

CLAIMS

What is claimed is:

1. A communication method for an access network, comprising:

receiving, ~~by an access network device~~, first configuration information, wherein the first configuration
5 information indicates a terminal device to perform application layer quality of experience, QoE, measurement;

generating, ~~by the access network device~~, second configuration information, wherein the second configuration
information is used by the access network device to indicate the terminal device to report measurement results of at
~~least a part~~ some or all of measurement metrics obtained through the QoE measurement; and

sending, ~~by the access network device~~, the first configuration information and the second configuration
10 information to the terminal device.

~~2. The method according to claim 1, wherein the second configuration information further comprises a
configuration of a reporting event for the measurement metrics, wherein the reporting event is that measurement values
of the measurement metrics are higher than a first threshold or the measurement values of the measurement metrics
are lower than a second threshold.~~

~~3. The method according to claim 1 or 2, wherein the second configuration information further comprises first
indication information, and the first indication information indicates the terminal device to report the measurement
values of the some or all of measurement metrics.~~

~~4. The method according to any one of claims 1 to 3~~ claim 1 or 2, wherein the second configuration information
further comprises a reporting period for reporting the measurement results of the some or all ~~at least a part~~ of
20 measurement metrics by the terminal device.

~~5. The method according to any one of claims 1 to 4, further comprising:~~

receiving, by the access network device, second indication information from the terminal device or a core network
device, wherein the second indication information indicates a service type for which the terminal device prefers to
perform QoE measurement, indicates that the terminal device prefers to perform QoE measurement, or indicates a
25 measurement metric on which the terminal device prefers to perform QoE measurement.

~~6. The method according to any one of claims 1 to 4, further comprising:~~

receiving, by the access network device, third indication information from the terminal device, wherein the third
indication information indicates a service type for which the terminal device prefers to perform QoE measurement,
indicates that the terminal device prefers to perform QoE measurement, or indicates a measurement metric on which
30 the terminal device prefers to perform QoE measurement; and

~~sending, by the access network device, the third indication information to a core network device.~~

74. The method according to any one of claims 1 to 63, wherein the generating, ~~by the access network device,~~
second configuration information comprises:

receiving, ~~by the access network device,~~ fourth indication information from the core network device, an operation,
5 administration and maintenance, OAM, or an element manager, wherein the fourth indication information indicates at
least one measurement metric measured by the terminal device when the terminal device performs the QoE
measurement; and

generating, ~~by the access network device,~~ the second configuration information based on the fourth indication
information.

10 85. The method according to any one of claims 1 to 74, further comprising:

receiving, ~~by the access network device,~~ the measurement results of the some or all ~~at least part~~ of measurement
metrics from the terminal device, wherein the measurement results of the measurement metrics comprise at least one
of the reporting event, the measurement values of the measurement metrics, or a measurement result obtained through
the QoE measurement.

15 96. The method according to any one of claims 1 to 85, further comprising:

receiving, ~~by the access network device,~~ a first message sent by the terminal device, wherein the first message
comprises the measurement results of the some or all ~~at least part~~ of measurement metrics and the measurement result
obtained through the QoE measurement.

107. The method according to any one of claims 1 to 96, wherein the measurement metric comprises at least one
20 of an average throughput, an initial playout delay, a buffer level, a playout delay, a deterioration duration, a number
of successively lost packets, a jitter duration, a synchronization loss duration, a round-trip time delay, an average
bitrate, and a presentation delay.

118. A communication method for a terminal device, comprising:

receiving, by an access stratum of ~~a~~ the terminal device, first configuration information from a first access
25 network device, wherein the first configuration information indicates the terminal device to perform application layer
quality of experience, QoE, measurement;

receiving, by the access stratum, second configuration information from the first access network device, wherein
the second configuration information is used by the access network device to indicate the terminal device to report
measurement results of some or all ~~at least a part~~ of measurement metrics obtained through the QoE measurement;

30 sending, by the access stratum, first information to an upper layer of the access stratum based on the first
configuration information, wherein the first information indicates the upper layer to perform the application layer

quality of experience QoE measurement; and

sending, by the access stratum, second information to the upper layer of the access stratum based on the second configuration information, wherein the second information indicates the upper layer to report the measurement results of the some or all at least part of measurement metrics obtained through the QoE measurement.

12. The method according to claim 11, wherein the second configuration information further comprises a configuration of a reporting event for the measurement metrics, wherein the reporting event is that measurement values of the measurement metrics are higher than a first threshold or the measurement values of the measurement metrics are lower than a second threshold.

13. The method according to claim 12, further comprising:

when the measurement values of the measurement metrics satisfy the reporting event, sending, by the upper layer, the measurement results of the at least part of measurement metrics to the access stratum, wherein the measurement results of the measurement metrics comprise the reporting event or a measurement result obtained through the QoE measurement; and

sending, by the access stratum, the measurement results of the at least part of measurement metrics to a second access network device.

14. The method according to any one of claims 11 to 13 claim 8, wherein the second configuration information further comprises first indication information, and the first indication information indicates the terminal device to report the measurement values of the some or all of measurement metrics.

15. The method according to any one of claims 11 to 14 claim 8 or 9, wherein the second configuration information further comprises a reporting period for reporting the measurement results of the some or all at least part of measurement metrics by the terminal device.

16. The method according to any one of claims 11 to 15, further comprising:

sending, by the terminal device, second indication information to the first access network device or a core network device, wherein the second indication information indicates a service type for which the terminal device prefers to perform QoE measurement, indicates that the terminal device prefers to perform QoE measurement, or indicates a measurement metric on which the terminal device prefers to perform QoE measurement.

17. The method according to any one of claims 11 to 16 claim 8, further comprising:

sending, by the upper layer, a first message to the access stratum, wherein the first message comprises the measurement results of the some or all at least part of measurement metrics and the measurement result obtained through the QoE measurement; and

sending, by the access stratum, the first message to a third access network device.

~~18~~12. The method according to any one of claims ~~11-8~~ to ~~17~~11, wherein the measurement metric comprises at least one of an average throughput, an initial playout delay, a buffer level, a playout delay, a deterioration duration, a number of successively lost packets, a jitter duration, a synchronization loss duration, a round-trip time delay, an average bitrate, and a presentation delay.

5 13. A communication apparatus, characterized by comprising one or more units configured to perform the method according to any one claims 1 to 12.

14. A computer-readable storage medium comprising instructions which, when executed by a computer, cause the computer to carry out the method of any one of claims 1 to 12.

10 15. A computer program product comprising instructions which, when executed by a computer, cause the computer to carry out the method of any one of claims 1 to 12.

~~19. A wireless communication apparatus, comprising:~~

~~a unit configured to perform the method according to any one of claims 1 to 10; or~~

~~a unit configured to perform the method according to any one of claims 11 to 18.~~

15 ~~20. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program; and when the computer program is run on a computer,~~

~~the computer is enabled to perform the method according to any one of claims 1 to 10; or~~

~~the computer is enabled to perform the method according to any one of claims 11 to 18.~~

~~21. A chip system, comprising a processor, configured to invoke a computer program from a memory and run the computer program,~~

20 ~~to enable a communication device on which the chip system is installed to perform the method according to any one of claims 1 to 10; or~~

~~to enable a communication device on which the chip system is installed to perform the method according to any one of claims 11 to 18.~~

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