

Importance of Maintaining Broadcast Services in Rel-17 NR MBS

CBN, ABS, ABP, China Telecom, China Unicom, Reliance Jio

Broadcast is essential to NR MBS



- SA2 is debating whether broadcast (for other use cases than the ones excluded already for Rel-17) should be further down-scoped in Rel-17 for remaining broadcast requirement in the SID. Some companies have provided solutions on broadcast (which are documented in the TR).
- NR MBS with only multicast is just a feature improving network efficiency. With Broadcast, NR MBS creates new business models serving more scenarios, as well as enabling the 5G refarming of the broadcast-dedicated spectrum in many countries.
- Down-scoping broadcast will cause NR MBS incapable to deal with emerging demand in many new businesses for 5G NR.

■ NR Broadcast: Enable new business cases



- **Public Services**

- Government and public service entities have urgent demand for 5G-enabled innovative ways of communicating with citizens. Broadcast shall be adopted to more efficiently deliver real-time emergency multi-media notifications to a wide variety of devices under the scope of public safety (like disaster warning, security, pandemic control, etc.).

- **Multimedia Live Streaming in crowded activities(Concerts/Sport Games)**

- Innovative broadcast services like Multi-angle live viewing, game statistics broadcasting, XR enhanced viewing, etc. Broadcast mode is essential for such high-bitrate-high-concurrency services. **CBN is planning to showcase innovative NR MBS broadcast services in Beijing Olympic Winter Games 2022.**

NR Broadcast: Enable new business cases



- Massive IoT
 - Identical content needs to be distributed to a massive number of devices like smart home appliances. It is inefficient to use unicast for this, but ideal for broadcast. It makes OTA (over-the-air) firmware upgrades/group messaging/etc. much more efficient.
- V2X
 - Broadcast enables vehicles to efficiently communicate with the network and its surroundings, making the network to more efficiently deliver real-time information, such as software and traffic updates, as well as the emergency Multi-media notifications to the vehicle driver/passengers.