



Unleashed 200.1

SNMP Reference Guide

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www.ruckuswireless.com

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About This Guide

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

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.

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.

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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 200.1 SNMP Reference Guide
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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 }
ruckusProducts OBJECT IDENTIFIER ::= { ruckusRootMIB 3 }
```

END

Unleashed Event MIBs

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

```
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: 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 }

ruckusUnleashedEventSmartRedundancyChangetoActive NOTIFICATION-TYPE

    OBJECTS      { ruckusUnleashedEventSerial,
                   ruckusUnleashedEventNEID,
                   ruckusUnleashedEventSeverity,
                   ruckusUnleashedEventType,
                   ruckusUnleashedEventTime,
                   ruckusUnleashedEventStatus,
                   ruckusUnleashedEventTitle,
                   ruckusUnleashedEventIpAddr }
    STATUS        current
    DESCRIPTION   "[Smart Redundancy] Peer Unleashed not found, system
changed to active state"
    ::= { ruckusUnleashedEventTraps 100 }

    ruckusUnleashedEventSmartRedundancyActiveConnected
NOTIFICATION-TYPE
    OBJECTS      { ruckusUnleashedEventSerial,
                   ruckusUnleashedEventNEID,
                   ruckusUnleashedEventSeverity,
                   ruckusUnleashedEventType,
                   ruckusUnleashedEventTime,
                   ruckusUnleashedEventStatus,
                   ruckusUnleashedEventTitle,
                   ruckusUnleashedEventIpAddr }
    STATUS        current
    DESCRIPTION   "[Smart Redundancy] connected, system is in active state"
    ::= { ruckusUnleashedEventTraps 101 }

    ruckusUnleashedEventSmartRedundancyActiveDisconnected
NOTIFICATION-TYPE
    OBJECTS      { ruckusUnleashedEventSerial,
                   ruckusUnleashedEventNEID,
                   ruckusUnleashedEventSeverity,
                   ruckusUnleashedEventType,

```

```

        ruckusUnleashedEventTime,
        ruckusUnleashedEventStatus,
        ruckusUnleashedEventTitle,
        ruckusUnleashedEventIpAddr }
STATUS          current
DESCRIPTION
    "[Smart Redundancy] disconnected, system is in active
state"
 ::= { ruckusUnleashedEventTraps 102 }

ruckusUnleashedEventSmartRedundancyStandbyConnected
NOTIFICATION-TYPE
    OBJECTS      { ruckusUnleashedEventSerial,
                    ruckusUnleashedEventNEID,
                    ruckusUnleashedEventSeverity,
                    ruckusUnleashedEventType,
                    ruckusUnleashedEventTime,
                    ruckusUnleashedEventStatus,
                    ruckusUnleashedEventTitle,
                    ruckusUnleashedEventIpAddr }
STATUS          current
DESCRIPTION
    "[Smart Redundancy] connected, system is in standby state"

 ::= { ruckusUnleashedEventTraps 103 }

rruckusUnleashedEventSmartRedundancyStandbyDisconnected
NOTIFICATION-TYPE
    OBJECTS      { ruckusUnleashedEventSerial,
                    ruckusUnleashedEventNEID,
                    ruckusUnleashedEventSeverity,
                    ruckusUnleashedEventType,
                    ruckusUnleashedEventTime,
                    ruckusUnleashedEventStatus,
                    ruckusUnleashedEventTitle,
                    ruckusUnleashedEventIpAddr }
STATUS          current
DESCRIPTION
    "[Smart Redundancy] disconnected, system is in standby
state"
 ::= { ruckusUnleashedEventTraps 104 }

-- 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 }

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

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

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."
 ::= { ruckusZDEventObjects 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 }

ruckusUnleashedEventSmartRedundancyChangetoActiveTrapSwitchCmd
OBJECT-TYPE
    SYNTAX  INTEGER{
        enable(1),
        disable(0)}
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "trap switch command."
    DEFVAL {disable}
    ::= { ruckusUnleashedEventTrapSwitchCmd 100 }

ruckusUnleashedEventSmartRedundancyActiveConnectedTrapSwitchCmd
OBJECT-TYPE
    SYNTAX  INTEGER{
        enable(1),
        disable(0)}
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "trap switch command."
    DEFVAL {disable}
    ::= { ruckusUnleashedEventTrapSwitchCmd 101 }

ruckusUnleashedEventSmartRedundancyActiveDisconnectedTrapSwitchCmd
OBJECT-TYPE
    SYNTAX  INTEGER{
        enable(1),
        disable(0)}
    MAX-ACCESS read-write

```

```

STATUS current
DESCRIPTION
    "trap switch command."
    DEFVAL {disable}
 ::= { ruckusUnleashedEventTrapSwitchCmd 102 }

ruckusUnleashedEventSmartRedundancyStandbyConnectedTrapSwitchCmd
OBJECT-TYPE
    SYNTAX INTEGER{
        enable(1),
        disable(0)}
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "trap switch command."
        DEFVAL {disable}
 ::= { ruckusUnleashedEventTrapSwitchCmd 103 }

ruckusUnleashedEventSmartRedundancyStandbyDisconnectedTrapSwitchCmd
OBJECT-TYPE
    SYNTAX INTEGER{
        enable(1),
        disable(0)}
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "trap switch command."
        DEFVAL {disable}
 ::= { ruckusUnleashedEventTrapSwitchCmd 104 }

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
    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
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 }
```

```

ruckusUnleashedSystemStatus OBJECT-TYPE
    SYNTAX INTEGER { master(1), standby(2), noredundancy(3) }
    MAX-ACCESS read-only
    STATUS current

```

```

DESCRIPTION
    "current Unleashed system status:
    if enable smart redundancy, the status is master or standby,

    if disable smart redundancy, the status is noredundancy"
DEFVAL { noredundancy }
 ::= { ruckusUnleashedSystemInfo 30 }

ruckusUnleashedSystemPeerConnectedStatus OBJECT-TYPE
SYNTAX  INTEGER { connected(1), disconnected(2) }
MAX-ACCESS read-only
STATUS  current
DESCRIPTION
    "peer Unleashed connected status"
DEFVAL { disconnected }
 ::= { ruckusUnleashedSystemInfo 31 }

ruckusUnleashedSystemPeerIpAddress OBJECT-TYPE
SYNTAX  IpAddress
MAX-ACCESS read-only
STATUS  current
DESCRIPTION
    "peer Unleashed Ip address, it is 0.0.0.0 if disable smart
    redundancy."
 ::= { ruckusUnleashedSystemInfo 32 }

--
-- 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
    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
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
    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: Changes in This Version

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

- None: This is the first release that supports SNMP.