

System configuration

Test cases for the certification of base stations

The R&S®TS897EBS1 test case bundle contains the following Wave 1 test cases:

New reference	Test case designation	Ping	MAC-CRC	AMC	MIMO	CRC
BS transmitter tests						
BS-07.1	BS transmit modulation and coding	● ¹⁾	EBS2 ²⁾			
BS-08.1	BS transmit cyclic prefix, symbol timing and frame duration timing					
BS-09.1	BS transmit preambles					
BS-10.1	BS transmit power range					
BS-11.1	BS transmit spectral flatness			EBS2 ²⁾		
BS-12.1	BS transmit relative constellation error			EBS2 ²⁾		
BS receiver tests						
BS-01.1	BS receive maximum tolerable signal	● ¹⁾	EBS2 ²⁾			● ¹⁾
BS-03.1	BS receive ranging support					
BS-04.1	BS receive adjacent and non-adjacent channel selectivity	● ¹⁾	EBS2 ²⁾			● ¹⁾
BS-05.1	BS receive maximum input level on-channel reception tolerance	● ¹⁾	EBS2 ²⁾			● ¹⁾
BS-06.1	BS receive sensitivity	● ¹⁾	EBS2 ²⁾			● ¹⁾
BS performance tests						
BS-13.1	BS synchronization					
BS-14.1	BS receive and transmit HARQ					
BS-16.1	BS receive/transmit switching gap	● ¹⁾	EBS2 ²⁾			

The R&S®TS897EBS2 test case bundle contains the following Wave 2 Phase 1 test cases:

New reference	Test case designation	Ping	MAC-CRC	AMC	MIMO	CRC
BS transmitter tests						
BS-19.2	BS transmit MIMO processing				EBS2 ²⁾	
BS receiver tests						
BS-18.2	BS receive collaborative MIMO		EBS2 ²⁾		EBS2 ²⁾	

¹⁾ Feature is part of the R&S®TS897EBS1 functionality.

²⁾ The properties MAC-CRC, AMC and CRC are mandatory only in the Wave 2 version of these test cases. They may be set to active if the R&S®TS897EBS2 option is installed on the R&S®TS8970.

Test cases for the certification of mobile stations

The R&S®TS897EMS1 test case bundle contains the following Wave 1 test cases:

New reference	Test case designation	Ping	ACK/NACK	AMC	MIMO	CRC
MS transmitter tests						
MS-12.1	MS transmit modulation and coding, cyclic prefix and frame duration timing	● ³⁾		EMS2 ⁴⁾		
MS-13.1	MS transmit ranging support					
MS-15.1	MS transmit power dynamic range					
MS-16.1	MS transmit closed and open loop power control					
MS-17.1	MS transmit spectral flatness			EMS2 ⁴⁾		
MS-18.1	MS transmit relative constellation error					
MS-19.1	MS transmit synchronization					
MS receiver tests						
MS-01.1	MS receive maximum tolerable signal	● ³⁾	EMS2 ⁴⁾			
MS-02.1	MS receive preambles DL					
MS-04.1	MS receive RSSI measurements					
MS-05.1	MS receive PCINR measurements					
MS-07.1	MS receive adjacent and non-adjacent channel selectivity	● ³⁾	EMS2 ⁴⁾			
MS-08.1	MS receive maximum input signal	● ³⁾	EMS2 ⁴⁾			
MS-09.1	MS receive sensitivity	● ³⁾	EMS2 ⁴⁾	EMS2 ⁴⁾		EMS2 ⁴⁾
MS-11.1	MS receive PHY support for handoff					
MS performance tests						
MS-10.a1	MS transmit HARQ					
MS-10.b1	MS receive HARQ	● ³⁾	EMS2 ⁴⁾			
MS-20.1	MS transmit/receive switching gap					

The R&S®TS897EMS2 test case bundle contains the following Wave 2 Phase 1 test cases:

New reference	Test case designation	Ping	ACK/NACK	AMC	MIMO	CRC
MS transmitter tests						
MS-24.2	MS transmit collaborative MIMO				EMS2 ⁴⁾	
MS receiver tests						
MS-02.2	MS receiver preambles full band					
MS-06.2	MS receiver pilot-based ECINR measurement					
MS-11.2	MS receiver PHY support for inter-FA handoff					
MS-22.2	MS receiver MIMO processing				EMS2 ⁴⁾	

³⁾ Feature is part of the R&S®TS897EMS1 functionality.

⁴⁾ The properties AMC, ACK/NACK and CRC are mandatory only in the Wave 2 version of these test cases. They may be set to active if the R&S®TS897EMS2 option is installed on the R&S®TS8970.