

Unleashed 200.7 SNMP Reference Guide

Supporting Release 200.7

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About This Guide

Introduction

This *Reference Guide* provides information on the Ruckus Unleashed Simple Network Management Protocol (SNMP) Management Information Base objects (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.

Changes in This Version

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

Unleashed release 200.7 contains the following SNMP MIB changes from the previous release (200.6):

MIB Tree	OID	Node Name	Change
ruckusUnleashedWLANAPInfo	ruckusUnleashedWLANAPInfo 1	ruckusUnleashedWLANAPTable	New in 200.7
	ruckusUnleashedWLANAPTable 1	ruckusUnleashedWLANAPEntry	New in 200.7
	ruckusUnleashedWLANAPEntry 1	ruckusUnleashedWLANAPMacAddr	New in 200.7
	ruckusUnleashedWLANAPEntry 2	ruckusUnleashedWLANAPDescription	New in 200.7
	ruckusUnleashedWLANAPEntry 3	ruckusUnleashedWLANAPStatus	New in 200.7
	ruckusUnleashedWLANAPEntry 4	ruckusUnleashedWLANAPModel	New in 200.7
	ruckusUnleashedWLANAPEntry 6	ruckusUnleashedWLANAPUptime	New in 200.7
	ruckusUnleashedWLANAPEntry 9	ruckusUnleashedWLANAPRole	New in 200.7
	ruckusUnleashedWLANAPEntry 11	ruckusUnleashedWLANGpsLatitude	New in 200.7
	ruckusUnleashedWLANAPEntry 12	ruckusUnleashedWLANGpsLongitude	New in 200.7

Related Documentation

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

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

Documentation Feedback

Ruckus Wireless is interested in improving its documentation and welcomes your comments and suggestions. You can email your comments to Ruckus Technical Publications at: docs@ruckuswireless.com

When contacting us, please include the following information:

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

For example:

- Unleashed 200.7 SNMP Reference Guide
- Part number: 800-72001-001 Rev 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>.

Unleashed MIBs

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 }
```

Unleashed MIBs

Event MIBs

```
ruckusUnleashed OBJECT IDENTIFIER ::= { ruckusObjects 15 }
ruckusUnleashedSystemModule OBJECT IDENTIFIER ::= { ruckusUnleashed 1 }
ruckusUnleashedWLANModule OBJECT IDENTIFIER ::= { ruckusUnleashed 2 }
ruckusEvents OBJECT IDENTIFIER ::= { ruckusRootMIB 2 }

END
```

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

```

Unleashed MIBs

Event MIBs

```
    }
    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; or 2.4G 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, or the AP's name."
 ::= { ruckusUnleashedEventObjects 18 }

ruckusUnleashedEventSSID OBJECT-TYPE
    SYNTAX      OCTET STRING
    MAX-ACCESS  accessible-for-notify
    STATUS      current
    DESCRIPTION

```

Unleashed MIBs

Event MIBs

```
"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

```

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

```

Unleashed MIBs

System MIBs

```
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
```

Unleashed MIBs

System MIBs

```
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 }
```

```
--
```

```
-- Unleashed System Statistics, Operation Status
```

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--
```

```
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 }

```

Unleashed MIBs

System MIBs

```
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 erroneous 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 erroneous 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
```

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 }

ruckusUnleashedWLANAPTable OBJECT-TYPE
    SYNTAX SEQUENCE OF RuckusUnleashedWLANAPEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Unleashed WLAN AP table."
    ::= { ruckusUnleashedWLANAPInfo 1 }

ruckusUnleashedWLANAPEntry OBJECT-TYPE

```

Unleashed MIBs

WLAN MIBs

```
SYNTAX RuckusUnleashedWLANAPEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Specifies each Unleashed WLAN AP entry."
INDEX {
    ruckusUnleashedWLANAPMacAddr }
 ::= { ruckusUnleashedWLANAPTable 1 }

RuckusUnleashedWLANAPEntry ::= SEQUENCE {
    ruckusUnleashedWLANAPMacAddr      MacAddress,
    ruckusUnleashedWLANAPDescription  DisplayString,
    ruckusUnleashedWLANAPStatus       INTEGER,
    ruckusUnleashedWLANAPModel        DisplayString,
    ruckusUnleashedWLANAPUptime       TimeTicks,
    ruckusUnleashedWLANAPRole         INTEGER,
    ruckusUnleashedWLANGpsLatitude    OCTET STRING,
    ruckusUnleashedWLANGpsLongitude   OCTET STRING
}

ruckusUnleashedWLANAPMacAddr OBJECT-TYPE
SYNTAX MacAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "MAC address."
 ::= { ruckusUnleashedWLANAPEntry 1 }

ruckusUnleashedWLANAPDescription OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Description."
 ::= { ruckusUnleashedWLANAPEntry 2 }

ruckusUnleashedWLANAPStatus OBJECT-TYPE
SYNTAX INTEGER { disconnected(0), connected(1), approvalPending(2), upgradingFirmware(3),
provisioning(4) }
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The connection status with Unleashed."
 ::= { ruckusUnleashedWLANAPEntry 3 }

ruckusUnleashedWLANAPModel OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Model name."
 ::= { ruckusUnleashedWLANAPEntry 4 }

ruckusUnleashedWLANAPUptime OBJECT-TYPE
SYNTAX TimeTicks
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Up time."
 ::= { ruckusUnleashedWLANAPEntry 6 }

ruckusUnleashedWLANAPRole OBJECT-TYPE
SYNTAX INTEGER { member (0), master (1)}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "AP role, master or member AP."
 ::= { ruckusUnleashedWLANAPEntry 9 }

ruckusUnleashedWLANGpsLatitude OBJECT-TYPE
SYNTAX OCTET STRING
MAX-ACCESS read-only
```

```

STATUS current
DESCRIPTION
    "The AP GPS location measured. the range is '-90,90'."
 ::= { ruckusUnleashedWLANAPEntry 11 }

ruckusUnleashedWLANGpsLongitude OBJECT-TYPE
SYNTAX OCTET STRING
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The AP GPS location measured. the range is '-180,180'."
 ::= { ruckusUnleashedWLANAPEntry 12 }

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),

```

Unleashed MIBs

WLAN MIBs

```
        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
```



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