COMMUNICATION APPARATUS AND COMMUNICATION METHOD FOR MULTI-AP JOINT TRANSMISSION

BACKGROUND

1. TECHNICAL FIELD

[0001] The present disclosure generally relates to communication apparatus and methods for electronic devices and systems, and more particularly relates to joint transmission in multi-AP networks.

2. DESCRIPTION OF RELATED ART

[0002] Wireless networks that communicate via multi-AP joint transmission enable electronic devices to communication in networks with joint transmissions sent to multiple electronic devices. Such networks have advantages over other wireless networks in which wireless communication is limited to a single transmission to one electronic device.

SUMMARY

[0003] One non-limiting and exemplary embodiment facilitates providing joint transmission communication in multi-AP networks. By way of example, this communication includes joint transmission from two or more of an access point (AP) to one or more wireless station (STA).

[0004] In one general aspect, the techniques disclosed here feature an access point (AP). The access point includes circuitry, which, in operation, generates a frame including joint transmission (JT) data and a JT identity that uniquely identifies the JT data; and a transmitter, which, in operation, transmits the frame to one or more other APs that jointly transmit the JT data to a communication apparatus. In one aspect, there is an access point (AP comprising: a receiver, which, in operation, receives from another AP a frame that includes Joint Transmission (JT) data and a JT identity that uniquely identifies the JT data; and local memory that stores the JT data and the JT identity. In one aspect, there is a communication method comprising: generating, at a first access point (AP), a frame including joint transmission (JT) data and a JT identity that uniquely identifies the JT data; and transmitting, from the first AP, the frame to one or more second APs that jointly transmit the JT data to a communication apparatus. In one aspect, there is a communication method, comprising: receiving, at one or more access points (APs), a frame that is transmitted from another AP and that includes Joint Transmission (JT) data and a JT identity that uniquely identifies the JT data; and storing the JT data and the JT identity in local memory.