

IEEE P802.15
Wireless Personal Area Networks

Project	IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)	
Title	MMC resolutions	
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Re:	[]	
Abstract	[Suggested comment resolutions from LB43.]	
Purpose	[To assist in comment resolution.]	
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12.1.9 mmWave PHY mode usage in a CTA

In a CTA, any PHY mode may be used that is supported by both the source and destination DEVs.

As an example, a DEV that supports CMS and HSI MCS > 0 is able to join an SC piconet and request a CTA to another DEV that also supports CMS and HSI MCS > 0. The two DEVs are allowed to carry on communications in that CTA using HSI MCSs, even though the piconet is operating in SC mode.

As another example, if a DEV supports HSI, but not CMS, it would need to find an HSI piconet, one of independent, parent or child, to join before it can transfer data. A DEV that supports both CMS and the HSI base rate could act as a bridge to an HSI-only DEV by creating an HSI child piconet in the SC parent piconet. The HSI only DEV could then join this child piconet and transfer data with the dual mode DEV. The dual mode DEV would then be able to either bridge the communications using 802.1 sublayer or route the data using layers above layer 2.