5G TTCN-3 Test Cases Examples

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1. Registration Test Case:

This test case verifies that the UE can successfully register with the 5G network. It involves sending a registration request from the UE to the network and verifying that the network responds with a registration acceptance message.

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2. Handover Test Case:

This test case verifies that a handover from one 5G cell to another is successful. It involves simulating a handover scenario, where the UE is moved from one cell to another, and verifying that the network and UE maintain the connection without any disruption.

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3. QOS Test Case:

This test case verifies that the network can provide the required quality of service (QoS) for a specific application. It involves setting up a test scenario where the UE is running a data-intensive application, such as video streaming, and verifying that the network can deliver the required bandwidth and latency.

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4. Paging Test Case:

This test case verifies that the UE can successfully receive a paging message from the network. It involves simulating a paging scenario, where the network sends a paging message to the UE, and verifying that the UE receives the message and responds appropriately.

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5. Security Test Case:

This test case verifies that the 5G network provides adequate security measures to protect against unauthorized access and attacks. It involves simulating various security threats, such as hacking and interception, and verifying that the network can detect and prevent these threats.

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These are just a few examples of the many types of test cases that can be written using TTCN-3 for 5G networks. The specific test cases will depend on the requirements of the network and the application being tested.

Thank You

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