

# Proposed Modifications to the Draft 802.11TVWS PAR and 5C

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# Summary

- **This document proposes changes to the first draft 802.11TVWS PAR and 5C document (IEEE 802.11-09/0934r0)**
- **There are 4 modifications proposed to the following sections**
  - **2.1 Title of Standard**
  - **5.2 Scope of Proposed Standard**
  - **5.4 Purpose of Proposed Standard**
  - **17.5.3 Distinct Identity (b)**

# Suggested Changes on “Title of Standard”

- **The existing text**
  - **2.1 Title of Standard:** IEEE Standard for Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications - Amendment: TV White Spaces Operation in the USA.
- **Suggested changes**
  - **2.1 Title of Standard:** IEEE Standard for Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications - Amendment: TV White Spaces Operation ~~in the USA~~
- **Rationale**
  - As mentioned in the section of “Additional Explanatory Notes”, regulatory bodies in other countries are developing rules and regulations for TVWS usage. We do not see any strong rationale to limit the standard only for the USA
  - If “in the USA” is removed from the title, it is still possible to define a standard for operation in the USA only

# Suggested Changes on “Scope of Proposed Standard”

- **The existing text**
  - **5.2 Scope of Proposed Standard:** An amendment that defines standardized modifications to both the 802.11 physical layers (PHY) and the 802.11 Medium Access Control Layer (MAC), to enable operation in the TV White Spaces (the unused channels in the TV bands). The project will adapt to changes in the regulations, as they progress.
- **Suggested changes**
  - **5.2 Scope of Proposed Standard:** An amendment that defines standardized modifications to both the 802.11 physical layers (PHY) and the 802.11 Medium Access Control Layer (MAC), to enable operation in the TV White Spaces (the unused channels in the TV bands). The project will ~~Adapt to~~ consider (1) changes in the regulations, as they progress. The standard will define mechanisms to ensure the coexistence of 802.11 TV White Space systems with primary users.(2) This standard will also consider coexistence with other potential secondary users in TVWS. (3)

## Suggested Changes on “Scope of Proposed Standard” (cont.)

- **Rationale**

- (1) Adapting to all the upcoming rule and regulation changes may slow down the process at the end. The word “consider” provides more flexibility than the word “adapt to”
- (2) The sentence “and to facilitate the coexistence of such systems with primary users” is more suitable in the scope section of the PAR rather than in the purpose section.
- (3) The standard should also address the coexistence issue with other potential secondary users that may operate in the TVWS
- The wording is slightly changed for consistency

# Suggested Changes on “Purpose of Proposed Standard”

- **The existing text**
  - **5.4 Purpose of Proposed Standard:** The purpose of this amendment is to allow 802.11 wireless networks to be used in the TV white space, and to facilitate the coexistence of such systems with primary users.
- **Suggested changes**
  - **5.4 Purpose of Proposed Standard:** The purpose of this amendment is to allow 802.11 wireless networks to be used in the TV white space. ~~-, and to facilitate the coexistence of such systems with primary users.~~
- **Rationale**
  - The same information is repeated in the section of scope if the previous suggested change is accepted

# Suggested Changes on “Distinct Identity (b)”

- **The existing text**
  - **b) One unique solution per problem (not two solutions to a problem).** The 802.11 Pro-ject will define one radio extension to 802.11 OFDM, such .....
- **Suggested changes**
  - **b) One unique solution per problem (not two solutions to a problem).** The 802.11 Pro-ject will define one radio extension to 802.11 ~~OFDM~~, such .....
- **Rationale**
  - We do not see any strong rationale to stick to OFDM at the start of the PAR discussion