

Saankhya Labs S





User Experience Enablers to consider for Direct-to-Mobile (D2M) Success in India

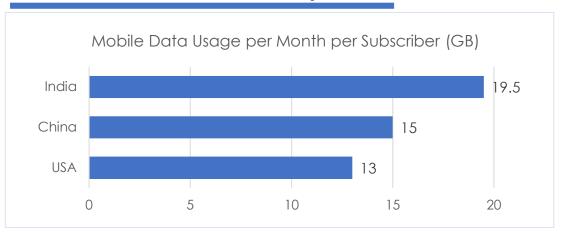
v1.1

Sesh Simha

D2M India Vision & Mission Statement



India Mobile Data Consumption



- Total mobile data consumed in India is expected to more than double by 2024¹
- 70% of traffic is Video traffic. Video traffic is consumed more in the rural parts than in the urban parts of the country
- Consumption is primarily restricted by mobile data price, which have been steadily increasing since late 2019

Mission and Vision

D2M as a Digital Public Good Service can enable direct broadcasting of video/data to mobile devices and other smart devices at a low cost thus widening accessibility

210 Million



1150 Million



Source: 1) Nokia: India Mobile Broadband Index 2023

What is D2M?....Direct to Mobile



- D2M is DTT re-invented for the mobile and converged telecom era
- D2M is the addition of a UHF-based broadcast/multicast Standalone
 Downlink Only distribution to offload broadcast-optimized traffic
- The SDO Network is largely cell-based broadcast utilizing cell class radios collocated at cell towers using Single Frequency Networking
 - High tower transmission will supplement coverage
- D2M utilizes a RedCap version of ATSC3, which
 - Interworks with the 3GPP RAN in the consumption device
 - Utilizes 5G service layers
 - Is converged with the 5G Network
- FROM RADIO TO SERVICE STACK AND USER INTERFACE, THE USER EXPERIENCE ACROSS BROADBAND AND BROADCAST IS SEAMLESS

WHAT D2M IS NOT

WHAT D2M IS



- NOT JUST Television Broadcasting
- NOT JUST Isolated Transmitters and multiplexers
- NOT JUST Scanning and electronic service guides
- NOT JUST "Antenna TV"
- NOT JUST High towers

IS ALSO Telecom

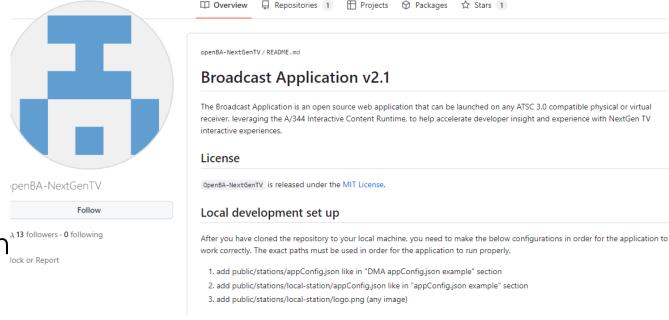
- IS Downlink supplement to unicast delivery
- IS Virtual core, cloud based
- IS High and low towers
- IS Tight integration with 5G System
- IS AI-based offload and onload
- IS Tight interworking in consumption device between OTT and broadcast
- IS Apps! Apps! Apps!

Sinclair Broadcast App Open-Source Web Application



https://github.com/openBA-NextGenTV

- Delivered over the air
- Completely interactive
- Merged DTT/D2M and OTT
- Maximizes screen space for programming and ancillary services like weather, alternate programming and advertising
- Permits the viewer to control which lock or Report services to watch no matter the source
- Multiplatform TV or smartphone
- Offered for free via an MIT Open-Source license



In conclusion the REAL USER EXPERIENCE ENABLERS ARE...



- User experience MUST be seamless across broadcast and broadband on ANY device consuming media
- Service evolution MUST be multiplatform
- All and extended reality technologies MUST be part of 5G Stack
- Barriers MUST fall between broadcast and broadband ecosystem in every area – technical, regulatory, political
- Broadcast industry MUST be involved in telecom industry and standards making bodies and vice versa





info@saankhyalabs.com

SSIMHA@SBGTV.COM

