

What is claimed is:

1. A method for wireless communications, performed by a first network element in a network, the method comprising:

receiving a first message from a second network element of the network, wherein the first network element comprises a first base station, and wherein the second network element comprises a second base station different from the first base station;

deriving a User Equipment (UE) specific paging resource configuration associated with a UE based on the first message;

in response to the UE being in a Radio Resource Control (RRC) inactive state, selecting a paging radio resource based on the UE specific paging resource configuration and based on a radio resource specific paging configuration pre-defined in the first network element, the UE specific paging resource configuration comprising a paging extended Discontinuous Reception (eDRX) Information, and a Radio Access Network (RAN) paging cycle; and

sending a paging message over the selected paging radio resource to the UE.

2. The method of claim 1, wherein the UE specific paging resource configuration further comprises at least one of following parameters associated with the UE:

UE specific Discontinuous Reception (DRX); or

Core Network Assistance Information for the UE in a Radio Resource Control (RRC) inactive state.

3. The method of claim 1, wherein the paging radio resource comprises a paging occasion (PO).

4. The method of claim 1, wherein the paging message comprises at least one of:

a XnAP paging message; or

an F1AP paging message.

5. The method of claim 1, wherein the first message comprises the UE specific paging resource configuration associated with the UE.

6. The method of claim 5, wherein the first message comprises a paging message.

7. The method of claim 1, wherein the first network element comprises a first base station, the second network element comprises a second base station.

8. The method of claim 1, wherein the first network element comprises a gNB-DU, and the second network element comprises a gNB-CU.

9. A first network element in a network, the first network element comprising a memory for storing computer instructions and a processor in communication with the memory, wherein, when the processor executes the computer instructions, the processor is configured to cause the first network element to:

receive a first message from a second network element of the network, wherein the first network element comprises a first base station, and wherein the second network element comprises a second base station different from the first base station;

derive a UE specific paging resource configuration associated with a UE based on the first message;

in response to the UE being in a Radio Resource Control (RRC) inactive state, select a paging radio resource based on the UE specific paging resource configuration and based on a radio resource specific paging configuration pre-defined in the first network element, the UE specific paging resource configuration comprising a paging eDRX Information, and a Radio Access Network (RAN) paging cycle; and

send a paging message over the selected paging radio resource to the UE.

10. The first network element of claim 9, wherein the UE specific paging resource configuration further comprises at least one of following parameters associated with the UE:

UE specific Discontinuous Reception (DRX); or

Core Network Assistance Information for the UE in an RRC inactive state.

11. The first network element of claim 9, wherein the paging radio resource comprises a paging occasion (PO).

12. The first network element of claim 9, wherein the paging message comprises at least one of:

a XnAP paging message; or

an F1AP paging message.

13. The first network element of claim 9, wherein the first message comprises the UE specific paging resource configuration associated with the UE.

14. The first network element of claim 13, wherein the first message comprises a paging message.

15. The first network element of claim 9, wherein the first network element comprises a first base station, the second network element comprises a second base station.

16. The first network element of claim 9, wherein the first network element comprises a gNB-DU, and the second network element comprises a gNB-CU.

17. A non-transitory storage medium for storing computer readable instructions, the computer readable instructions, when executed by a processor in a first network element in a network, causing the processor to:

receive a first message from a second network element of the network, wherein the first network element comprises a first base station, and wherein the second network element comprises a second base station different from the first base station;

derive a UE specific paging resource configuration associated with a UE based on the first message;

in response to the UE being in a Radio Resource Control (RRC) inactive state, select a paging radio resource based on the UE specific paging resource configuration and based on a radio resource specific paging configuration pre-defined in the first network element, the UE specific paging resource configuration comprising a paging eDRX Information, and a Radio Access Network (RAN) paging cycle; and

send a paging message over the selected paging radio resource to the UE.

18. The non-transitory storage medium of claim 17, wherein:

the UE specific paging resource configuration further comprises at least one of following parameters associated with the UE:

UE specific Discontinuous Reception (DRX); or

Core Network Assistance Information for the UE in an RRC inactive state; and

the paging radio resource comprises a paging occasion (PO).

19. The first network element of claim 17, wherein:

the paging message comprises at least one of:

a XnAP paging message; or

an F1AP paging message; and

the first message comprises the UE specific paging resource configuration associated with the UE.

20. The first network element of claim 17, wherein:

the first message comprises a paging message; and

a combination of the first network element and the second network element comprises one of:

the first network element being a first base station, the second network element being a second base station; or

the first network element being a gNB-DU, and the second network element being a gNB-CU.