CLAIMS

1. A method implemented by a Wireless Transmit/Receive Unit (WTRU), comprising:

performing a first registration with a network entity (NE), the WTRU indicating a preference for the WTRU to operate in a Mobile Initiated Communication Only (MICO) mode;

determining that a Service Request (SR) is to be sent;

on condition that the WTRU is operating in the MICO mode and is not registered in an "all PLMN" registration area, determining whether the WTRU is outside of a registration area associated with the first registration; and

on condition that the WTRU is determined to be outside the registration area, performing a second registration or a registration update prior to sending of the SR.

2. The method of claim 1, wherein the determining of whether the WTRU is outside of a registration area is based on any of: (1) location related information associated with the WTRU received after the first registration of the WTRU, or (2) a network provided flag.

3. The method of any one of the preceding claims, further comprising:

obtaining, by the WTRU, information indicating that the WTRU is to initiate the second registration or the registration update prior to the sending of the SR,

wherein the performing of the second registration or the registration update includes sending a registration request in accordance with the obtained information.

4. The method of claim 3, wherein the obtaining of the information to initiate the second registration or the registration update includes obtaining the information via a preconfiguration or via network signaling.

5. The method of any one of the preceding claims, further comprising:

determining that the WTRU is registered to an "all PLMN" registration area;

on condition that the WTRU is registered to the "all PLMN" registration area, determining whether an "always register" indication is set; and

on condition that an "always register" indication is set, sending a registration request to perform the second registration prior to the sending of the SR.

6. The method of any one of the preceding claims, further comprising obtaining an identifier indicated in a broadcast signal,

wherein the determining of whether the WTRU is outside of the registration area is based on whether the obtained identifier matches a stored identifier associated with a NE last serving the WTRU such that the performing of the second registration or the registration update is conditioned on the obtained identifier not matching the stored identifier.

7. The method of claim 6, wherein on condition that the obtained identifier matches the stored identifier, sending the SR without any second registration or registration update prior to sending the SR.

8. The method of claim 6 or claim 7, wherein the identifier is one of: (1) a Tracking area identifier; or (2) an AMF-related identifier.

9. A Wireless Transmit/Receive Unit (WTRU), comprising:

a transmitter/receiver unit; and

a processor in communication with the transmitter/receiver unit, configured to:

perform a first registration with a network entity (NE) and indicate a preference that the WTRU to operate in a Mobile Initiated Communication Only (MICO) mode;

determine that a Service Request (SR) is to be sent,

on condition that the WTRU is operating in the MICO mode and is not registered in an "all PLMN" registration area, determine whether the WTRU is outside of a registration area associated with the first registration, and

on condition that the WTRU is determined to be outside of the registration area, perform a second registration or a registration update prior to sending of the SR.

10. The WTRU of claim 9, wherein the processor is configured to determine whether the WTRU is outside of a registration area based on any of: (1) location related information associated with the WTRU received after the first registration of the WTRU, or (2) a network provided flag.

11. The WTRU of claim 9 or claim 10, wherein:

the processor is configured to obtain information, via a preconfiguration or the transmitter/receiver unit via network signaling, indicating that the WTRU is to initiate the second registration or the registration update prior to the sending of the SR; and

the transmitter/receiver unit is configured to send a registration request in accordance with the obtained information.

12. The WTRU of any one of claims 9-11, wherein:

the processor is configured to:

determine that the WTRU is registered to an “all PLMN” registration area, and

on condition that the WTRU is registered to the “all PLMN” registration area, determine whether an “always register” indication is set; and

the transmitter/receiver unit is configured to, on condition that an “always register” indication is set, send a registration request to perform the second registration prior to the sending of the SR.

13. The WTRU of any one of claims 9-12, wherein:

the transmitter/receiver unit is configured to obtain an identifier indicated in a broadcast signal; and

the processor is configured to determine whether the WTRU is outside of the registration area based on whether the obtained identifier matches a stored identifier associated with a NE last serving the WTRU such that the performing of the second registration or the registration update is conditioned on the obtained identifier not matching the stored identifier.

14. The WTRU of claim 13, wherein on condition that the obtained identifier matches the stored identifier, the transmitter/receiver unit is configured to send the SR without any second registration or registration update prior to sending of the SR.

15. The method of claim 1, further comprising:

sending the SR.

16. The method of claim 15, further comprising:

after sending the SR, sending Mobile Originated (MO) data or MO signaling.

17. The WTRU of claim 9, wherein the transmitter/receiver unit is configured to send the SR.

18. The WTRU of claim 17, wherein the transmitter/receiver unit is configured to, after sending the SR, send Mobile Originated (MO) data or MO signaling.