Selection of the default LDM patterns in Femto ABS (15.4.10.2)

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Base Contribution:

N/A

Purpose:

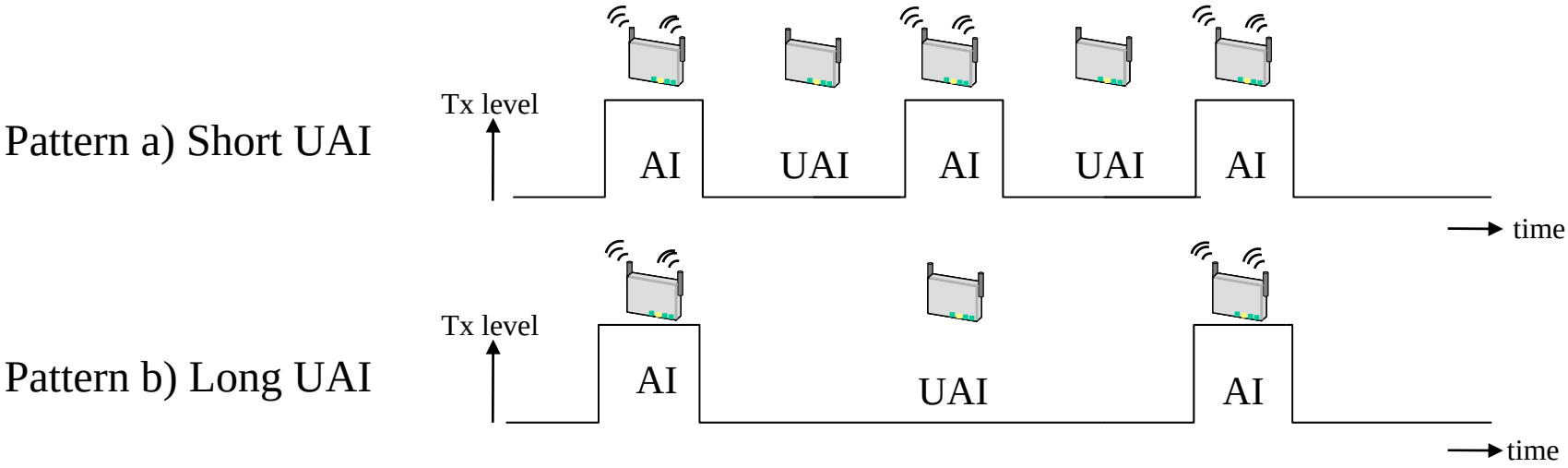
To be discussed and adopted by TGm for the P802.16m/D2

Default LDM patterns in Femto ABS

- 15.4.10.2 Default LDM pattern(s) in P802.16m/D2
  - Defined by following parameters:

    Available Interval(AI), Unavailable Interval(UAI), Start superframe number
  - "There may be one or more default LDM patterns." (Page 551 Line 3)

- When there are several default LDM patterns, AI or UAI of each pattern may be differently configured.



Example of different UAI

Selection of suitable default LDM pattern

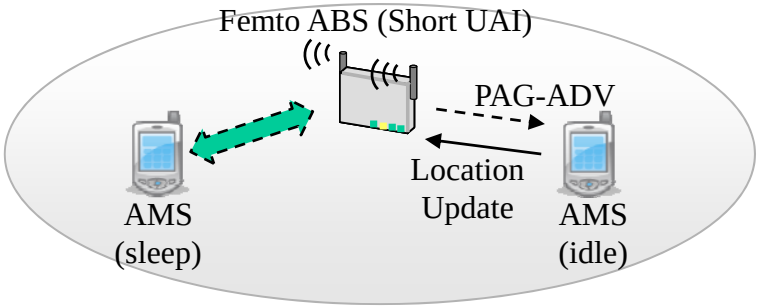
- Selection of the default LDM pattern is a trade-off issue:
  - Short UAI

    Pros : Shorter latency of data transmission (sleep AMS) or network re-entry (idle AMS).

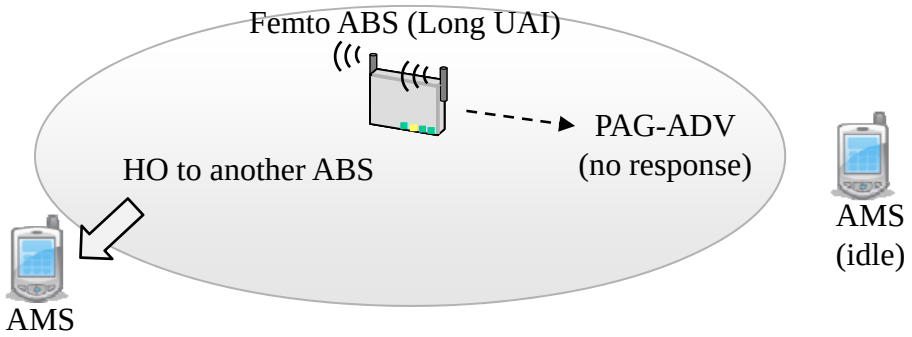
    Cons: Smaller effect of interference mitigation.
  - Long UAI

    Pros : Lager effect of interference mitigation.

    Cons: Longer latency of data transmission (sleep AMS) or network re-entry (idle AMS).
- Based on the existence/status of AMS, the femto ABS can select suitable default LDM pattern.
  - AMS in sleep mode is connected or not.
  - Location update from idle mode AMS is detected or not.
    - CSG Femto ABS may send PAG-ADV(action code=0b01) for CSG AMS detection.



Case a) Sleep or idle AMS is in the coverage



Case b) No AMS is in the coverage

Proposed Text

[Add the following text into the last paragraph of 15.4.10.2 Default LDM pattern(s) in D2]

Page 551 Line3-5:

---------- Start of the Text ----------

There may be one or more default LDM patterns in a femto ABS deployment. The femto ABS may select the default LDM pattern with longer unavailable interval when no AMS exists in its service range. The Default LDM pattern(s) parameters can be pre-provisioned or unicasted to the AMS during initial network entry with the femto ABS in the AAI_REG-RSP message.

---------- End of the Text ----------