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(54) **ULTRA-HIGH RELIABILITY MILLIMETER WAVE PHYSICAL LAYER RANGE EXTENSION**

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(57) **ABSTRACT**

A first station (STA) receives a first frame indicating a capability of a second STA to receive a first number of repetitions of a first signal field of a Physical Layer Protocol Data Unit (PPDU), where the first number of repetitions comprises more than two. The first STA encodes the PPDU such that the first signal field comprises up to the first number of repetitions based on the capability of the second STA. The first STA transmits, to the second STA, the PPDU, based on the encoding.