Claims

【Claim 1】

A method performed by a distributed unit (DU), the method comprising:

determining a scheduling-related parameter for at least one user; and

transmitting scheduling information indicating the scheduling-related parameter to a radio unit (RU), wherein the scheduling information comprises:

a first section extension field comprising information relating to a user equipment identifier (ueID) corresponding to each of the at least one user, and

a second section extension field comprising, for each of the at least one user, a single value indicating the number of ueIDs corresponding to the respective user.

【Claim 2】

The method of claim 1, wherein the scheduling-related parameter comprises at least one of at least one ueID corresponding to each of the at least one user, the number of the at least one user to be scheduled, and the number of transmission layers of each of the at least one user.

【Claim 3】

The method of claim 1, wherein for each of the at least one user, the first section extension field comprises same ueID repeated as many times as the number of transmission layers of each of the at least one user.

【Claim 4】

The method of claim 3, wherein the at least one user comprises a first user and a second user, and

wherein the first section extension field comprises first ueID, associated with the first user, repeated as many times as the number of transmission layers of the first user, and

wherein the first section extension field comprises second ueID, associated with the second user, repeated as many times as the number of transmission layers of the second user.

【Claim 5】

The method of claim 4, wherein the first ueID is one among one or more ueIDs associated with the first user, and the second ueID is one among one or more ueIDs associated with the second user.

【Claim 6】

The method of claim 1, wherein the first section extension field comprises as many different ueIDs as the number of the at least one user to be scheduled through the scheduling information.

【Claim 7】

The method of claim 1, wherein the at least one ueID corresponding to each of the at least one user has as many consecutive values as the single value indicating the number of ueIDs corresponding to the respective user.

【Claim 8】

A method performed by a radio unit (RU), the method comprising:

receiving, from a distributed unit (DU), scheduling information indicating a scheduling-related parameter for at least one user; and

acquiring the scheduling-related parameter by using the scheduling information, wherein the scheduling information comprises:

a first section extension field comprising information relating to a user equipment identifier (ueID) corresponding to each of the at least one user, and

a second section extension field comprising, for each of the at least one user, a single value indicating the number of ueIDs corresponding to the respective user.

【Claim 9】

The method of claim 8, wherein the scheduling-related parameter comprises at least one of at least one ueID corresponding to each of the at least one user, the number of the at least one user to be scheduled, and the number of transmission layers of each of the at least one user.

【Claim 10】

The method of claim 8, wherein for each of the at least one user, the first section extension field comprises same ueID repeated as many times as the number of transmission layers of each of the at least one user.

【Claim 11】

The method of claim 10, wherein the at least one user comprises a first user and a second user, and

wherein the first section extension field comprises first ueID, associated with the first user, repeated as many times as the number of transmission layers of the first user, and

wherein the first section extension field comprises second ueID, associated with the second user, repeated as many times as the number of transmission layers of the second user.

wherein the first ueID is one among one or more ueIDs associated with the first user, and the second ueID is one among one or more ueIDs associated with the second user.

【Claim 12】

The method of claim 8, wherein the first section extension field comprises as many different ueIDs as the number of the at least one user to be scheduled through the scheduling information.

【Claim 13】

The method of claim 8, wherein the at least one ueID corresponding to each of the at least one user has as many consecutive values as the single value indicating the number of ueIDs corresponding to the respective user.

【Claim 14】

A distributed unit (DU) device, the device comprising:

a connector configured to transmit or receive a signal to or from a radio unit (RU); and

at least one processor configured to determine a scheduling-related parameter for at least one user, and transmit, to the RU, scheduling information indicating the scheduling-related parameter, wherein the scheduling information comprises:

a first section extension field comprising information relating to a user equipment identifier (ueID) corresponding to each of the at least one user, and

a second section extension field comprising, for each of the at least one user, a single value indicating the number of ueIDs corresponding to the respective user.

【Claim 15】

A radio unit (RU) device, the device comprising:

a connector configured to transmit or receive a signal to or from a distributed unit (DU); and

at least one processor configured to receive, from the DU, scheduling information indicating a scheduling-related parameter for at least one user, and acquire the scheduling-related parameter by using the scheduling information, wherein the scheduling information comprises:

a first section extension field comprising information relating to a user equipment identifier (ueID) corresponding to each of the at least one user, and

a second section extension field comprising, for each of the at least one user, a single value indicating the number of ueIDs corresponding to the respective user.