network
- Analytics Engine to continuously monitor and analyze data traffic in the network and make intelligent switching decisions
- D2M receiver-enabled mobile devices to receive signals over both the broadcast and broadband network

About Saankhya Labs

Saankhya Labs (subsidiary of Tejas Networks) is a cutting-edge and future-ready team of veteran innovators and industry leaders, headquartered in India's Silicon Valley, Bengaluru. We push the envelope of innovation every day, through the deployment of various next gen communication solutions for the present and the future. We create innovative products and solutions for:

5G RAN

Direct To Mobile (D2M)

Defense and Strategic Communication

Satellite IoT solutions

Fixed Wireless Access

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