[0006] In a first aspect, the present disclosure provides a reporting communication apparatus comprising: a receiver, which in operation, receives a measurement signal; circuitry, which in operation, is configured to measure channel state information (CSI) of the received measurement signal; and a transmitter, which in operation, transmits a report frame including information of a sub-component of the CSI.

[0007] In a second aspect, the present disclosure provides a reporting communication method comprising: receiving a measurement signal; measuring channel state information (CSI) of the received measurement signal; and transmitting a report frame carrying information of a sub-component of the CSI.

[0008] In a third aspect, the present disclosure provides an initiating communication apparatus comprising: circuitry, which in operation, generates a frame carrying a report type indication indicating a sub-component of a CSI to a reporting communication apparatus; and a receiver, which in operation, receives a report frame carrying information of the sub-component of the CSI of a measurement signal from the reporting communication apparatus.

[0009] In a fourth aspect, the present disclosure provides an initiating communication method comprising: generating a frame carrying a report type indication indicating a sub-component of a CSI to a reporting communication apparatus; receiving a report frame carrying information of the sub-component of the CSI of a measurement signal from the reporting communication apparatus.

[0010] Additional benefits and advantages of the disclosed embodiments will become apparent from the specification and drawings. The benefits and/or advantages may be individually obtained by the various embodiments and features of the specification and drawings, which need not all be provided in order to obtain one or more of such benefits and/or advantages.

BRIEF DESCRIPTION OF THE DRAWINGS

[0011] The accompanying figures, where like reference numerals refer to identical or functionally similar elements throughout the separate views and which together with the detailed description below are incorporated in and form part of the specification, serve to