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| Project | **IEEE 802.21 MIHS****<**[**http://www.ieee802.org/21/**](http://www.ieee802.org/21/)**>** |
| Title | **Suggested remedy for SB Comment r01-24** |
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| Re: | IEEE 802.21d Sponsor Ballot comment resolution |
| Abstract | This document describes suggested remedy for SB comment r01-24 about Complement Subtree Flag. |
| Purpose | For Sponsor Ballot Comment Resolution |
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# Comments

# Comment r01-24

Does the sentence "If ComplementSubtreeFlag is not present, it means ComplementSubtreeFlag = 0" mean SUBTREE FLAG value is zero? If this is true, what is the meaning of "SUBTREE\_FLAG= 0 (FALSE): Leaf nodes belong to the group" as defined in data type table F.24.

# Suggested remedy for Comment r01-24

Would suggest to clarify and explain in terms of SUBTREE\_FLAG value.

# Outline: Proposed resolution

* Remove the sentence “If ComplementSubtreeFlag is not present, it means ComplementSubtreeFlag = 0” from p.18, l.1, 7.4.31.3.2 and p.20 l.6.
* Revise 9.5.3.2 and Figure 48 to support the case of Complement Subtree Flag TLV is not present in the messages.
1. Detail: Proposed resolution
* Revise 7.4.31.3.2



 a SubgroupRange parameter shall be present for a fragmented GKB.

 b The UserSpecificData parameter can be used to convey additional information such as version information of the GKB used or additional credentials.

 c If CompleteSubree is Null, no Node Index is matched the CompleteSubtree.

~~d If ComplementSubtreeFlag is not present, 1 it means ComplementSubtreeFlag = 0.~~

* Revise 7.4.32.1.2

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a If the ResponseFlag parameter is not present, the MIHF shall 2 generate a request message, otherwise the MIHF generates either a request or an indication message, based on the ResponseFlag parameter.

b SubgroupRange parameter shall be present for a fragmented GKB.

c If CompleteSubree is Null, no Node Index matched the CompleteSubtree.

~~d If ComplementSubtreeFlag is not present, it means ComplementSubtreeFlag = 0.~~

e In case the GroupKeyData parameter is not present, the CompleteSubtree parameter shall be present.

* Revise 9.5.3.2 Receiving procedures for group manipulation commands (9.73)

 a) If a SubgroupRange TLV exists in the message, the MIHF obtains a SubgroupRange and checks whether its own Leaf Number is contained in the SubgroupRange or not. If it is not, the MIHF shall cancel the following steps and stop processing.

 b) The MIHF processes the Complete Subtree in the Complete Subtree TLV, a GroupKeyData in the Group Key Data TLV, and a VerifyGroupCode in the Verify Group Code TLV as described in 9.5.2.2. If the MIHF succeeds to find a matching pair of Node Indices, go to Step c). Otherwise, go to Step d).

 c) If ComplementSubtreeFrag in the Complement Subtree Flag TLV is “0” or the Complement Subtree Flag TLV is not present, go to Step e), else go to Step m).

 d) If ComplementSubtreeFrag in the Complement Subtree Flag TLV is “0” or the Complement Subtree Flag TLV is not present, go to Step m), else go to Step f).

 e) If a group key MGK is derived in Step b), the MIHF obtains a SAID in the SAID notification TLV.

* Revise Figure 48



(ComplementSubtreeFlag == 0) or (Complement Subtree Flag TLV is not present)

(ComplementSubtreeFlag == 0) or (Complement Subtree Flag TLV is not present)