

TSG RAN WG1#7
Hanover, Germany
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Agenda Item: AH 14
Source: Golden Bridge Technology
Title: Access Slot Mapping
Document for: Discussion and Approval

Problem

It has been suggested and agreed in AH14 that the access slots be used to map access to data rates. This will help in reduction of complexity if achievable.

Discussion

The base Node can not determine which access slot the ramp-up process started by knowing which access slot the ramp-up ended. This makes it difficult in mapping the data rates onto the access slots. One way around this is to partition the access slots into three as follows:

64 kbps \in { 0,3,6,9,12, 0,3,6,9,12,... }
144 kbps \in { 1,4,7,10,13, 1,4,7,10,13, ... }
384 kbps \in { 2,5,8, 11,14, 2,5,8, 11,14, ... }

So, there is a one-to-one correspondence between the access slots and data rates. However, this can not be done with 2 or 4 categories of access slots. As can be seen from above, the base node can determine the data rate based on where the ramp-up process terminated since the initiating and terminating access slots belong to the same class of access slots.

Proposed text

Add to the new section 5.2.2.2 of document 25.211
“data rates may be mapped to various signature sequences. It is also possible to map the data rates to the access slots.