CLAIMS

1. A base station comprising:

processor circuitry configured to generate a first type system information block (SIB) including:

an area identifier,

an identification of each of one or more second type system information blocks (SIBs), and

information indicating whether or not the area identifier is associated with the identification of the each of the one or more second type SIBs;

the first type SIB being used for transmitting minimum system information, the minimum system information comprising, at least, information required for an initial access,

transmitter circuitry configured to transmit the first type SIB, wherein,

the first type SIB provides a validity of a second type SIB stored in a user equipment (UE) for a cell served by the base station, based on whether or not the area identifier is associated with an identification of a corresponding second type SIB; and

the validity of the corresponding second type SIB is only limited to the cell in case the area identifier is not presented.

2. A method in a base station comprising:

generating a first type system information block (SIB) including:

an area identifier,

an identification of each of one or more second type system information blocks (SIBs), and

information indicating whether or not the area identifier is

information indicating whether or not the area identifier is associated with the identification of the each of the one or more second type SIBs;

the first type SIB being used for transmitting minimum system information, the minimum system information comprising, at least, information required for an initial access,

transmitting the first type SIB, wherein:

the first type SIB provides a validity of a second type SIB stored in a user equipment (UE) for a cell served by the base station, based on whether or not the area identifier is associated with an identification of a corresponding second type SIB; and

the validity of the corresponding second type SIB is only limited to the cell in case the area identifier is not presented.

3. A user equipment (UE) comprising:

processor circuitry configured to camp on a cell;

receiving circuitry configured to receive from the cell, a first type system information block (SIB) including:

an area identifier,

an identification of each of one or more second type system information blocks (SIBs ), and

information indicating whether or not the area identifier is associated with the identification of the each of the one or more second type SIBs;

the first type SIB being used for transmitting minimum system information, the minimum system information comprising, at least, information required for an initial access,

the processor circuitry configured to determine a validity of a stored second type SIB for the cell, based on whether or not the area identifier is associated with an identification of a corresponding second type SIB; and fl

the validity of the corresponding second type SIB is only limited to the cell in case the area identifier is not presented.

4. A method in a user equipment (UE) comprising: camping on a cell;

receiving, from the cell, a first type system information block (SIB) including:

an area identifier,

an identification of each of one or more second type system information blocks (SIBs), and

the first type SIB being used for transmitting minimum system information, the minimum system information comprising, at least, information required for an initial access,

determining a validity of a stored second type SIB for the cell, based on whether or not the area identifier is associated with an identification of a corresponding second type SIB, and

the validity of the corresponding second type SIB is only limited to the cell in case the area identifier is not presented.

5. The base station according to claim 1, wherein

in a case that the area identifier is associated with the identification of the corresponding second type SIB, the corresponding second type SIB is specific to an area defined by the area identifier.

6. The base station according to claim 1, wherein

in a case that the area identifier is not associated with the identification of the corresponding second type SIB, the corresponding second type SIB is cell specific.

7. The method according to claim 2, wherein

in a case that the area identifier is associated with the identification of the corresponding second type SIB, the corresponding second type SIB is specific to an area defined by the area identifier.

8. The method according to claim 2, wherein

in a case that the area identifier is not associated with the identification of the corresponding second type SIB, the corresponding second type SIB is cell specific.

9. The UE according to claim 3, wherein,

in a case that the area identifier is associated with the identification of the corresponding second type SIB, the corresponding second type SIB is

specific to an area defined by the area identifier.

10. The UE according to claim 3, wherein

in a case that the area identifier is not associated with the identification of the corresponding second type SIB, the corresponding second type SIB is cell specific.

11. The method according to claim 4, wherein

in a case that the area identifier is associated with the identification of the corresponding second SIB, the corresponding second type SIB is specific to an area identified by the area identifier.

12. The method according to claim 4, wherein in a case that the area identifier is not associated with the identification of the corresponding second type SIB, the corresponding second type SIB is cell specific.