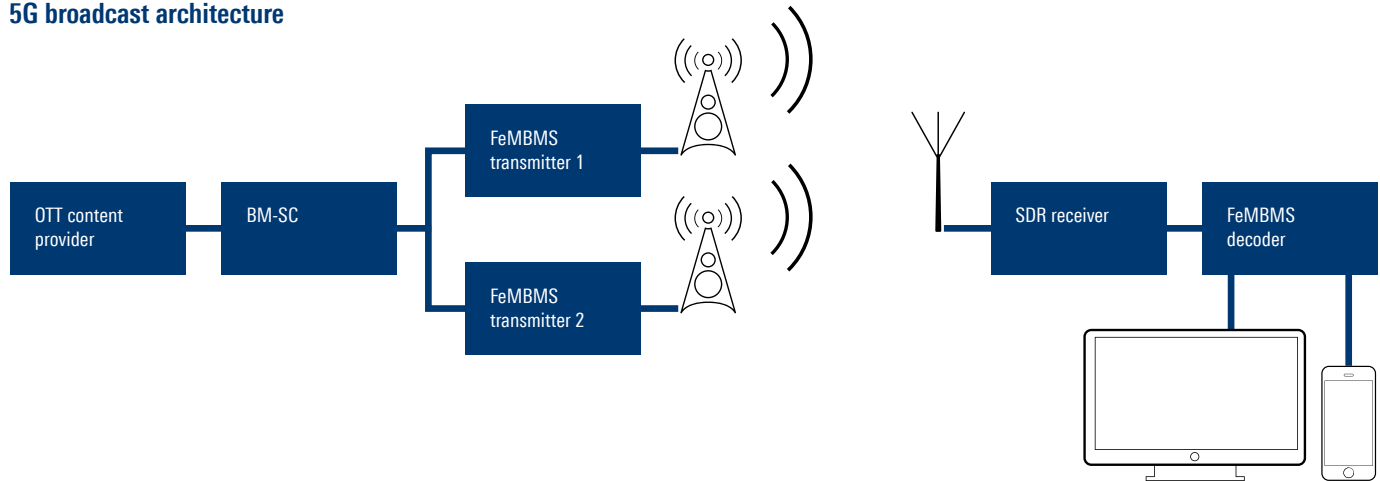


LTE/5G BROADCAST TRIAL PLATFORM

5G broadcast is a technology that introduces a new era for media delivery and for quality of experience (QoE). In order to discover it, Rohde & Schwarz provides a 5G broadcast trial platform for network operators.

5G broadcast architecture



FeMBMS transmitter

The FeMBMS physical layer is implemented by the server based exciter solution, consisting of the R&S®SDE900 server unit and the R&S®TCE901 exciter. The R&S®SDE900 has a purely software defined approach that ideally prepares network operators for future signal processing requirements. Based on a high-performance server, it supports the FeMBMS physical layer as defined in 3GPP Release 14.

The R&S®SDE900 is designed as a plug-in, rackmount module for the R&S®Tx9 generation of transmitters. Its software defined encoder generates the I/Q modulation data. The field-proven R&S®TCE901 exciter generates the COFDM waveform based on the I/Q data.

Features

- ▶ FeMBMS physical layer Release 14
- ▶ M1 interface to the core network
- ▶ SYNC protocol as part of the M1 interface to enable SFN operation
- ▶ Static configuration without the need of an M2 interface

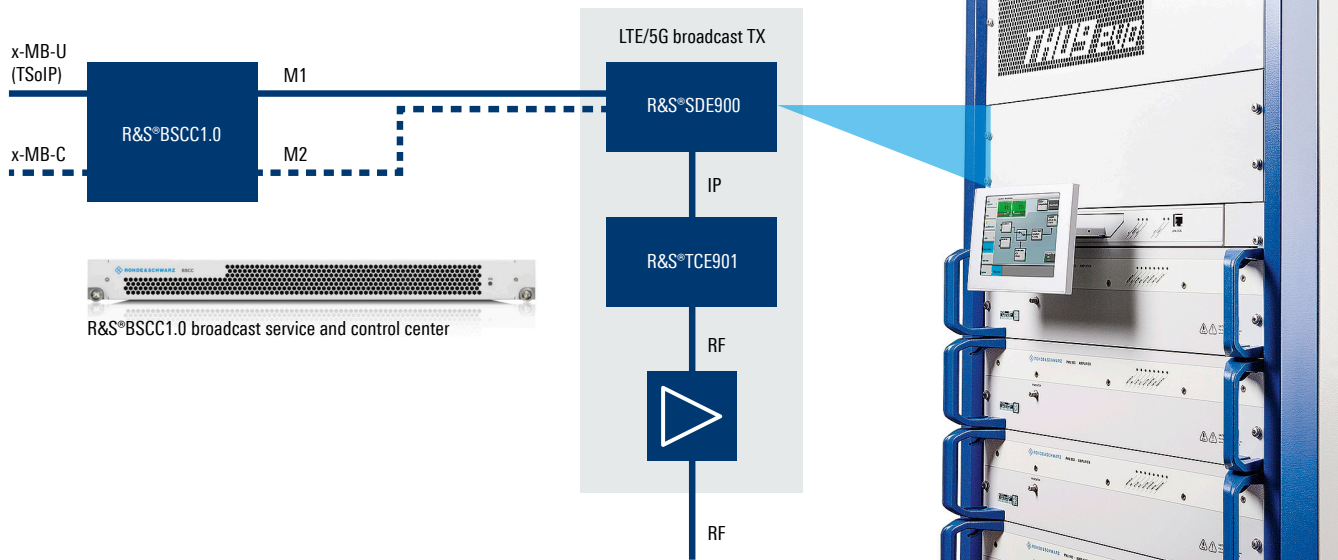
Product Flyer
Version 01.00

ROHDE & SCHWARZ

Make ideas real



5G trial platform for the R&S®Tx9 transmitter family



Broadcast service and control center

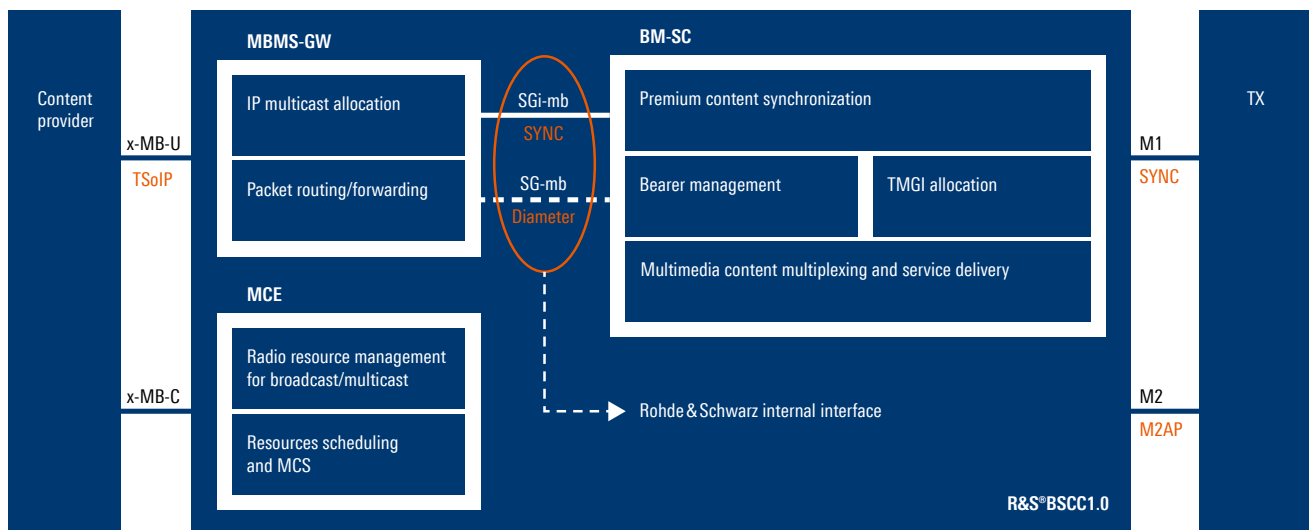
Running as a part of the core network, the R&S®BSCC1.0 broadcast service and control center, including the broadcast multicast service center (BM-SC), is a new solution that enables the delivery of multimedia content over LTE/5G networks in broadcast mode. It encapsulates multimedia content into specific FeMBMS bearers to be delivered from the evolved packet core (EPC) down to the receiver.

It allows content providers to deliver high data rate content to their mobile users simultaneously with consistent quality of service (QoS). This results in higher quality of experience (QoE), spectral efficiency and reduced costs.

The software defined R&S®BSCC1.0 supports the latest approved 3GPP Release 14, which allows operators to roll out advanced FeMBMS services that mix potentially different types of media over networks with hybrid unicast/broadcast coverage.

For trial purposes, the R&S®BSCC1.0 implements the MBMS-GW and BM-SC 3GPP instances with a static configuration of MCE. It is mainly used to deliver multimedia contents from content providers with a maximum of 31 Mbit/s using a flexible number of bearers. This makes it possible to launch mobile TV services for broadcast network operators.

R&S®BSCC1.0 broadcast service and control center as a part of the core network



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