
How to continue with Time Bounded Services

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Status:

- We adopted to use DTBS, and delete the original CF-TBS specification.
- The Active priority based DTBS proposal was voted down in the Orlando planery after acceptance by the MAC.
- We did not get any feedback from the PHY people about their Active priority signalling conserns.
- How to continue??

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Generic Priority proposal

IEEE P802.11-94/150d

A generic priority approach.

Slide 3

- **Goal:**
Implement a generic approach in the MAC for the DCF priority mechanism, that allows both an active and passive implementation on a per PHY basis.
- **Every PHY standard should also specify the parameters for selecting the priority control method.**

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Generic Priority proposal

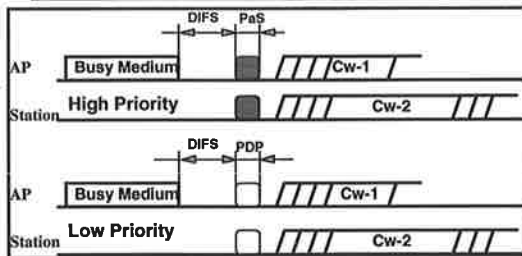
IEEE P802.11-94/150d

What is needed to comply with our PAR?

Slide 4

- **We need a MAC that can support DTBS, to comply with the PAR.**
- **Does all PHY's need to specify support for DTBS?**
 - Current lower speed PHY's are less or not suited for support of actual applications.
 - Higher speed PHY's are better suited for most applications.
- **So, do all PHY's need to support DTBS???**

Generic Priority mechanisms proposal: Slide 5



- **High priority:**
 $DIFS=y$; $PDP = 0$; $PaS = x$
 $DIFS=H$; $PDP = 0$; $PaS = 0$
- **Low Priority:**
 $DIFS=y$; $PDP = x$; $PaS = 0$
 $DIFS=L$; $PDP = 0$; $PaS = 0$

- **Allows for different priority implementation mechanisms on a per PHY basis.**
 - $DIFS=L,H$ with $PDP=PaS=0$ for multiple IFS method.
 - $DIFS=$ fixed with PDP and PaS parameterization for active priority signalling (future PHY's)
- **AP and Station priority separation by CWmin parameter (MAC).**

Priority mechanism selection: Slide 6

- **Each PHY standard should specify the three channel access parameters per priority level (DIFS, PDP, PaS).**
 - Current PHY standards can select the multiple IFS approach if they have a problem with active signalling.
 - Future 5.2 GHz PHY's should select active priority signalling, to be compatible with a "priority based Etiquette".
- **MAC state machine should include active priority signalling under parameter control.**
- **This allows acceptance of the generic mechanism while postponing or circumventing the PHY specific issue's associated with active priority signalling.**

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