CLAIMS:

[Claim 1]

An electronic device comprising:

a processor; and

a sensor module;

memory storing instructions that, when executed by the processor, cause the electronic device to perform operations, the operations comprising:

while a first connection to a first network is established based on a first radio access technology (RAT), identifying that the electronic device is in an over-temperature state based on sensing data from the sensor module, and that an application currently being executed corresponds to a specified application,

based on identifying that the electronic device is in the over-temperature state, and the application currently being executed corresponds to the specified application, releasing the first connection without receiving a connection release message from the first network,

after the first connection is released, performing a scan associated with a second RAT different from the first RAT,

based on a result of the scan, establishing a second connection with a second network different from the first network based on the second RAT.

[Claim 2]

The electronic device according to claim 1, wherein identifying that the application currently being executed corresponds to the specified application comprises:

identifying that the application currently being executed corresponds to the specified application having a specified type or not.

[Claim 3]

The electronic device according to claim 2, wherein a time required for receiving the connection release message, when the specified application having the specified type is currently executed, is greater than a threshold.

[Claim 4]

The electronic device according to claim 1, further comprising a display module, and,

wherein releasing the first connection without receiving the connection release

message comprises:

based on identifying that the specified application is currently being executed and that the display module is turned-off, releasing the first connection without receiving the connection release message.

[Claim 5]

The electronic device according to claim 1, wherein the operations comprise:

initiating a timer at a time point that the over-temperature state is identified, and

releasing the first connection without receiving the connection release message based on lapse of the timer.

[Claim 6]

The electronic device according to claim 1, wherein the specified application comprises an application for real-time streaming.

[Claim 7]

The electronic device according to claim 1, when the specified application comprises an application which is not an application for real-time streaming, release the first connection after receiving the connection release message.

[Claim 8]

The electronic device according to claim 1, wherein the first RAT corresponds to NR, and the second RAT corresponds to universal mobile telecommunications system (UMTS) terrestrial radio access (E-UTRA).

[Claim 9]

A method for operating an electronic device comprising a sensor module, the method comprising:

while a first connection to a first network is established based on a first radio access technology (RAT), identifying that the electronic device is in an over-temperature state based on sensing data from the sensor module, and that an application currently being executed corresponds to a specified application,

based on identifying that the electronic device is in the over-temperature state, and the application currently being executed corresponds to the specified application, releasing the first connection without receiving a connection release message from the first

network,

after the first connection is released, performing a scan associated with a second RAT different from the first RAT,

based on a result of the scan, establishing a second connection with a second network different from the first network based on the second RA.

[Claim 10]

The method according to claim 9, wherein identifying that the application currently being executed corresponds to the specified application comprises identifying that the application currently being executed corresponds to the specified application having a specified type is executed or not.

[Claim 11]

The method according to claim 10, wherein a time required for receiving the connection release message, when the specified application having the specified type is currently executed is, greater than a threshold.

[Claim 12]

The method according to claim 9,

wherein releasing the first connection without receiving the connection release message comprises:

based on identifying that the specified application is currently being executed and that a display module of the electronic device is turned-off, releasing the first connection without receiving the connection release message.

[Claim 13]

The method according to claim 9, further comprising:

initiating a timer at a time point that the over-temperature state is identified; and

releasing the first connection without receiving the connection release message based on lapse of the timer.

[Claim 14]

The method according to claim 9, wherein the specified application comprises an application for real-time streaming.

[Claim 15]

The method according to claim 9, when the specified application comprises an application which is not an application for real-time streaming, release the first connection after receiving the connection release message.

[Claim 16]

The method according to claim 9, wherein the first RAT corresponds to NR, and the second RAT corresponds to universal mobile telecommunications system (UMTS) terrestrial radio access (E-UTRA).

[Claim 17]

A non-transitory computer readable medium storing instructions that, when executed by a processor of an electronic device, cause the electronic device to perform operations, the operations comprising:

while a first connection to a first network is established based on a first radio access technology (RAT), identifying that the electronic device is in an over-temperature state based on sensing data from the sensor module, and that an application currently being executed corresponds to a specified application,

based on identifying that the electronic device is in the over-temperature state, and the application currently being executed corresponds to the specified application, releasing the first connection without receiving a connection release message from the first network,

after the first connection is released, performing a scan associated with a second RAT different from the first RAT,

based on a result of the scan, establishing a second connection with a second network different from the first network based on the second RAT.

[Claim 18]

The medium according to claim 17, wherein identifying that the application currently being executed corresponds to the specified application comprises:

identifying that the application currently being executed corresponds to the specified application having a specified type or not.

[Claim 19]

The medium according to claim 18, wherein a time required for receiving the

connection release message, when the specified application having the specified type is currently executed, is greater than a threshold.

[Claim 20]

The medium according to claim 17, wherein releasing the first connection without receiving the connection release message comprises:

based on identifying that the specified application is currently being executed and that a display module of the electronic device is turned-off, releasing the first connection without receiving the connection release message.

[Claim 21]

The medium according to claim 17, wherein the operations comprise:

initiating a timer at a time point that the over-temperature state is identified, and

releasing the first connection without receiving the connection release message based on lapse of the timer.

[Claim 22]

The medium according to claim 17, wherein the specified application comprises an application for real-time streaming.

[Claim 23]

The medium according to claim 17, when the specified application comprises an application which is not an application for real-time streaming, release the first connection after receiving the connection release message.

[Claim 24]

The medium according to claim 17, wherein the first RAT corresponds to NR, and the second RAT corresponds to universal mobile telecommunications system (UMTS) terrestrial radio access (E-UTRA).