Relay midamble

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Base Document:

IEEE C802.16j-06/144 and URL <http://ieee802.org/16/… C80216j-06_144.pdf>.

Purpose:

For discussion and approval of inclusion of the proposed text into the P802.16j baseline document.

Applied frame structure (C80216j-06_138)
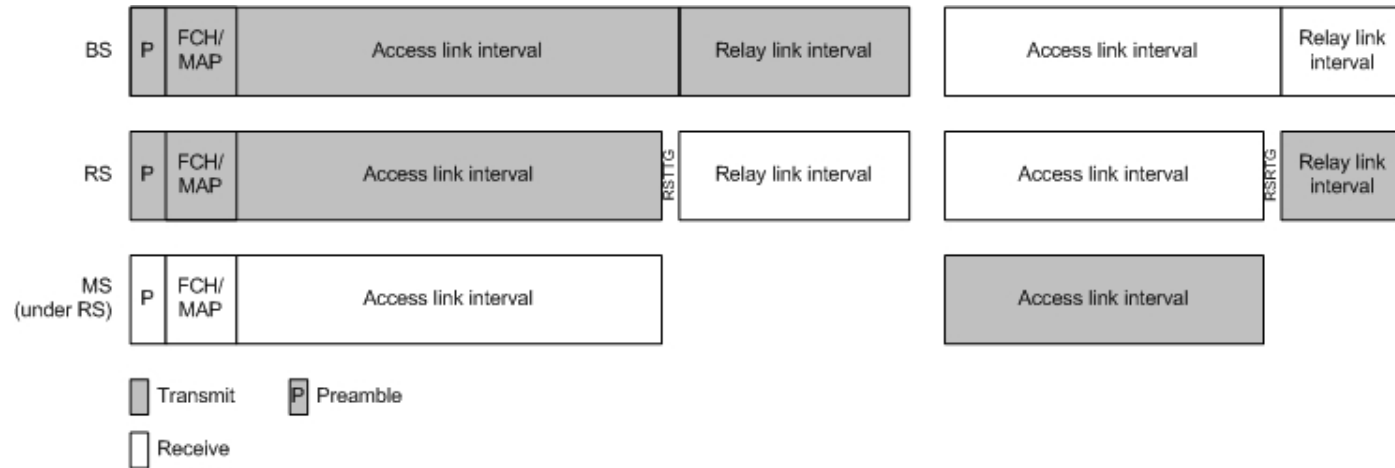
- When MR-BS and RS transmit 802.16e preamble simultaneously, RS cannot receive the BS preamble at the beginning of the frame.
- RS may need to receive a preamble from BS for adjusting its time/frequency sync during its relay operation.

Relay midamble (RM)
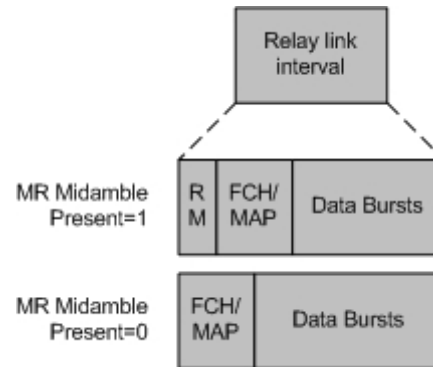
- A relay midamble may be optionally inserted at beginning of relay link interval (MR-BS→RS).

Relay midamble properties

Property	Preamble	Relay midamble
Duration	1 symbol	1 symbol
Sequence	Defined in 8.4.6.1.1 of 802.16e_2005	Defined in 8.4.6.1.1 of 802.16e_2005
Power	+9dB	+6dB
Repetition rate	Every frame	flexible
Location	First symbol	flexible
Status	M	O