



# Unleashed 200.2

## SNMP Reference Guide

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# About This Guide

# 1

## About This Guide

This *Reference Guide* provides information on the Ruckus Wireless™ Unleashed Simple Network Management Protocol Management Information Base (MIBs) that Unleashed supports.

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**NOTE** For information on how to enable SNMP trap delivery and configure other SNMP settings on the Unleashed Web interface, refer to the Unleashed Online Help, available from within the web interface.

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### Related Documentation

In addition to this *Reference Guide*, each Unleashed documentation set includes the following:

- *Online Help*: Provides instructions for performing tasks using the Unleashed web interface. The online help is accessible from the web interface and is searchable.
- *Release Notes*: Provide information about the current software release, including new features, enhancements, and known issues.

### Documentation Feedback

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When contacting us, please include the following information:

- Document title
- Document part number (on the cover page)
- Page number (if appropriate)

For example:

- Unleashed 200.2 SNMP Reference Guide
- Part number: 800-71319-001 Revision A
- Page 28

### Online Training Resources

To access a variety of online Ruckus Wireless training modules, including free introductory courses to wireless networking essentials, site surveys, and Ruckus Wireless products, visit the Ruckus Wireless Training Portal at: <https://training.ruckuswireless.com>.



## Root MIBs

This section describes the Unleashed SNMP MIBs contained in the RUCKUS-ROOT-MIB.txt file.

```
RUCKUS-ROOT-MIB DEFINITIONS ::= BEGIN

IMPORTS
    enterprises,
    MODULE-IDENTITY
        FROM SNMPv2-SMI;

ruckusRootMIB MODULE-IDENTITY
    LAST-UPDATED "201510150800Z"
    ORGANIZATION "Ruckus Wireless, Inc."
    CONTACT-INFO
        "Ruckus Wireless, Inc.

        Postal:
        350 West Java Dr.
        Sunnyvale, CA 94089
        USA

        EMail: support@ruckuswireless.com

        Phone: +1-650-265-4200"
    DESCRIPTION
        "Ruckus top level mib."
    ::= { enterprises 25053 }

-- Groups
--

ruckusObjects OBJECT IDENTIFIER ::= { ruckusRootMIB 1 }

ruckusCommon OBJECT IDENTIFIER ::= { ruckusObjects 1 }

ruckusCommonTCModule OBJECT IDENTIFIER ::= { ruckusCommon
1 }

ruckusUnleashed OBJECT IDENTIFIER ::= { ruckusObjects 15 }

ruckusUnleashedSystemModule OBJECT IDENTIFIER ::= {
ruckusUnleashed 1 }

ruckusUnleashedWLANModule OBJECT IDENTIFIER ::= {
ruckusUnleashed 2 }
```

```
ruckusEvents OBJECT IDENTIFIER ::= { ruckusRootMIB 2 }  
  
END
```

## Unleashed Event MIBs

This section describes the contents of the RUCKUS-UNLEASHED-EVENT-MIB.txt file.

**NOTE** By default, all SNMP traps are disabled. If you need to enable a trap, you can enable it using an **SNMP set** command under the scalar MIB nodes:  
*ruckusUnleashedEventTrapSwitchCmd*.

```
RUCKUS-UNLEASHED-EVENT-MIB DEFINITIONS ::= BEGIN

IMPORTS
    ruckusEvents
        FROM RUCKUS-ROOT-MIB
    MacAddress,
    DisplayString
        FROM SNMPv2-TC
    OBJECT-GROUP,
    MODULE-COMPLIANCE
        FROM SNMPv2-CONF
    MODULE-IDENTITY,
    OBJECT-TYPE,
    Unsigned32,
    IPAddress
        FROM SNMPv2-SMI;

ruckusUnleashedEventMIB MODULE-IDENTITY
    LAST-UPDATED "201010150800Z"
    ORGANIZATION "Ruckus Wireless, Inc."
    CONTACT-INFO
        "Ruckus Wireless Inc.

        Postal:
        350 West Java Dr.
        Sunnyvale, CA 94089
        USA

        EMail: support@ruckuswireless.com

        Phone: +1-650-265-4200"
    DESCRIPTION
        "Ruckus Unleashed event objects, including trap OID
and trap payload."
    ::= { ruckusEvents 15 }

-- Groups
--
```



```
ruckusUnleashedEventTraps OBJECT IDENTIFIER ::= {
ruckusUnleashedEventMIB 1 }

ruckusUnleashedEventObjects OBJECT IDENTIFIER ::= {
ruckusUnleashedEventMIB 2 }

ruckusUnleashedEventTrapSwitchCmd OBJECT IDENTIFIER ::=
{ ruckusUnleashedEventMIB 3 }

-- Ruckus Traps
--

ruckusUnleashedEventAPJoinTrap NOTIFICATION-TYPE
OBJECTS      { ruckusUnleashedEventSerial,
               ruckusUnleashedEventNEID,
               ruckusUnleashedEventSeverity,
               ruckusUnleashedEventType,
               ruckusUnleashedEventTime,
               ruckusUnleashedEventStatus,
               ruckusUnleashedEventTitle,
               ruckusUnleashedEventAPMacAddr }
STATUS       current
DESCRIPTION
    "Trigger when there is a AP join event.
    The AP's MAC address is enclosed."
::= { ruckusUnleashedEventTraps 1 }

ruckusUnleashedEventAPLostTrap NOTIFICATION-TYPE
OBJECTS      { ruckusUnleashedEventSerial,
               ruckusUnleashedEventNEID,
               ruckusUnleashedEventSeverity,
               ruckusUnleashedEventType,
               ruckusUnleashedEventTime,
               ruckusUnleashedEventStatus,
               ruckusUnleashedEventTitle,
               ruckusUnleashedEventAPMacAddr }
STATUS       current
DESCRIPTION
    "Trigger when AP lost contact.
    The AP's MAC address is enclosed."
::= { ruckusUnleashedEventTraps 5 }

ruckusUnleashedEventAPSystemColdStartTrap NOTIFICATION-TYPE
OBJECTS      { ruckusUnleashedEventSerial,
               ruckusUnleashedEventNEID,
               ruckusUnleashedEventSeverity,
               ruckusUnleashedEventType,
               ruckusUnleashedEventTime,
               ruckusUnleashedEventStatus,
               ruckusUnleashedEventTitle,
               ruckusUnleashedEventAPMacAddr,
```

```

        ruckusUnleashedEventOccurTime }
STATUS      current
DESCRIPTION
    "Trigger when an AP performs cold start."
 ::= { ruckusUnleashedEventTraps 31 }

ruckusUnleashedEventAPSystemWarmStartTrap NOTIFICATION-TYPE
OBJECTS     { ruckusUnleashedEventSerial,
              ruckusUnleashedEventNEID,
              ruckusUnleashedEventSeverity,
              ruckusUnleashedEventType,
              ruckusUnleashedEventTime,
              ruckusUnleashedEventStatus,
              ruckusUnleashedEventTitle,
              ruckusUnleashedEventAPMacAddr,
              ruckusUnleashedEventOccurTime }
STATUS      current
DESCRIPTION
    "Trigger when an AP performs warm start."
 ::= { ruckusUnleashedEventTraps 32 }

ruckusUnleashedEventAPRadioOn NOTIFICATION-TYPE
OBJECTS     { ruckusUnleashedEventSerial,
              ruckusUnleashedEventNEID,
              ruckusUnleashedEventSeverity,
              ruckusUnleashedEventType,
              ruckusUnleashedEventTime,
              ruckusUnleashedEventStatus,
              ruckusUnleashedEventTitle,
              ruckusUnleashedEventAPMacAddr,
              ruckusUnleashedEventAPRadioIndex,
              ruckusUnleashedEventOccurTime
              }
STATUS      current
DESCRIPTION
    "AP Radio ON, the period is 60 seconds"
 ::= { ruckusUnleashedEventTraps 130 }

ruckusUnleashedEventAPRadioOff NOTIFICATION-TYPE
OBJECTS     { ruckusUnleashedEventSerial,
              ruckusUnleashedEventNEID,
              ruckusUnleashedEventSeverity,
              ruckusUnleashedEventType,
              ruckusUnleashedEventTime,
              ruckusUnleashedEventStatus,
              ruckusUnleashedEventTitle,
              ruckusUnleashedEventAPMacAddr,
              ruckusUnleashedEventAPRadioIndex,
              ruckusUnleashedEventOccurTime
              }
STATUS      current
DESCRIPTION
```

```

        "AP Radio OFF, the period is 60 seconds"
 ::= { ruckusUnleashedEventTraps 131 }

ruckusUnleashedEventMasterAPSwitch NOTIFICATION-TYPE
    OBJECTS      { ruckusUnleashedEventSerial,
                  ruckusUnleashedEventNEID,
                  ruckusUnleashedEventSeverity,
                  ruckusUnleashedEventType,
                  ruckusUnleashedEventTime,
                  ruckusUnleashedEventStatus,
                  ruckusUnleashedEventTitle,
                  ruckusUnleashedEventContent}
    STATUS       current
    DESCRIPTION  "[master ap switch: Unleashed network change master
role
                  from [172.18.151.1]/[e0:10:7f:28:2d:70]
                  into [172.18.151.9]/[6c:aa:b3:3d:66:30]"
 ::= { ruckusUnleashedEventTraps 138 }

-- Trap payload
--

ruckusUnleashedEventSerial OBJECT-TYPE
    SYNTAX      OCTET STRING
    MAX-ACCESS  accessible-for-notify
    STATUS      current
    DESCRIPTION  "Trap serial number."
 ::= { ruckusUnleashedEventObjects 1 }

ruckusUnleashedEventNEID OBJECT-TYPE
    SYNTAX      OCTET STRING
    MAX-ACCESS  accessible-for-notify
    STATUS      current
    DESCRIPTION  "Network element ID."
 ::= { ruckusUnleashedEventObjects 2 }

ruckusUnleashedEventSeverity OBJECT-TYPE
    SYNTAX      OCTET STRING
    MAX-ACCESS  accessible-for-notify
    STATUS      current
    DESCRIPTION  "Severity level of the trap."
 ::= { ruckusUnleashedEventObjects 3 }

ruckusUnleashedEventType OBJECT-TYPE
    SYNTAX      OCTET STRING
    MAX-ACCESS  accessible-for-notify
    STATUS      current
    DESCRIPTION  "Trap type."

```

```
 ::= { ruckusUnleashedEventObjects 4 }

ruckusUnleashedEventTime OBJECT-TYPE
    SYNTAX      OCTET STRING
    MAX-ACCESS  accessible-for-notify
    STATUS      current
    DESCRIPTION
        "Time when trap reported."
    ::= { ruckusUnleashedEventObjects 5 }

ruckusUnleashedEventStatus OBJECT-TYPE
    SYNTAX      INTEGER { raise(1),
                        clear(2) }
    MAX-ACCESS  accessible-for-notify
    STATUS      current
    DESCRIPTION
        "Trap status."
    ::= { ruckusUnleashedEventObjects 6 }

ruckusUnleashedEventTitle OBJECT-TYPE
    SYNTAX      OCTET STRING
    MAX-ACCESS  accessible-for-notify
    STATUS      current
    DESCRIPTION
        "Trap title."
    ::= { ruckusUnleashedEventObjects 7 }

ruckusUnleashedEventContent OBJECT-TYPE
    SYNTAX      OCTET STRING
    MAX-ACCESS  accessible-for-notify
    STATUS      current
    DESCRIPTION
        "Trap content."
    ::= { ruckusUnleashedEventObjects 8 }

ruckusUnleashedEventOccurTime OBJECT-TYPE
    SYNTAX      OCTET STRING
    MAX-ACCESS  accessible-for-notify
    STATUS      current
    DESCRIPTION
        "Time when trap occur."
    ::= { ruckusUnleashedEventObjects 10 }

ruckusUnleashedEventAPRadioIndex OBJECT-TYPE
    SYNTAX      OCTET STRING
    MAX-ACCESS  accessible-for-notify
    STATUS      current
    DESCRIPTION
        "AP radio index, 0, 2.4G, 1, 5G."
    ::= { ruckusUnleashedEventObjects 11 }

ruckusUnleashedEventClientMacAddr OBJECT-TYPE
    SYNTAX      OCTET STRING
```

```
MAX-ACCESS    accessible-for-notify
STATUS        current
DESCRIPTION
    "The client's MAC address."
 ::= { ruckusUnleashedEventObjects 15 }

ruckusUnleashedEventAPMacAddr OBJECT-TYPE
SYNTAX        OCTET STRING
MAX-ACCESS    accessible-for-notify
STATUS        current
DESCRIPTION
    "The AP's MAC address."
 ::= { ruckusUnleashedEventObjects 18 }

ruckusUnleashedEventSSID OBJECT-TYPE
SYNTAX        OCTET STRING
MAX-ACCESS    accessible-for-notify
STATUS        current
DESCRIPTION
    "SSID."
 ::= { ruckusUnleashedEventObjects 23 }

ruckusUnleashedEventIpAddr OBJECT-TYPE
SYNTAX        OCTET STRING
MAX-ACCESS    accessible-for-notify
STATUS        current
DESCRIPTION
    "IpAddress (ipv4 and ipv6)."
 ::= { ruckusUnleashedEventObjects 30 }

ruckusUnleashedEventAPJoinTrapSwitchCmd OBJECT-TYPE
SYNTAX        INTEGER{
                enable(1),
                disable(0)}
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
    "trap switch command."
    DEFVAL {disable}
 ::= { ruckusUnleashedEventTrapSwitchCmd 1 }

ruckusUnleashedEventAPLostTrapSwitchCmd OBJECT-TYPE
SYNTAX        INTEGER{
                enable(1),
                disable(0)}
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
    "trap switch command."
    DEFVAL {disable}
 ::= { ruckusUnleashedEventTrapSwitchCmd 5 }
```

```
ruckusUnleashedEventAPSystemColdStartTrapSwitchCmd OBJECT-TYPE

    SYNTAX  INTEGER{
                enable(1),
                disable(0) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "trap switch command."
        DEFVAL {disable}
    ::= { ruckusUnleashedEventTrapSwitchCmd 31 }

ruckusUnleashedEventAPSystemWarmStartTrapSwitchCmd OBJECT-TYPE

    SYNTAX  INTEGER{
                enable(1),
                disable(0) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "trap switch command."
        DEFVAL {disable}
    ::= { ruckusUnleashedEventTrapSwitchCmd 32 }

ruckusUnleashedEventAPRadioOnTrapSwitchCmd OBJECT-TYPE
    SYNTAX  INTEGER{
                enable(1),
                disable(0) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "trap switch command."
        DEFVAL {disable}
    ::= { ruckusUnleashedEventTrapSwitchCmd 130 }

ruckusUnleashedEventAPRadioOffTrapSwitchCmd OBJECT-TYPE
    SYNTAX  INTEGER{
                enable(1),
                disable(0) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "trap switch command."
        DEFVAL {disable}
    ::= { ruckusUnleashedEventTrapSwitchCmd 131 }

ruckusUnleashedEventMasterAPSwitchTrapSwitchCmd OBJECT-TYPE
    SYNTAX  INTEGER{
                enable(1),
                disable(0) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
```

```
        "trap switch command."  
        DEFVAL {disable}  
        ::= { ruckusUnleashedEventTrapSwitchCmd 138 }  
  
END
```

## Unleashed System MIBs

This section describes the contents of the RUCKUS-UNLEASHED-SYSTEM-MIB.txt file.

```
RUCKUS-UNLEASHED-SYSTEM-MIB DEFINITIONS ::= BEGIN

IMPORTS
    ruckusUnleashedSystemModule
        FROM RUCKUS-ROOT-MIB
    DisplayString,
    MacAddress,
    RowStatus,
    TruthValue
        FROM SNMPv2-TC
    OBJECT-GROUP
        FROM SNMPv2-CONF
    ifIndex,
    InterfaceIndex
        FROM IF-MIB
    MODULE-IDENTITY,
    OBJECT-TYPE,
    Counter32,
    Integer32,
    Unsigned32,
    IPAddress
        FROM SNMPv2-SMI;

ruckusUnleashedSystemMIB MODULE-IDENTITY
    LAST-UPDATED "201510150800Z"
    ORGANIZATION "Ruckus Wireless, Inc."
    CONTACT-INFO
        "Ruckus Wireless, Inc.

        Postal:
        350 West Java Dr.
        Sunnyvale, CA 94089
        USA

        EMail: support@ruckuswireless.com

        Phone: +1-650-265-4200"
    DESCRIPTION
        "Ruckus Unleashed System mib"
    ::= { ruckusUnleashedSystemModule 1 }

ruckusUnleashedSystemObjects OBJECT IDENTIFIER ::= {
    ruckusUnleashedSystemMIB 1 }
```



```
ruckusUnleashedSystemInfo OBJECT IDENTIFIER ::= {
ruckusUnleashedSystemObjects 1 }

ruckusUnleashedSystemName OBJECT-TYPE
    SYNTAX DisplayString(SIZE(1..32))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "System name"
    ::= { ruckusUnleashedSystemInfo 1 }

ruckusUnleashedSystemIPAddr OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "IP Address"
    ::= { ruckusUnleashedSystemInfo 2 }

ruckusUnleashedSystemMacAddr OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (6))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "MAC Address"
    ::= { ruckusUnleashedSystemInfo 3 }

ruckusUnleashedSystemUptime OBJECT-TYPE
    SYNTAX TimeTicks
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Up time"
    ::= { ruckusUnleashedSystemInfo 8 }

ruckusUnleashedSystemModel OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Model"
    ::= { ruckusUnleashedSystemInfo 9 }

ruckusUnleashedSystemLicensedAPs OBJECT-TYPE
    SYNTAX Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Licensed APs"
    ::= { ruckusUnleashedSystemInfo 12 }

ruckusUnleashedSystemMaxSta OBJECT-TYPE
    SYNTAX Unsigned32
```

## System MIBs

### Unleashed System MIBs

```
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Number of max stations allowed."
 ::= { ruckusUnleashedSystemInfo 13 }

ruckusUnleashedSystemSerialNumber OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Serial number"
 ::= { ruckusUnleashedSystemInfo 15 }

ruckusUnleashedSystemVersion OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Software version"
 ::= { ruckusUnleashedSystemInfo 18 }

ruckusUnleashedSystemCountryCode OBJECT-TYPE
SYNTAX OCTET STRING (SIZE (2))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Specifies the country code.
     Each country represented as a two character.

    Here is the list:

    ALBANIA             ->    AL
    ALGERIA             ->    DZ
    ARGENTINA           ->    AR
    ARMENIA             ->    AM
    AUSTRALIA           ->    AU
    AUSTRIA             ->    AT
    AZERBAIJAN         ->    AZ
    BAHRAIN             ->    BH
    BELARUS             ->    BY
    BELGIUM             ->    BE
    BELIZE              ->    BZ
    BOLIVIA             ->    BO
    BRAZIL              ->    BR
    BRUNEI_DARUSSALAM  ->    BN
    BULGARIA           ->    BG
    CANADA              ->    CA
    CHILE               ->    CL
    CHINA               ->    CN
    COLOMBIA           ->    CO
    COSTA_RICA         ->    CR
    CROATIA            ->    HR
```

CYPRUS	->	CY
CZECH	->	CZ
DENMARK	->	DK
DOMINICAN_REPUBLIC	->	DO
ECUADOR	->	EC
EGYPT	->	EG
EL_SALVADOR	->	SV
ESTONIA	->	EE
FINLAND	->	FI
FRANCE	->	FR
FRANCE2	->	F2
GEORGIA	->	GE
GERMANY	->	DE
GREECE	->	GR
GUATEMALA	->	GT
HONDURAS	->	HN
HONG_KONG	->	HK
HUNGARY	->	HU
ICELAND	->	IS
INDIA	->	IN
INDONESIA	->	ID
IRAN	->	IR
IRELAND	->	IE
ISRAEL	->	IL
ITALY	->	IT
JAPAN	->	JP
JAPAN1	->	J1
JAPAN2	->	J2
JAPAN3	->	J3
JAPAN4	->	J4
JAPAN5	->	J5
JAPAN6	->	J6
JAPAN7	->	JP
JAPAN8	->	JP
JAPAN9	->	JP
JAPAN10	->	JP
JAPAN11	->	JP
JAPAN12	->	JP
JAPAN13	->	JP
JAPAN14	->	JP
JAPAN15	->	JP
JAPAN16	->	JP
JAPAN17	->	JP
JAPAN18	->	JP
JAPAN19	->	JP
JAPAN20	->	JP
JAPAN21	->	JP
JAPAN22	->	JP
JAPAN23	->	JP
JAPAN24	->	JP
JORDAN	->	JO
KAZAKHSTAN	->	KZ
KOREA_NORTH	->	KP

## System MIBs

Unleashed System MIBs

```
KOREA_ROC -> KR
KOREA_ROC2 -> K2
KUWAIT -> KW
LATVIA -> LV
LEBANON -> LB
LIECHTENSTEIN -> LI
LITHUANIA -> LT
LUXEMBOURG -> LU
MACAU -> MO
MACEDONIA -> MK
MALAYSIA -> MY
MEXICO -> MX
MONACO -> MC
MOROCCO -> MA
NETHERLANDS -> NL
NEW_ZEALAND -> NZ
NORWAY -> NO
OMAN -> OM
PAKISTAN -> PK
PANAMA -> PA
PERU -> PE
PHILIPPINES -> PH
POLAND -> PL
PORTUGAL -> PT
PUERTO_RICO -> PR
QATAR -> QA
ROMANIA -> RO
RUSSIA -> RU
SAUDI_ARABIA -> SA
SINGAPORE -> SG
SLOVAKIA -> SK
SLOVENIA -> SI
SOUTH_AFRICA -> ZA
SPAIN -> ES
SWEDEN -> SE
SWITZERLAND -> CH
SYRIA -> SY
TAIWAN -> TW
THAILAND -> TH
TRINIDAD_Y_TOBAGO -> TT
TUNISIA -> TN
TURKEY -> TR
UKRAINE -> UA
UAE -> AE
UNITED_KINGDOM -> GB
UNITED_STATES -> US
UNITED_STATES_FCC49 -> US
URUGUAY -> UY
UZBEKISTAN -> UZ
VENEZUELA -> VE
VIET_NAM -> VN
YEMEN -> YE
ZIMBABWE -> ZW"
```

```
 ::= { ruckusUnleashedSystemInfo 20 }

--
-- Unleashed System Statistics, Operation Status
--
ruckusUnleashedSystemStats OBJECT IDENTIFIER ::= {
ruckusUnleashedSystemObjects 15 }

ruckusUnleashedSystemStatsNumAP OBJECT-TYPE
    SYNTAX Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of AP"
    ::= { ruckusUnleashedSystemStats 1 }

ruckusUnleashedSystemStatsNumSta OBJECT-TYPE
    SYNTAX Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of authorized client devices"
    ::= { ruckusUnleashedSystemStats 2 }

ruckusUnleashedSystemStatsWLANTotalRxPkts OBJECT-TYPE
    SYNTAX Counter64
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Total received packets of wireless interfaces"
    ::= { ruckusUnleashedSystemStats 5 }

ruckusUnleashedSystemStatsWLANTotalRxBytes OBJECT-TYPE
    SYNTAX Counter64
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Total received bytes of wireless interfaces"
    ::= { ruckusUnleashedSystemStats 6 }

ruckusUnleashedSystemStatsWLANTotalRxMulticast OBJECT-TYPE
    SYNTAX Counter64
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Total received multicast packets of wireless
interfaces"
    ::= { ruckusUnleashedSystemStats 7 }

ruckusUnleashedSystemStatsWLANTotalTxPkts OBJECT-TYPE
    SYNTAX Counter64
```

## System MIBs

### Unleashed System MIBs

```
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Total transmitted packets of wireless interfaces"
 ::= { ruckusUnleashedSystemStats 8 }

ruckusUnleashedSystemStatsWLANTotalTxBytes OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Total transmitted bytes of wireless interfaces"
 ::= { ruckusUnleashedSystemStats 9 }

ruckusUnleashedSystemStatsWLANTotalTxMulticast OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Total transmitted multicast packets of wireless
interfaces"
 ::= { ruckusUnleashedSystemStats 10 }

ruckusUnleashedSystemStatsWLANTotalTxFail OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Total transmitted fail packets of wireless
interfaces"
 ::= { ruckusUnleashedSystemStats 11 }

ruckusUnleashedSystemStatsWLANTotalTxRetry OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Total transmitted retry packets of wireless
interfaces"
 ::= { ruckusUnleashedSystemStats 12 }

ruckusUnleashedSystemStatsCPUUtil OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "CPU utilization"
 ::= { ruckusUnleashedSystemStats 13 }

ruckusUnleashedSystemStatsMemoryUtil OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
```

```
DESCRIPTION
    "Memory utilization"
 ::= { ruckusUnleashedSystemStats 14 }

ruckusUnleashedSystemStatsNumRegisteredAP OBJECT-TYPE
SYNTAX  Unsigned32
MAX-ACCESS read-only
STATUS  current
DESCRIPTION "Number of registered AP"
 ::= { ruckusUnleashedSystemStats 15 }

ruckusUnleashedSystemStatsWLANTotalAssocFail OBJECT-TYPE
SYNTAX  Counter64
MAX-ACCESS read-only
STATUS  current
DESCRIPTION "Total number of failed station associations."

 ::= { ruckusUnleashedSystemStats 16 }

ruckusUnleashedSystemStatsWLANTotalRxErrFrm OBJECT-TYPE
SYNTAX  Counter64
MAX-ACCESS read-only
STATUS  current
DESCRIPTION "Total number of errornous downlink frames."

 ::= { ruckusUnleashedSystemStats 17 }

ruckusUnleashedSystemStatsWLANTotalTxDroppedPkt OBJECT-TYPE
SYNTAX  Counter64
MAX-ACCESS read-only
STATUS  current
DESCRIPTION "Total number of dropped downlink packets."
 ::= { ruckusUnleashedSystemStats 19 }

ruckusUnleashedSystemStatsWLANTotalTxErrFrm OBJECT-TYPE
SYNTAX  Counter64
MAX-ACCESS read-only
STATUS  current
DESCRIPTION "Total number of errornous downlink frames."

 ::= { ruckusUnleashedSystemStats 20 }

ruckusUnleashedSystemStatsWLANTotalTxDroppedFrm OBJECT-TYPE
SYNTAX  Counter64
MAX-ACCESS read-only
STATUS  current
DESCRIPTION "Total number of dropped downlink frames."
 ::= { ruckusUnleashedSystemStats 21 }

ruckusUnleashedSystemStatsAllNumSta OBJECT-TYPE
SYNTAX  Unsigned32
MAX-ACCESS read-only
STATUS  current
```

## System MIBs

### Unleashed System MIBs

```
DESCRIPTION
    "Number of All client devices"
 ::= { ruckusUnleashedSystemStats 30 }
```

```
END
```





## Unleashed WLAN MIBs

This section describes the contents of the RUCKUS-UNLEASHED-WLAN-MIB.txt file.

```

RUCKUS-UNLEASHED-WLAN-MIB DEFINITIONS ::= BEGIN

IMPORTS
    ruckusUnleashedWLANModule
        FROM RUCKUS-ROOT-MIB
    DisplayString,
    MacAddress,
    RowStatus,
    PhysAddress,
    TruthValue
        FROM SNMPv2-TC
    OBJECT-GROUP
        FROM SNMPv2-CONF
    ifIndex,
    InterfaceIndex
        FROM IF-MIB
    IANAifType
        FROM IANAifType-MIB
    MODULE-IDENTITY,
    OBJECT-TYPE,
    Counter32,
    Integer32,
    Unsigned32,
    IPAddress
        FROM SNMPv2-SMI;

ruckusUnleashedWLANMIB MODULE-IDENTITY
    LAST-UPDATED "201510150800Z"
    ORGANIZATION "Ruckus Wireless, Inc."
    CONTACT-INFO
        "Ruckus Wireless, Inc.

        Postal:
        350 West Java Dr.
        Sunnyvale, CA 94089
        USA

        EMail: support@ruckuswireless.com

        Phone: +1-650-265-4200"
    DESCRIPTION
        "Ruckus Unleashed WLAN mib"
    ::= { ruckusUnleashedWLANModule 1 }

```

```

ruckusUnleashedWLANObjects OBJECT IDENTIFIER ::= {
ruckusUnleashedWLANMIB 1 }

ruckusUnleashedWLANInfo OBJECT IDENTIFIER ::= {
ruckusUnleashedWLANObjects 1 }

ruckusUnleashedWLANAPInfo OBJECT IDENTIFIER ::= {
ruckusUnleashedWLANObjects 2 }

ruckusUnleashedWLANAPethStatusTable OBJECT-TYPE
    SYNTAX SEQUENCE OF RuckusUnleashedWLANAPethStatusEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Unleashed WLAN AP Ethernet Interface status table
per each AP."
    ::= { ruckusUnleashedWLANAPInfo 8 }

ruckusUnleashedWLANAPethStatusEntry OBJECT-TYPE
    SYNTAX RuckusUnleashedWLANAPethStatusEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each Unleashed WLAN AP ethernet interface
status entry."
    INDEX {
        ruckusUnleashedWLANAPMacAddress,
        ruckusUnleashedWLANAPethPortId }
    ::= { ruckusUnleashedWLANAPethStatusTable 1 }

RuckusUnleashedWLANAPethStatusEntry ::= SEQUENCE {
    ruckusUnleashedWLANAPMacAddress      MacAddress,

    ruckusUnleashedWLANAPethPortId      INTEGER,
    ruckusUnleashedWLANAPethIfname      OCTET STRING,

    ruckusUnleashedWLANAPethPhyStatus   INTEGER,
    ruckusUnleashedWLANAPethPhyIfSpeed  INTEGER,
    ruckusUnleashedWLANAPethPhyLinkStatus  INTEGER,
    ruckusUnleashedWLANAPethLabel      OCTET STRING
}

ruckusUnleashedWLANAPMacAddress OBJECT-TYPE
    SYNTAX MacAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The AP's Mac Address."
    ::= { ruckusUnleashedWLANAPethStatusEntry 1 }

ruckusUnleashedWLANAPethPortId OBJECT-TYPE

```

## WLAN MIBs

### Unleashed WLAN MIBs

```
SYNTAX    INTEGER
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The ap ethernet port id."
 ::= { ruckusUnleashedWLANAPethStatusEntry 2 }

ruckusUnleashedWLANAPethIfname  OBJECT-TYPE
SYNTAX    OCTET STRING
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The name of interface."
 ::= { ruckusUnleashedWLANAPethStatusEntry 5 }

ruckusUnleashedWLANAPethPhyStatus  OBJECT-TYPE
SYNTAX    INTEGER {
            up(1),
            down(2) }
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The ap ethernet port physical status."
 ::= { ruckusUnleashedWLANAPethStatusEntry 8 }

ruckusUnleashedWLANAPethPhyIfSpeed  OBJECT-TYPE
SYNTAX    INTEGER
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The ap ethernet interface's current bandwidth in
Mbits,."
 ::= { ruckusUnleashedWLANAPethStatusEntry 9 }

ruckusUnleashedWLANAPethPhyLinkStatus  OBJECT-TYPE
SYNTAX    INTEGER {
            full(1),
            half(2) }
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The ap ethernet port physical link status."
 ::= { ruckusUnleashedWLANAPethStatusEntry 10 }

ruckusUnleashedWLANAPethLabel  OBJECT-TYPE
SYNTAX    OCTET STRING
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The ap ethernet port label."
 ::= { ruckusUnleashedWLANAPethStatusEntry 11 }
```

END

## Appendix

### Appendix: Changes in This Version

This section lists the changes in SNMP MIBs and OIDs between this version and the previous release.

In this release (Unleashed 200.2), the Smart Redundancy feature has been replaced by an AP Master election system, so that any AP (not just the Standby Master) can become the Unleashed Master AP if the original Master goes offline. Therefore, the SNMP MIB nodes and events for Smart Redundancy have been removed, and replaced with "Master AP Switch" commands and traps.

Unleashed 200.2 contains the following SNMP MIB changes from the previous release:

- Removed MIB nodes:
  - ruckusUnleashedSystemStatus
  - ruckusUnleashedSystemPeerConnectedStatus
  - ruckusUnleashedSystemPeerIpAddr
- Removed MIB events:
  - ruckusUnleashedEventSmartRedundancyChangetoActive
  - ruckusUnleashedEventSmartRedundancyActiveConnected
  - ruckusUnleashedEventSmartRedundancyActiveDisconnected
  - ruckusUnleashedEventSmartRedundancyStandbyConnected
  - ruckusUnleashedEventSmartRedundancyStandbyDisconnected
- New AP switch nodes:
  - ruckusUnleashedEventSmartRedundancyChangetoActiveTrapSwitchCmd
  - ruckusUnleashedEventSmartRedundancyActiveConnectedTrapSwitchCmd
  - ruckusUnleashedEventSmartRedundancyActiveDisconnectedTrapSwitchCmd
  - ruckusUnleashedEventSmartRedundancyStandbyConnectedTrapSwitchCmd
  - ruckusUnleashedEventSmartRedundancyStandbyDisconnectedTrapSwitchCmd
- New MIB events:
  - ruckusUnleashedEventMasterAPSwitch
- New command switch node:
  - ruckusUnleashedEventMasterAPSwitchTrapSwitchCmd



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