



IEEE 802.17 RPR Working Group

# Implementation Choices in RPR

Raj Sharma  
Tom Alexander

# Summary of the issue

- RPR contains a large number of options
  - Some of these are orthogonal
  - Some of these are interdependent
- It is not easy or straightforward to select between the different options
  - For example, the Ethernet PHY options may not provide signal fail, so this affects the quality of protection
- To facilitate this, we need to introduce the concept of “profiles” into RPR
  - These profiles will assist the implementer of the standard in selecting a proper set of options to produce something that is both conformant and usable
  - It also helps the reader in navigating through the standard, so that he or she doesn't have to read all 1000 pages to figure out what's pertinent or not

# What should profiles show?

- All the options
- Interdependencies between options
- Pointers to the PICS entries that must be satisfied by implementations that select between these options

# Suggested process

- 1) Take a few good WG members ...
- 2) List all of the options in the standard, clause by clause
  - The technical editors will be solicited for inputs
  - This list will also be circulated to the WG
- 3) Identify dependencies between the options
- 4) Evolve a format for the profile that best expresses the various choices available to the implementer
- 5) Generate the profiles for RPR
- 6) Bring in a proposal to the WG
  - Add an Annex titled “RPR MAC/PHY implementation profiles” (or something similar)
  - Need to identify a Clause that references the Annex