

CLAIMS:

1. A remote unit comprising a processor, and a plurality of terminal interfaces, for coupling the remote unit with a set of two or more terminals, the processor being connected to the plurality of terminal interfaces, the terminal interfaces being configured for coupling with the set of terminals, wherein the processor is configured to:

perform a quality of service network test over a first communication network at a said geographic location using a first terminal of the set of terminals to generate first test results, wherein the first terminal is associated with the first communication network; and

to concurrently perform the quality of service network test over a second communication network at the said geographic location using a second terminal of the set of terminals to generate second test results for comparison with the first test results, wherein the second terminal is associated with the second communication network.

2. A remote unit as claimed in claim 1, wherein the quality of service network test is an end-to-end quality of service network test performed over one or more communication networks using at least two terminals of the set of terminals.

3. A remote unit as claimed in claim 1 or claim 2, wherein the quality of service network test comprises an outgoing or incoming call quality of service network test.

4. A remote unit as claimed in any one of the preceding claims, wherein the quality of service network test comprises an outgoing or incoming text message and/or a data message quality of service network test.

5. A remote unit as claimed in any one of the preceding claims, wherein the processor is further configured to perform two or more quality of service network tests substantially concurrently over the first and second communication network using the first terminal of the set of terminals and the second terminal of the set of terminals respectively.

6. A remote unit as claimed in claim 5, wherein the two or more quality of service network tests performed substantially concurrently include testing an outgoing or incoming call and a data message or session substantially concurrently.

7. A remote unit as claimed in claim 6, wherein a data session includes one or more of: uploading, downloading, messaging, browsing, accessing the internet streaming.

8. A remote unit as claimed in any one of the preceding claims, wherein the remote unit is a first remote unit, the said geographic location is a first geographic location, the set of terminals are a first set of terminals, and a second remote unit comprising interfaces for connecting to a

second set of terminals is located in a second geographic location, wherein the processor of the first remote unit is further configured to conduct a quality of service network test with the second remote unit using one or more terminals of the first set of terminals and one or more terminals of the second set of terminals over one or more communication networks.

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9. A remote unit as claimed in claim 8, wherein the processor is further configured to perform an end-to-end quality of service network test over one or more communication networks using the first terminal of the first set of terminals in communication with a third terminal of the second set of terminals.

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10. A remote unit as claimed in any one of the preceding claims 1 to 7, wherein the remote unit is a first remote unit, wherein the processor of the first remote unit is further configured to conduct a quality of service network test with a second remote unit using one or more of the set of terminals over one or more communication networks, wherein the second remote unit is a virtual remote unit.

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11. A remote unit as claimed in any one of the preceding claims, wherein the set of terminals include one or more of:

a handset;

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a mobile device;

a mobile phone;

a mobile station;

a smartphone;

a user equipment;

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original equipment manufacturer terminal;

machine to machine embedded terminal;

a tablet configured to communicate over the one or more communication networks;

a laptop configured to communicate over the one or more communication networks.

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12. A remote unit as claimed in any one of the preceding claims, wherein the set of terminals are off-the-shelf or non-custom made, standardized terminals provided by one or more network operators for use by consumers or subscribers of the two or more communication networks.

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13. A remote unit as claimed in any one of the preceding claims, wherein the remote unit is configured to receive one or more network tests associated with one or more quality of service network test.

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14. A remote unit as claimed in any one of the preceding claims, wherein the quality of service network test includes any one or more of call set up delay, connect/disconnect delay, transmission delay, total failures, call drops, failure to progress, voice quality, video quality,

conversation latency, echo, bit rate, error rate, bandwidth, jitter, delay, latency, packet loss, signal strength.

15. A remote unit as claimed in any one of the preceding claims, wherein the remote unit is configured to send the first test results and the second test results to one or more control units for comparing the quality of service network performance of the first communication networks.

16. A control unit comprising a processor and a communications interface, the processor connectable to the communications interface, wherein when connected the processor and communications interface are configured to:

receive one or more network tests associated with quality of service testing of two or more of the communication networks;

control a remote unit according to any one of the preceding claims 1 to 15 to perform a quality of service network test over a first communication network and a second communication network based on the one or more network tests;

retrieve test results associated with the one or more network tests from one or more of the remote units; and

analyse the received test results to comparing a quality of service performance of the first communication network and a quality of service performance of the second network.

17. A computer-implemented method for controlling a network testing system, the network testing system comprising one or more control units and a plurality of remote units, a first remote unit of the plurality of remote units comprising a set of two or more terminals, wherein the set of terminals comprises a first terminal configured to communicate over a first communication network and a second terminal configured to communicate over a second communication network, the method, performed by the control unit, comprising:

receiving an input to perform one or more network tests;

generating a list of tests based on the one or more network tests;

sending the list of tests to one or more of the remote units, including the first remote unit, for use in configuring the set of terminals to perform the one or more network tests and generate test results associated with the one or more network tests;

receiving test results associated with the one or more network tests from one or more of the remote units, including the first remote unit; and

analysing the test results associated with the one or more network tests for comparing a quality of service network performance of the first communication network and a quality of service performance of the second communication network.

18. A computer implemented method for performing network testing in a network testing system, the network testing system comprising a control unit and a plurality of remote units, each remote unit comprising a first terminal and a second terminal, wherein the first terminal is

configured to communicate over a first communication network and the second terminal is configured to communicate over a second communication network, the method, performed by a remote unit, comprising:

receiving a list of tests based on one or more network tests;

5 configuring the first terminal of the remote unit to operate in the first communication network in accordance with the list or tests to generate first test results;

 configuring the second terminal of the remote unit to operate in the second communication network in accordance with the list or tests to generate second test results;

10 receiving the first test results and the second test results from the first and second terminals of the remote unit;

 sending the first and second test results associated with the one or more network tests towards the control unit for comparing a quality of service performance of the first communication network and a quality of service performance of the second communication network.

15 19. A computer readable medium comprising program code stored thereon which, when executed on a processor, causes the processor to perform a method according to claim 17.

 20. A computer readable medium comprising program code stored thereon which, when executed on a processor, causes the processor to perform a method according to claim 18.