5G Conformance 3GPP Testing Areas

MOBILEG4U

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3rd Generation Partnership Project (3GPP) defines technical specifications for mobile communication systems, including 5G.

5G conformance testing is important to ensure that devices comply with 3GPP technical specifications and meet performance requirements

Radio Frequency (RF) Conformance

This testing area focuses on ensuring that devices meet the minimum RF performance requirements specified by 3GPP. RF testing includes measurements of transmitter output power, receiver sensitivity, and other RF parameters.

Protocol Conformance

This testing area verifies that the device's implementation of the 5G protocol stack conforms to the 3GPP specifications. Protocol testing includes testing of various layers of the protocol stack, including the physical layer, the data link layer, the network layer, and the transport layer.

Radio Resource Management (RRM) Conformance:

This testing area focuses on ensuring that devices are able to effectively manage radio resources in a 5G network. RRM testing includes testing of functions such as radio link monitoring, handover, and power control.

Radio Performance:

This testing area verifies that devices meet the performance requirements for different radio environments, such as different signal strengths and interference levels.

Radio performance testing includes testing of throughput, latency, and other performance metrics.

Radio Conformance:

This testing area ensures that devices comply with 3GPP specifications for different radio technologies, such as Frequency Range 1 (FR1) and Frequency Range 2 (FR2). Radio conformance testing includes testing of features such as beamforming and carrier aggregation.

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THANKS