
**Telecommunications and information
exchange between systems — Wireless
Regional Area Networks (WRAN) —
Specific requirements —**

Part 22:

**Cognitive Wireless RAN Medium
Access Control (MAC) and Physical
Layer (PHY) Specifications: Policies
and procedures for operation in the
bands that allow spectrum sharing
where the communications devices
may opportunistically operate in the
spectrum of primary service**

*Télécommunications et échange d'information entre systèmes —
Réseaux régionaux sans fil (WRAN) — Exigences spécifiques —*

*Partie 22: Spécifications du contrôle d'accès du milieu sans fil cognitif
(MAC) et de la couche physique (PHY) : Politiques et procédures pour
le fonctionnement dans les bandes qui permettent le partage du
spectre, où les dispositifs de communication peuvent fonctionner de
manière opportuniste dans le spectre du service primaire*



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Abstract: This standard specifies the air interface, including the cognitive medium access control layer (MAC) and physical layer (PHY), of point-to-multipoint wireless regional area networks (WRANs) comprised of a professional fixed base station (BS) with fixed and portable user terminals operating in the VHF/UHF TV broadcast bands between 54 MHz to 862 MHz, and potentially in the 1300 MHz to 1750 MHz, and 2700 MHz to 3700 MHz bands provided the regulatory regime allows it.

Keywords: broadband wireless access network, cognitive radio, fixed user terminals, IEEE 802.22™, portable user terminals, radio spectrum sensing, regional area network, WRAN standards

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