ABSTRACT

LOW-LAYER (DCI OR MAC CE) DL PUNCTURING INDICATOR FOR POSITIONING REFERENCE SIGNALS (PRS)

During positioning of a user equipment (UE), downlink (DL) positioning reference signals (PRS) transmitted by one or more transmission reception point (TRP) in a wireless communication system may be preempted or punctured by higher priority transmissions, such as ultra-reliable low-latency traffic (URLLC). A PRS preemption indication (PI) may be provided to a UE by a serving TRP identifying one or more TRPs affected by preemption. The PRS PI may further identify the time domain and frequency domain of the preempted DL PRS transmissions. The PRS PI may identify the time domain, e.g., based on a number of PRS symbols between two monitoring occasions, wherein only PRS symbols that contain downlink positioning reference signals associated with the group of TRPs are counted. The PRS PI may identify the frequency domain by identifying at least one of four or more frequency sub-bands of the preempted DL PRS transmissions.

Fig. 15