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Re:	Contribution on IEEE 802.16f/D5
Abstract	This contribution proposed a method to add conditional event mask feature in event reporting function. With this new feature, network manager can control on what kind of event will be reported from BS and SS. By decreasing useless event flood during special scenarios and make network manager draw their attention more on important events handling.
Purpose	Adoption
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Proposal for Adding Conditional Event Mask for wmanDevCmnEventLogTable

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Introduction

In IEEE802.16f, there are BS and SS trap control definitions which can enable/disable BS and SS event reporting. But current definition of BS and SS trap can be only controlled based on network element level and according to event identifier.

Usually operator may like to disable events notification according to specific object or disable events during some special time periods. It is useful when operators make some operations on specific objects like change spare parts etc. These kinds of operations will generate events but operator doesn't want to take care of them.

This contribution proposes to use conditional event mask to suppress the event reporting action during special scenarios. Several conditions are considered as conditional event mask, which includes object instance and time segment.

To fulfill this goal, object instance description field are required to be added in wmanDevCmnEventLogTable

which can provide more accurate object instance information.

Proposed Text Changes

1. [Change the text in section **13.2.3.1.3 wmanDevCmnEventLogTable** as the following]

1.1 Add object instance description in **13.2.3.1.3 wmanDevCmnEventLogTable**, keep the previous definition intact.

13.2.3.1.3 wmanDevCmnEventLogTable

wmanDevCmnEventLogTable is used to store local events, and should reside in the non-volatile memory.

The Event Log consists of the following features:

- Each event has its corresponding object instance description.

ASN.1 Definitions:

wmanDevCmnEventLogObjectInstance OBJECT-TYPE

       SYNTAX SnmpAdminString

       MAX-ACCESS read-only

       STATUS current

       DESCRIPTION

              "This object describes the event related object instance information."

       ::= { wmanDevCmnEventLogEntry 6 }

1.2 Add Node wmanDevBsEventConditionMaskTable to wmanDevBsTrapControl , keep the previous structure

intact.

ASN.1 Definitions:
wmanDevBsEventConditionMaskTable OBJECT-TYPE
          SYNTAX SEQUENCE OF WmanDevBsEventConditionMaskEntry
          MAX-ACCESS not-accessible
          STATUS current
          DESCRIPTION
                    "This table contains event conditions which are used to disable/enable Base Station
event traps."
          ::= { wmanDevBsTrapControl 2 }

wmanDevBsEventConditionMaskEntry OBJECT-TYPE
          SYNTAX WmanDevBsEventConditionMaskEntry
          MAX-ACCESS not-accessible
          STATUS current
          DESCRIPTION
                    " wmanDevBsEventConditionMaskEntry is indexed by
wmanDevBsEventConditionMaskIndex."
          INDEX { wmanDevBsEventConditionMaskIndex }
          ::= { wmanDevBsEventConditionMaskTable 1 }

```
wmanDevBsEventConditionMaskEntry ::= SEQUENCE {
        wmanDevBsEventConditionMaskIndex                Integer32,
        wmanDevBsMaskStartTime                          TimeStamp,
        wmanDevBsMaskEndTime                            TimeStamp,
        wmanDevBsMaskObjectDescription                  SnmpAdminString}
```

wmanDevBsEventConditionMaskIndex OBJECT-TYPE
          SYNTAX Integer32
          MAX-ACCESS read-only
          STATUS current
          DESCRIPTION
                    " An index identifies the BS event condition mask."
          ::= { wmanDevBsEventConditionMaskEntry 1 }

wmanDevBsMaskStartTime OBJECT-TYPE
          SYNTAX TimeStamp
          MAX-ACCESS read-only
          STATUS current
          DESCRIPTION
                    "Start time for event condition mask."
          ::= { wmanDevBsEventConditionMaskEntry 2 }

wmanDevBsMaskEndTime OBJECT-TYPE
          SYNTAX TimeStamp
          MAX-ACCESS read-only
          STATUS current
          DESCRIPTION
                    "End time for event condition mask."
          ::= { wmanDevBsEventConditionMaskEntry 3 }

wmanDevBsMaskObjectDescription OBJECT-TYPE
       SYNTAX SnmpAdminString
       MAX-ACCESS read-only
       STATUS current
       DESCRIPTION
            "Object instance for event condition mask."
       ::= { wmanDevBsEventConditionMaskEntry 4 }

1.3 Modify "wmanDevBsEventTrap" notification parameter, add "wmanDevCmnEventLogObjectInstance".
ASN.1 Definition:
wmanDevBsEventTrap NOTIFICATION-TYPE
       OBJECTS { wmanDevCmnEventId, wmanDevCmnEventLogIndex,
wmanDevCmnEventLogObjectInstance, wmanDevCmnEventLoggedTime, wmanDevCmnEventDescription,
           wmanDevCmnEventSeverity }
       STATUS current
       DESCRIPTION
            "This trap is sent when an event is logged into the table
            wmanDevCmnEventLogTable."
       ::= { wmanDevBsTrapPrefix 1 }

1.4 Add Node wmanDevSsEventConditionMaskTable to wmanDevSsTrapControl , keep the previous structure intact.
ASN.1 Definitions:

wmanDevSsEventConditionMaskTable OBJECT-TYPE
       SYNTAX SEQUENCE OF WmanDevSsEventConditionMaskEntry
       MAX-ACCESS not-accessible
       STATUS current
       DESCRIPTION
            "This table contains event conditions which are used to disable/enable Subscriber
Station event traps."
       ::= { wmanDevSsTrapControl 2 }

wmanDevSsEventConditionMaskEntry OBJECT-TYPE
       SYNTAX WmanDevSsEventConditionMaskEntry
       MAX-ACCESS not-accessible
       STATUS current
       DESCRIPTION
            "wmanDevSsEventConditionMaskEntry is indexed by
wmanDevSsEventConditionMaskIndex."
       INDEX { wmanDevSsEventConditionMaskIndex }
       ::= { wmanDevSsEventConditionMaskTable 1 }

```
wmanDevSsEventConditionMaskEntry ::= SEQUENCE {
      wmanDevSsEventConditionMaskIndex                    Integer32,
      wmanDevSsMaskStartTime                              TimeStamp,
      wmanDevSsMaskEndTime                                TimeStamp,
      wmanDevSsMaskObjectDescription                     SnmpAdminString}
```

wmanDevSsEventConditionMaskIndex OBJECT-TYPE
    SYNTAX Integer32

        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "An index identifies the SS event condition mask."
        ::= { wmanDevSsEventConditionMaskEntry 1 }

wmanDevSsMaskStartTime OBJECT-TYPE
        SYNTAX TimeStamp
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "Start time for event condition mask."
        ::= { wmanDevSsEventConditionMaskEntry 2 }

wmanDevSsMaskEndTime OBJECT-TYPE
        SYNTAX TimeStamp
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "End time for event condition mask."
        ::= { wmanDevSsEventConditionMaskEntry 3 }

wmanDevSsMaskObjectDescription OBJECT-TYPE
        SYNTAX SnmpAdminString
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "Object instance for event condition mask."
        ::= { wmanDevSsEventConditionMaskEntry 4 }