

The EBU logo consists of the letters 'EBU' in a bold, white, sans-serif font. The background of the slide is a photograph of a modern glass-walled building with several satellite dishes mounted on its roof, set against a clear blue sky. A semi-transparent dark blue circle is positioned on the right side of the image.

EBU

OPERATING EUROVISION AND EURORADIO

[SP-210645]

CONSIDERATIONS ON 3GPP RELEASE 18 FOR CONTENT DISTRIBUTION

EBU INPUT TO 3GPP REL-18 SA WORKSHOP

General Points

- Unified Service Layers are vital
 - Alignment between broadcast and unicast (Internet) protocols for media delivery
 - Potential role of initiatives such as DVB-I for extension to Rel-18
 - Service continuity between broadcast/unicast
 - Seamless usage of LTE-based 5G Terrestrial Broadcast and (NR) unicast
- This is a collection of ideas around service requirements and enhancements presented by individual EBU members

5G Broadcast: LTE-based 5G Terrestrial Broadcast

• Service Requirements

- Connection of EnTV RAN (FeMBMS) to 5G Core [SA2?]
 - Enables MNOs to make use of EnTV features (in addition to Broadcast Network Operators)
- Public Warning capability [SA2?]
 - Operation independent of unicast (receive-only broadcast)
 - Study the applicability of existing MNO-centric 3GPP systems (e.g. ETWS/PWS/CMAS?)
 - Consider support of other signalling mechanisms available in existing broadcast systems
 - e.g. DAB/FM-RDS traffic announcements
- Support for low-latency streaming [SA4?]
 - CMAF, look at applicability of e.g. ROUTE compared with FLUTE.
- Specification of a minimum set of audio/video codecs on UEs [SA4]
 - Negotiation of capabilities not possible in a downlink-only scenario
 - Codec support in hardware ensures best performance

5G for Media Distribution over Mobile Networks

- 5MBS: 5G Multicast/Broadcast
 - Seen as having a role to optimise delivery over existing mobile networks if/where there are capacity constraints
- **Service Requirements**
 - Universal Access [SA1,SA2]
 - Receive-only mode/Free-to-air for 5MBS [SA2]
 - Examine alternative approaches (multicast/broadcast and unicast)
 - e.g. 5G Networks Providing Access to Localized Services (FS_PALS) [SA1]
 - Extension of EnTV Service Layer to 5MBS [SA4]
 - If not completed in Release 17