

Some Modification ons the Procedure of New sub-frame Creation

IEEE 802.16 Presentation Submission Template (Rev. 8.3)

Document Number:

S802.16h-06/106

Date Submitted:

2006-11-15

Source:

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Venue:

Meeting 46, 13-16 November, 2006

Base Document:

http://le.wirelessman.org/C80216h-06_106.pdf

Purpose:

Modify the procedure of new sub-frame creation .

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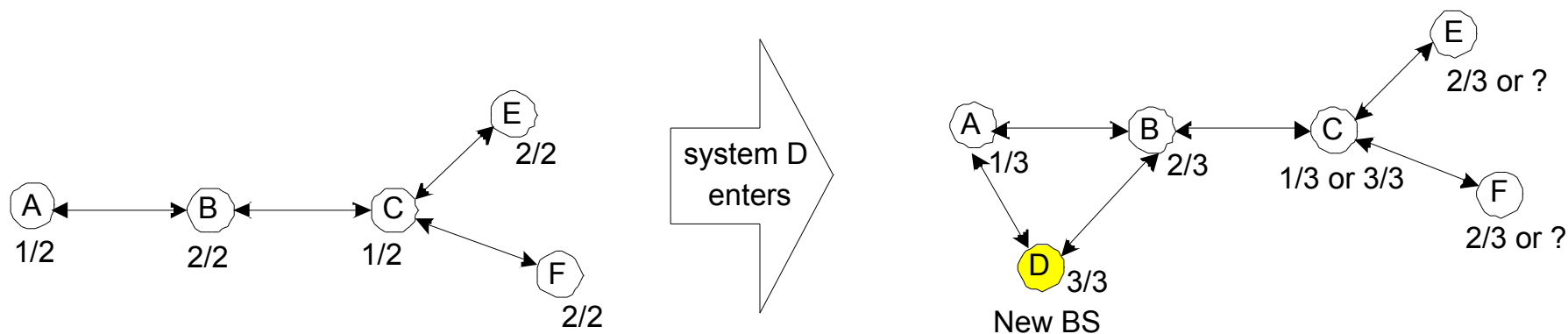
Outline


- Which BSs does the new BS send request to?
 - Send request to some neighbor BS, not all member BSs in community
- How to select master sub-frame
 - New BS is responsible for the sub-frame optimization
- Cancellation of sub-frame creation
 - Sub-frame creation procedure may be suspended
- Consist the procedure in 15.4.2.5 with and the message defined in 15.5.2.25/26.

Which BSs does the new BS send request to?

- Current Draft

- Current: Request all member BSs in the community
 - The signaling overhead is increase and the resource efficiency may decrease.

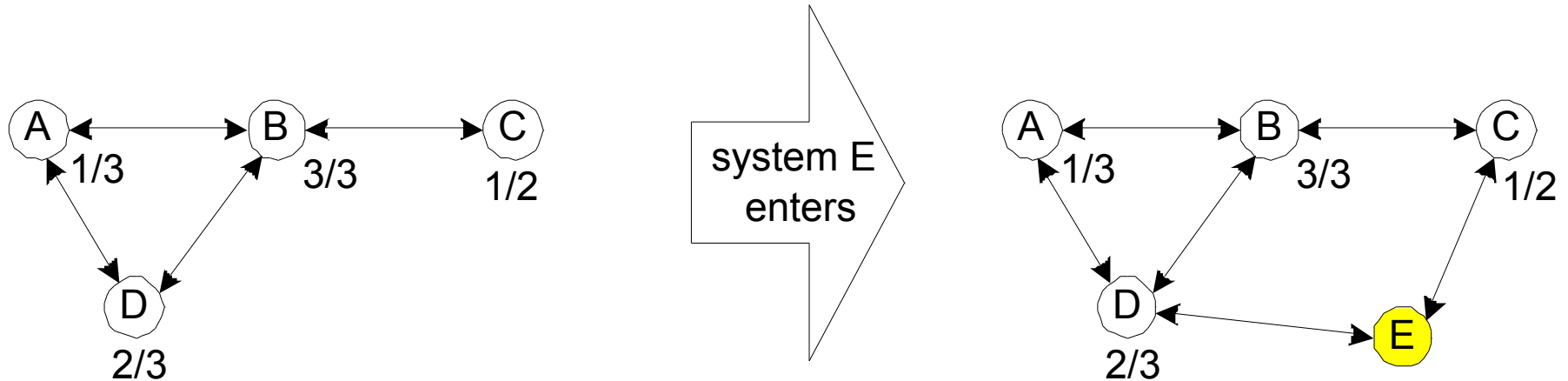



 system X selects sub-frame M as master, and the interference sub-frame number is N


 interference relationship

Which BSs does the new BS send request to? - Current Draft

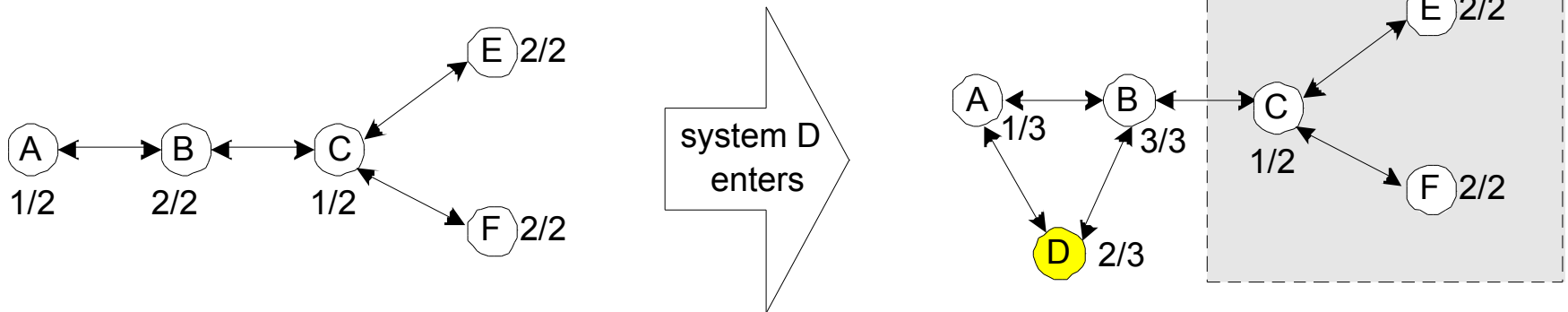
- If the sub-frame number of interference of neighbor is not same, it need not to request all neighbor BSs increase the sub-frame number of their own.



Proposed

- Propose: Request only neighbor BSs with sub-frame number is increased.

All Neighbors with Same Subframe Number

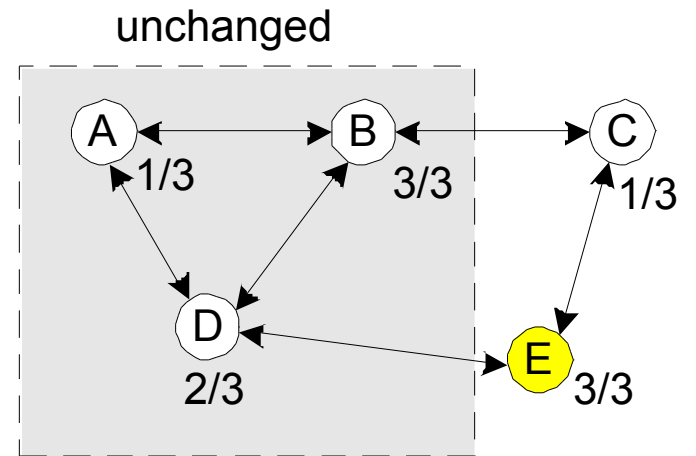
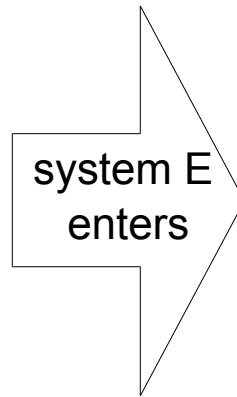
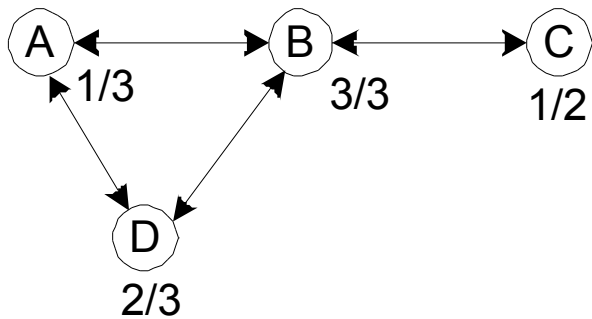


\textcircled{X}
m/n

system X selects sub-frame m,
and the sub-frame number is n

\longleftrightarrow interference relationship

Neighbor BSs with Different Subframe Number



How to select master sub-frame

- Current: No description.
- Propose: New BS is responsible for the sub-frame optimization
 - the community is interference free before IBS enters
 - All information of Neighbor is accumulated by the new BS
 - the maximum sub-frame number is limited to 3
 - It looks like easy to find the optimization solution

Cancellation of sub-frame creation

- The new BS may cancel the creation of sub-frame
 - some neighbor BSs reject its request
 - Finding more suitable channel
- Propose to add this function
 - Corresponding text is added
 - Two CXP messages are added

Consist the procedure with the message

- Information elements described in 15.4.2.5 are not consistent with the message defined in section 15.5.2.25 and 15.5.2.26.
- Propose: Consist the procedure with the message