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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 r01-32** |
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| Re: | IEEE 802.21d Sponsor Ballot comment resolution |
| Abstract | This document describes suggested remedy for SB comment r01-32 about Complement Subtree Flag. |
| Purpose | For Sponsor Ballot Comment Resolution |
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# Comments

# Comment r01-32

What will happen if MIH User does not know the non-group member's MIHF ID.

(9.5.3.1.1 Step d)- iii) )

# Suggested remedy for Comment r01-32

There should be some recommendation to support this scenario.

1. Related Problem:
* CreateCompleteSubtree procedure in 9.5.1.2 and CreateCompleteSubtreeFragment procedure in 9.5.2.3 cannot be take MIHF IDs as input directly. In case of leaf number = MIHF ID, the sentences in the current draft are OK. But, the sentences shall be revised since the MIHF ID may not be a leaf number.

# Problem

 The group management tree may have leaf nodes for which MIHF ID may not be known to the PoS/Group Manager. In such scenarios, leaf node will be used when it a registration request is sent from PoS/MN. Therefore we shall revise 9.5.3.1.1.

* Revise Step d) in “9.5.3.1.1 Group Manager.”
* Revise Figure 48.
1. Detail: Proposed resolution
* Revise Step d) in 9.5.3.1.1

 d) Define CompleteSubtree and SubgroupRange:

 i. Determine ComplementSubtreeFlag value.

 ii. If ComplementSubtreeFlag = 0 or CompleteSubtree is not present.

 1) If CreateCompleteSubtree procedure is used, the MIH User sends leaf numbers that correspond with MIHF IDs of the group members and all Node Indices which represent the group management tree to the CreateCompleteSubtree procedure and receives CompleteSubtree for the GKB.

 2) If CreateCompleteSubtreeFragments procedure is used, the MIH User sends leaf numbers that correspond with MIHF IDs of the group members, all Node Indices which represent the group management tree and a threshold for fragmentation to the CreateCompleteSubtreeFragments procedure and receives CompleteSubtree and SubGroupRange for each GKB fragment. If there is only one GKB fragment created, SubgroupRange is removed.

 iii. If ComplementSubtreeFlag = 1,

 1) If CreateCompleteSubtree procedure is used, the MIH User sends leaf numbers that do not correspond with MIHF IDs of the ~~non-~~group members and all Node Indices which represent the group management tree to the CreateCompleteSubtree procedure and receives CompleteSubtree for the GKB.

 2) If CreateCompleteSubtreeFragments procedure is used, the MIH User sends leaf numbers that do not correspond with the MIHF IDs of the ~~non-~~group members and all Node Indices which represent the group management tree, and a threshold for fragmentation to CreateCompleteSubtreeFragments procedure, and receives CompleteSubtree and SubGroupRange for each GKB fragment. If there is only one GKB fragment created, SubgroupRange is removed.

* Revise Figure 44



Change
“\* INPUT

\* Node Indices

\* Group management tree

\* Threshold for fragmentation”
 to

“\* INPUT

\* Group management tree

\* Threshold for fragmentation”

Change
“\* INPUT

\* Node Indices

\* Group management tree”
 to

“\* INPUT

\* Group management tree”

Change
“INPUT = MIHF\_IDs of group members”
 to

“INPUT = leaf numbers that correspond with MIHF\_IDs of group members”

Change
“INPUT = MIHF\_IDs of non-group members”
 to

“INPUT = leaf numbers that do not correspond with MIHF\_IDs of group members”