IEEE P802.22  
Wireless RANs

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| [802.22b Network and Defintions] | | | | |
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Abstract

This document is a revision of initialization and network association (7.14) for 802.22b systems and provies definitions related with the revision.

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**3. Definitions**

**3.4 base station (BS):** Generalized equipment set providing connectivity, management and control of the customer premise equipment (CPE). The functionalities attributed to the BS, in the context of this standard, may be implemented by a device or a collection of devices.

**3.4a multihop relay base station (MR-BS):** Generalized equipment set providing connectivity, management and control of the relay customer premise equipments (R-CPEs) and subscriber CPEs (S-CPEs). *See also*: base station (BS), relay customer premise equipment (R-CPE). The functionalities attributed to the MR-BS, in the context of this standard, may be implemented by a device or a collection of devices.

**3.16 customer premise or portable equipment (CPE):**  A generalized equipment set providing connectivity between a BS and a subscriber premise.

**3.16a relay customer premise or portable equipment (R-CPE):** A generalized equipment set, dependent on a multihop relay base station (MR-BS) providing connectivity, to subscriber customer premise equipments (S-CPEs). An R-CPE may also provide management and control of subordinate S-CPEs. The air interface between an R-CPE and an S-CPE is identical to the air interface between a BS and a CPE.

**3.16a.1 centralized scheduling**: A mode of operation applicable to multihop relay where a multihop relay BS (MR-BS) determines the bandwidth allocations and generates the corresponding MAPs [or dictates the information used by relay CPEs (R-CPEs) to generate their MAPs] for all access and relay links in the WRAN cell.

**3.16a.2 distributed scheduling:** A mode of operation applicable to multihop relay where each R-CPE in the WRAN cell (with or without information from the MR-BS) determines the bandwidth allocations and generate the corresponding MAPs for the access link to/from its S-CPEs

**3.16a subscribe customer premise or portable equipment (S-CPE):** A generalized equipment set providing connectivity between a subscriber premise and an MR-BS or an R-CPE.

**3.x relay link (R-link):** A radio link between an MR-BS and an R-CPE. This can be a relay uplink or downlink.





**Figure 1a – An 802.22b WRAN cell with a multihop relay base station, relay CPEs and subscribe CPEs for 2- hop connections**