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Title	BS and SS Event Log for wmanIfMib		
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Re:			
Abstract	Event logging provides a standard and centralized way to record important software and hardware events. It is instrumental to fault mitigation, system debugging, and the monitoring of the system operation, performance. This contribution proposed the BS and SS event log MIB to be included wmanIfMib in IEEE P802.16f/D1.		
Purpose	Adoption		
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₂ **1. Introduction**

3 Event logging provides a standard and centralized way to record important software and

- 4 hardware events. Event Log MIB records the transient information associated with an
- 5 event against the possibility that the Notification message can be lost. It is instrumental to
- 6 fault mitigation, system debugging, and the monitoring of the system operation,
- performance. This contribution proposed the BS and SS event log MIB to be included in
 wmanIfMib in IEEE P802.16f/D1.

9 2. Event Log Requirements

10 11		BsEventTable and wmanlfBsEventTab nd SS respectively. Each event entry of	le store the events that are are supported contains the following attributes:
12 13	•	wmanlfBsEventIdentifier – the identifie	er of an event
14 15	•	wmanIfBsEventDescription – a string configurable from NMS.	description of the event. It can be
16	•	wmanlfBsEventSeverity the severity	of an event. It is configurable from NMS.
17 18 19		errors that prevents normal sy	rendor-specific 'fatal' hardware or software stem operation and causes reporting by define their own set of emergency events.
20 21 22 23 24 25		not caused by hardware or so the critical event, the system N The alert event could not be re	n causes reporting system to reboot but it is ftware malfunctioning. After recovering from /UST send a cold/warm start notification. eported as a Trap or SYSLOG message ernal log file. The code of this event MUST ory and reported later.
26 27 28 29 30 31		from transmitting data but cou system. After recovering from notification. Critical events cou	t requires attention and prevents the device ld be recovered without rebooting the the error event SS MUST send the Link Up ild not be reported as a Trap or SYSLOG d in the internal log file. The code of this
32 33 34			could interrupt the normal data flow but will r. Error events could be reported in real time mechanism.
35 36 37 38 39		will not cause the SS to re-reg both SS and BS have informa	that could interrupt the normal data flow but ister. 'Warning' level is assigned to events tion about. To prevent sending the same e BS, the trap and Syslog reporting ault for this level.
40 41		• Notice – The event is importa in real time by using the trap of	nt, but is not a failure and could be reported r SYSLOG mechanism.

1 2		 Informational – The event is of marginal importance, and is not failure, but could be helpful for tracing the normal modem operation.
3		• Debug – Reserved for vendor-specific non-critical events.
4 5	•	wmanIfSsEventNotification – a Boolean value determines if a trap should be reported.
6	•	wmanlfSsEventNotificationOid – the object identifier of the event.
7 8	The Ev	vent Log consists of the following requirements:
9 10 11 12	•	Event log uses the wrap-around buffers to store events. When the buffer is full, the oldest entry will be removed to make room for the new entry. The wrap- around can be disabled by NMS to prevent faulty events from flooding the log buffer quickly.
13	•	The sizes of the buffers are configurabale.
14	•	Events in the log have a lifespan that is also configurable.
15 16	•	NMS can set the minimum severity fo the events that should be logged into the buffer.
17	•	The content of each entry will be retained after the power reset.
18	•	Certain events can trigger notifications that will be sent to NMS.
19	•	A pointer is provided to enable the access the latest event.
20 21 22	Each e	entry consists of the following objects:
23	•	wmanlfSsEventIdentifier – the event ID.
24	•	wmanlfSsEventLoggedTime - the time when the event occurred.
25	•	wmanlfSsEventDescription – a string description of the event.
06	-	wmanlfScEventSoverity the coverity of the event

wmanlfSsEventSeverity – the severity of the event.

27 3. Event Log ASN.1 Definition

```
28
29 WmanIfEventSeverity ::= TEXTUAL-CONVENTION
30
         STATUS current
31
          DESCRIPTION
32
               "WmanIfEventSeverity defines the alarm Severity of an
33
               event."
34
          SYNTAX INTEGER {emergency(1),
35
                               alert(2),
36
                               critical(3),
37
                               error(4),
38
                               warning(5),
39
                               notice(6),
40
                               informational(7),
41
                               debug(8)}
42
```

```
1 ---
2 -- BS Event log configuration
3 --
4 wmanIfBsEventLogEntryLimit
                                 OBJECT-TYPE
5
           SYNTAX
                       INTEGER
6
           MAX-ACCESS read-write
7
           STATUS
                       current
8
           DESCRIPTION
9
               "The maximum number of event entries that may be held
10
                in wmanIfBsEventLogTable. If an application changes
11
                the limit while there are events in the log, the
12
                oldest events must be discarded to bring the log down
                to the new limit."
13
14
           DEFVAL
                      { 200 }
15
           ::= { wmanIfBsEventLog 1 }
16
17 wmanIfBsEventLifeTimeLimit
                                OBJECT-TYPE
18
          SYNTAX
                      INTEGER
                       "minutes"
19
           UNITS
20
           MAX-ACCESS read-write
21
           STATUS
                       current
22
           DESCRIPTION
23
               "The number of minutes an event should be kept in the log
                before it is automatically removed. If an application
24
25
                changes the value of wmanIfBsEventLifeTimeLimit, events
26
                that are older than the new time may be discarded to meet
27
                the new lifetime. A value of 0 means lifetime limit."
28
                       { 1440 }
           DEFVAL
29
           ::= { wmanIfBsEventLog 2 }
30
31 wmanIfBsEventLogSeverityThreshold
                                        OBJECT-TYPE
32
           SYNTAX
                       WmanIfEventSeverity
33
           MAX-ACCESS read-write
34
           STATUS
                       current
35
           DESCRIPTION
               "This object defines the minimum severity level of the
36
37
                event that will be logged into the buffer."
38
           DEFVAL
                       { warning }
39
           ::= { wmanIfBsEventLog 3 }
40
41 wmanIfBsEventLogWrapAroundBuffEnable OBJECT-TYPE
42
           SYNTAX
                       TruthValue
43
           MAX-ACCESS read-write
44
           STATUS
                       current
45
           DESCRIPTION
46
               "True (1), indicates that the log buffer will be wrapped
47
               around when the buffer is full."
48
           DEFVAL
                      { 1 }
49
           ::= { wmanIfBsEventLog 4 }
50
51 wmanIfBsEventLogLatestEvent OBJECT-TYPE
                    Unsigned32 (1..4294967295)
52
           SYNTAX
           MAX-ACCESS not-accessible
53
54
           STATUS
                   current
```

```
1
           DESCRIPTION
2
               "This object is the index pointing to the latest event in
3
                wmanIfBsEventLogTable"
 4
                      { 1 }
           DEFVAL
5
           ::= { wmanIfBsEventLog 5 }
6
7 wmanIfBsEventTable OBJECT-TYPE
                     SEQUENCE OF WmanIfBsEventEntry
8
           SYNTAX
           MAX-ACCESS not-accessible
9
10
           STATUS current
11
           DESCRIPTION
12
               "This table provides the events that are supported by BS."
13
           ::= { wmanIfBsEventLog 6 }
14
15 wmanIfBsEventEntry OBJECT-TYPE
16
           SYNTAX
                      WmanIfBsEventEntry
17
           MAX-ACCESS not-accessible
18
                   current
           STATUS
19
           DESCRIPTION
               "Each entry in this table represents an event that can be
20
21
                generated by BS. It is indexed by ifIndex and
                wmanIfBsEventId."
22
                       { ifIndex, wmanIfBsEventIdentifier }
23
           INDEX
24
           ::= { wmanIfBsEventTable 1 }
25
26 WmanIfBsEventEntry ::= SEQUENCE {
27
           wmanIfBsEventIdentifier
                                                   INTEGER,
28
           wmanIfBsEventDescription
                                                   SnmpAdminString,
29
           wmanIfBsEventSeverity
                                                   WmanIfEventSeverity,
30
           wmanIfBsEventNotification
                                                   TruthValue,
31
           wmanIfBsEventNotificationOid
                                                  OBJECT IDENTIFIER}
32
33 wmanIfBsEventIdentifier OBJECT-TYPE
                   INTEGER (1..100000)
34
          SYNTAX
35
           MAX-ACCESS not-accessible
36
           STATUS
                      current
37
           DESCRIPTION
38
               "A numeric value represents the Event Identifier."
39
           ::= { wmanIfBsEventEntry 1 }
40
41 wmanIfBsEventDescription OBJECT-TYPE
42
           SYNTAX SnmpAdminString
43
           MAX-ACCESS read-write
44
           STATUS
                     current
45
           DESCRIPTION
46
               "This object describes the event."
47
           ::= { wmanIfBsEventEntry 2 }
48
49 wmanIfBsEventSeverity OBJECT-TYPE
50
           SYNTAX
                      WmanIfEventSeverity
51
          MAX-ACCESS read-write
52
          STATUS
                    current
53
           DESCRIPTION
54
               "This object describes the severity of such event.
```

```
1
                The system will assign a severity for each event. But,
2
                it can be configurable by NMS"
3
           ::= { wmanIfBsEventEntry 3 }
4
  wmanIfBsEventNotification OBJECT-TYPE
5
6
           SYNTAX
                       TruthValue
7
           MAX-ACCESS read-write
8
                       current
           STATUS
9
           DESCRIPTION
10
               "An event notification will be reported when it is
11
                True (1)."
12 --
             DEFVAL
                         { 0 }
13
           ::= { wmanIfBsEventEntry 4 }
14
15 wmanIfBsEventNotificationOid OBJECT-TYPE
16
           SYNTAX
                       OBJECT IDENTIFIER
17
           MAX-ACCESS read-only
18
                     current
           STATUS
19
           DESCRIPTION
20
               "This is the object identifier of a NOTIFICATION-TYPE
21
                object. If wmanIfBsEventNotification is True, a trap that
22
                is identified by this OID will be reported."
23
                       { wmanBsEventTrap }
           DEFVAL
24
           ::= { wmanIfBsEventEntry 5 }
25
26 wmanIfBsEventLogTable OBJECT-TYPE
27
           SYNTAX
                       SEQUENCE OF WmanIfBsEventLogEntry
28
           MAX-ACCESS not-accessible
29
           STATUS
                       current
30
           DESCRIPTION
31
               "This is the Syslog table that is used to store Bs local
32
                events. This table should reside in the non-volatile
33
                memory that should presist after power cycle or reboot.
34
                The number of entries in this table is determined by
35
                wmanIfBsEventLogEntryLimit. It is a wrap around buffer.
                When the buffer is full, the oldest entry will be removed
36
37
                to make room for the newest entry."
38
           ::= { wmanIfBsEventLog 7 }
39
40 wmanIfBsEventLogEntry OBJECT-TYPE
41
           SYNTAX
                      WmanIfBsEventLogEntry
42
           MAX-ACCESS not-accessible
43
           STATUS
                       current
44
           DESCRIPTION
45
               "Entries appear in this table when events occur, and are
46
                removed to make ways for new entries when buffer is full,
47
                the entry passes the lifetime limit. This table is
48
                indexed by ifIndex and wmanIfBsEventLogIndex."
49
                       { ifIndex, wmanIfBsEventLogIndex }
           INDEX
50
           ::= { wmanIfBsEventLogTable 1 }
51
52 WmanIfBsEventLogEntry ::= SEQUENCE {
          wmanIfBsEventLogIndex
53
                                                    Unsigned32,
54
           wmanIfBsEventId
                                                    INTEGER,
```

```
1
                                                    TimeStamp,
           wmanIfBsEventLoggedTime
2
           wmanIfBsEventLogDescription
                                                    SnmpAdminString,
3
           wmanIfBsEventLogSeverity
                                                    WmanIfEventSeverity}
 4
5
  wmanIfBsEventLogIndex OBJECT-TYPE
6
           SYNTAX
                      Unsigned32 (1..4294967295)
7
           MAX-ACCESS read-only
8
           STATUS
                       current
9
           DESCRIPTION
10
               "A monotonically increasing integer for the sole purpose
11
                of indexing entries within the event log. When it
12
                reaches the maximum value, the agent wraps the value
                back to 1."
13
14
           ::= { wmanIfBsEventLogEntry 1 }
15
16 wmanIfBsEventId OBJECT-TYPE
17
           SYNTAX
                       INTEGER
18
           MAX-ACCESS read-only
19
           STATUS
                       current
20
           DESCRIPTION
21
               "The identifier of a BS event."
22
           ::= { wmanIfBsEventLogEntry 2 }
23
24 wmanIfBsEventLoggedTime OBJECT-TYPE
25
           SYNTAX
                       TimeStamp
26
           MAX-ACCESS read-only
27
           STATUS
                       current
28
           DESCRIPTION
29
               "The value of sysUpTime when the entry was placed in the
30
                log. If the entry occurred before the most recent
31
                management system initialization this object value must
32
                be set to zero."
33
           ::= { wmanIfBsEventLogEntry 3 }
34
35 wmanIfBsEventLogDescription OBJECT-TYPE
36
           SYNTAX
                       SnmpAdminString
37
           MAX-ACCESS read-only
38
           STATUS
                       current
39
           DESCRIPTION
40
               "This object describes the event."
41
           ::= { wmanIfBsEventLogEntry 4 }
42
43 wmanIfBsEventLogSeverity OBJECT-TYPE
44
           SYNTAX
                       WmanIfEventSeverity
45
           MAX-ACCESS read-only
46
           STATUS
                       current
47
           DESCRIPTION
48
               "This object describes the severity of such event."
49
           ::= { wmanIfBsEventLogEntry 5 }
50
51 wmanBsEventTrap NOTIFICATION-TYPE
52
           OBJECTS
                        {wmanIfBsEventId,
53
                        wmanIfBsEventLogIndex,
54
                        wmanIfBsEventLoggedTime,
```

```
1
                        wmanIfBsEventDescription,
2
                        wmanIfBsEventSeverity}
3
           STATUS
                       current
4
           DESCRIPTION
5
               "This trap report the event."
6
           ::= { wmanIfBsTrapDefinitions 12 }
7
8
  ___
9
  -- SS Event log configuration
10 --
11 wmanIfSsEventLogEntryLimit
                                 OBJECT-TYPE
12
           SYNTAX
                       INTEGER
13
           MAX-ACCESS read-write
14
           STATUS
                       current
15
           DESCRIPTION
16
               "The maximum number of event entries that may be held
17
                in wmanIfSsEventLogTable. If an application changes
18
                the limit while there are events in the log, the
19
                oldest events must be discarded to bring the log down
20
                to the new limit."
21
           DEFVAL
                       { 100 }
           ::= { wmanIfSsEventLog 1 }
22
23
24 wmanIfSsEventLifeTimeLimit
                                OBJECT-TYPE
25
          SYNTAX
                       INTEGER
26
           UNITS
                       "minutes"
27
           MAX-ACCESS read-write
28
           STATUS
                       current
29
           DESCRIPTION
30
               "The number of minutes an event should be kept in the log
31
                before it is automatically removed. If an application
32
                changes the value of wmanIfSsEventLifeTimeLimit, events
33
                that are older than the new time may be discarded to meet
                the new lifetime. A value of 0 means lifetime limit."
34
35
           DEFVAL
                       { 1440 }
36
           ::= { wmanIfSsEventLog 2 }
37
38 wmanIfSsEventLogSeverityThreshold
                                         OBJECT-TYPE
39
                       WmanIfEventSeverity
           SYNTAX
40
           MAX-ACCESS read-write
41
           STATUS
                       current
42
           DESCRIPTION
43
               "This object defines the minimum severity level of the
44
                event that will be logged into the buffer."
45
           DEFVAL
                       { warning }
46
           ::= { wmanIfSsEventLog 3 }
47
48 wmanIfSsEventLogWrapAroundBuffEnable OBJECT-TYPE
49
           SYNTAX
                      TruthValue
50
           MAX-ACCESS read-write
51
           STATUS
                       current
52
           DESCRIPTION
53
               "True (1), indicates that the log buffer will be wrapped
54
                around when the buffer is full."
```

```
1
          DEFVAL { 1 }
2
          ::= { wmanIfSsEventLog 4 }
3
4 wmanIfSsEventLogLatestEvent OBJECT-TYPE
5
          SYNTAX
                  Unsigned32 (1..4294967295)
6
          MAX-ACCESS not-accessible
7
          STATUS current
          DESCRIPTION
8
9
               "This object is the index pointing to the latest event in
10
               wmanIfSsEventLogTable"
11
          DEFVAL { 1 }
12
          ::= { wmanIfSsEventLog 5 }
13
14 wmanIfSsEventTable OBJECT-TYPE
15
                     SEQUENCE OF WmanIfSsEventEntry
          SYNTAX
          MAX-ACCESS not-accessible
16
17
          STATUS current
18
          DESCRIPTION
19
              "This table provides the events that are supported by SS."
20
           ::= { wmanIfSsEventLog 6 }
21
22 wmanIfSsEventEntry OBJECT-TYPE
23
          SYNTAX WmanIfSsEventEntry
24
          MAX-ACCESS not-accessible
25
          STATUS
                  current
26
          DESCRIPTION
27
               "Each entry in this table represents an event that can be
28
               generated by SS. It is indexed by wmanIfSsEventId."
29
          INDEX { ifIndex, wmanIfSsEventIdentifier }
          ::= { wmanIfSsEventTable 1 }
30
31
32 WmanIfSsEventEntry ::= SEQUENCE {
33
          wmanIfSsEventIdentifier
                                                  INTEGER,
34
          wmanIfSsEventDescription
                                                  SnmpAdminString,
35
          wmanIfSsEventSeverity
                                                 WmanIfEventSeverity,
36
          wmanIfSsEventNotification
                                                 TruthValue,
37
          wmanIfSsEventNotificationOid
                                                OBJECT IDENTIFIER}
38
39 wmanIfSsEventIdentifier OBJECT-TYPE
40
          SYNTAX INTEGER (1..100000)
41
          MAX-ACCESS not-accessible
42
          STATUS
                     current
43
          DESCRIPTION
               "A numeric value represents the Event Identifier."
44
45
          ::= { wmanIfSsEventEntry 1 }
46
47 wmanIfSsEventDescription OBJECT-TYPE
48
                     SnmpAdminString
          SYNTAX
49
          MAX-ACCESS read-write
50
          STATUS
                     current
51
          DESCRIPTION
              "This object describes the event."
52
          ::= { wmanIfSsEventEntry 2 }
53
54
```

```
1 wmanIfSsEventSeverity OBJECT-TYPE
2
           SYNTAX
                       WmanIfEventSeverity
3
           MAX-ACCESS read-write
4
           STATUS
                      current
5
           DESCRIPTION
6
               "This object describes the severity of such event.
7
                The system will assign a severity for each event. But,
8
                it can be configurable by NMS"
9
           ::= { wmanIfSsEventEntry 3 }
10
11 wmanIfSsEventNotification OBJECT-TYPE
                      TruthValue
12
           SYNTAX
13
           MAX-ACCESS read-write
14
           STATUS
                       current
15
           DESCRIPTION
16
               "An event notification will be reported when it is
17
                True (1)."
18 --
            DEFVAL
                         { 0 }
19
           ::= { wmanIfSsEventEntry 4 }
20
21 wmanIfSsEventNotificationOid OBJECT-TYPE
22
           SYNTAX
                      OBJECT IDENTIFIER
           MAX-ACCESS read-only
23
24
           STATUS
                    current
25
           DESCRIPTION
26
               "This is the object identifier of a NOTIFICATION-TYPE
27
                object. If wmanIfSsEventNotification is True, a trap that
28
                is identified by this OID will be reported."
29
           DEFVAL { wmanSsEventTrap }
30
           ::= { wmanIfSsEventEntry 5 }
31
32 wmanIfSsEventLogTable OBJECT-TYPE
33
           SYNTAX
                    SEQUENCE OF WmanIfSsEventLogEntry
34
           MAX-ACCESS not-accessible
35
           STATUS
                       current
36
           DESCRIPTION
37
               "This is the Syslog table that is used to store SS local
38
                events. This table should reside in the non-volatile
39
                memory that should presist after power cycle or reboot.
40
                The number of entries in this table is determined by
41
                wmanIfSsEventLogEntryLimit. It is a wrap around buffer.
42
                When the buffer is full, the oldest entry will be removed
43
                to make room for the newest entry."
44
           ::= { wmanIfSsEventLog 7 }
45
46 wmanIfSsEventLogEntry OBJECT-TYPE
47
           SYNTAX
                    WmanIfSsEventLogEntry
48
           MAX-ACCESS not-accessible
49
           STATUS
                       current
50
           DESCRIPTION
51
               "Entries appear in this table when events occur, and are
52
                removed to make ways for new entries when buffer is full,
53
                the entry passes the lifetime limit. This table is
54
                indexed by ifIndex and wmanIfSsEventLogIndex."
```

```
1
                       { ifIndex, wmanIfSsEventLogIndex }
           INDEX
2
           ::= { wmanIfSsEventLogTable 1 }
3
4 WmanIfSsEventLogEntry ::= SEQUENCE {
5
           wmanIfSsEventLogIndex
                                                    Unsigned32,
6
           wmanIfSsEventId
                                                    INTEGER,
7
           wmanIfSsEventLoggedTime
                                                    TimeStamp,
8
           wmanIfSsEventLogDescription
                                                    SnmpAdminString,
9
           wmanIfSsEventLogSeverity
                                                    WmanIfEventSeverity}
10
11 wmanIfSsEventLogIndex OBJECT-TYPE
12
                    Unsigned32 (1..4294967295)
           SYNTAX
13
           MAX-ACCESS read-only
14
           STATUS
                       current
15
           DESCRIPTION
16
               "A monotonically increasing integer for the sole purpose
17
                of indexing entries within the event log. When it
18
                reaches the maximum value, the agent wraps the value
                back to 1."
19
20
           ::= { wmanIfSsEventLogEntry 1 }
21
22 wmanIfSsEventId OBJECT-TYPE
23
           SYNTAX
                   INTEGER
24
           MAX-ACCESS read-only
25
           STATUS
                     current
26
           DESCRIPTION
27
               "The identifier of a SS event."
28
           ::= { wmanIfSsEventLogEntry 2 }
29
30 wmanIfSsEventLoggedTime OBJECT-TYPE
31
           SYNTAX
                       TimeStamp
32
           MAX-ACCESS read-only
33
           STATUS
                     current
34
           DESCRIPTION
35
               "The value of sysUpTime when the entry was placed in the
                log. If the entry occurred before the most recent
36
37
                management system initialization this object value must
38
                be set to zero."
39
           ::= { wmanIfSsEventLogEntry 3 }
40
41 wmanIfSsEventLogDescription OBJECT-TYPE
42
           SYNTAX
                       SnmpAdminString
43
           MAX-ACCESS read-only
44
           STATUS
                      current
45
           DESCRIPTION
46
               "This object describes the event."
47
           ::= { wmanIfSsEventLogEntry 4 }
48
49 wmanIfSsEventLogSeverity OBJECT-TYPE
50
           SYNTAX
                      WmanIfEventSeverity
51
           MAX-ACCESS read-only
52
           STATUS
                      current
53
           DESCRIPTION
54
               "This object describes the severity of such event."
```

1	<pre>::= { wmanIfSsEventLogEntry 5 }</pre>
2	
3	wmanSsEventTrap NOTIFICATION-TYPE
4	OBJECTS {wmanIfSsEventId,
5	wmanIfSsEventLogIndex,
6	wmanIfSsEventLoggedTime,
7	wmanIfSsEventDescription,
8	wmanIfSsEventSeverity}
9	STATUS current
10	DESCRIPTION
11	"This trap report the event."
12	<pre>::= { wmanIfSsTrapDefinitions 5 }</pre>