

ZoneFlex™ Access Point Simple Network Management Protocol

Release 100.0 Reference Guide

Includes commands for ZoneFlex access points and wireless bridges

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About This Guide

This *Ruckus Wireless ZoneFlex Access Point SNMP Reference Guide* describes the SNMP Management Information Bases (MIBs) that ZoneFlex Access Points support.

SNMP is enabled by default on all ZoneFlex standalone Access Points. For information on how to disable SNMP management and other network management options, refer to the *Ruckus Wireless ZoneFlex Access Point User Guides*, available from the Ruckus Wireless Support website.

NOTE If release notes are shipped with your product and the information there differs from the information in this guide, follow the instructions in the release notes.

Most user guides and release notes are available in Adobe Acrobat Reader Portable Document Format (PDF) or HTML on the Ruckus Wireless Support Web site at

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

For example:

- ZoneFlex Access Point 100.0 SNMP Reference Guide
- Part number: 800-70860-001 Revision A
- Page 12

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Access Point MIB Changes in 100.0

ZoneFlex Release 100.0 contains the following additions/changes to access point MIBs compared to the previous release:

Events

- ruckusEventAPFactoryTrap
- ruckusEventFailAppIconfTrap
- ruckusEventFailDownTrap
- ruckusEventIPChangeTrap
- ruckusEventAPTunDownTrap
- ruckusEventFailUpgradeTrap
- ruckusEventParameterErrTrap
- ruckusEventNoRecongTrap
- ruckusEventFailTakeEffectTrap
- ruckusEventUpgradeSuccTrap
- ruckusEventDownloadSuccTrap
- ruckusEventCongFileTakeEffectTrap
- ruckusEventTunnelUpTrap
- ruckusEventAPSerialNumber
- ruckusEventAPMacAddr
- ruckusEventContent

System

- ruckusSystemFlashFreeSize
- ruckusSystemCPUModel
- ruckusSystemtCPUSpeed
- ruckusSystemtFlashModel
- ruckusSystemtMemModel
- ruckusSystemFlashSize
- ruckusSystemMemSize
- ruckusSystemOSType

Product

- ruckusR300
- ruckusR700
- ruckusR500
- ruckusR600
- ruckusT300
- ruckusT300E
- ruckusT301N
- ruckusT301S
- ruckusZF7761CMWanMacAddr
- ruckusZF7761CMUpstreamChannelsInfo
- ruckusZF7761CMUpstreamChannelI
- ruckusZF7761CMUpstreamChannelII
- ruckusZF7761CMUpstreamChannelIII
- ruckusZF7761CMUpstreamChannelIV
- ruckusZF7761CMDownstreamChannelsInfo
- ruckusZF7761CMDownstreamChannelI
- ruckusZF7761CMDownstreamChannelII
- ruckusZF7761CMDownstreamChannelIII
- ruckusZF7761CMDownstreamChannelIV
- ruckusZF7761CMDownstreamChannelV
- ruckusZF7761CMDownstreamChannelVI
- ruckusZF7761CMDownstreamChannelVII
- ruckusZF7761CMDownstreamChannelVIII

WLAN

- ruckusWLANOption82
- ruckusWLANOption82Subopt1
- ruckusWLANOption82Subopt2
- ruckusWLANOption82Subopt150
- ruckusWLANOption82Subopt151

- ruckusWLANRogueInfo

Radio

- ruckusRadioNoiseFloor

Device

- ruckusDeviceMacAddr
- ruckusDeviceIPAddr

Root

- ruckusCommonGreTunnelModule

Access Point Event MIBs

1

In this chapter:

- Access Point Event MIB Group
- Ruckus AP Event Objects

This section describes ZoneFlex AP events and traps that are triggered when an event occurs, along with possible causes for the event and recommended actions to take (if any). The MIBs described in this section are contained in the *RUCKUS-EVENT-MIB.txt* file.

Access Point Event MIB Group

The ruckusZDEventTraps MIB tree contains events that trigger SNMP traps to be delivered to an SNMP receiver.

ruckusEventAssocTrap

MIB Name
ruckusEventAssocTrap

Events
(tbd)

Severity
minor

OID
1.3.6.1.4.1.25053.2.1.1.1

Status
current

Objects
ruckusEventClientMacAddr

Description
Triggered when there is a client join event. The device's MAC address is enclosed.

Recommended actions
No action required.

ruckusEventDiassocTrap

MIB Name
ruckusEventDiassocTrap

Events
(tbd)

Severity
minor

OID
1.3.6.1.4.1.25053.2.1.1.2

Status
current

Objects
ruckusEventClientMacAddr

Description
Triggered when there is a client disassociation event. The client's MAC address is enclosed.

Recommended actions
No action required.

ruckusEventSetErrorTrap

MIB Name
ruckusEventSetErrorTrap

Events
(tbd)

Severity
major

OID
1.3.6.1.4.1.25053.2.1.1.3

Status
current

Objects
ruckusEventClientMacAddr

Description
Triggered when there is an snmp-set error event. The OID of the snmp-set is enclosed.

Recommended actions
No action required.

ruckusEventConnectTrap

MIB Name
ruckusEventConnectTrap

Events
(tbd)

Severity
minor

OID
1.3.6.1.4.1.25053.2.2.1.4

Status
current

Objects
ruckusEventClientMacAddr

Description
Triggered when there is an AP connect event. The AP's MAC address is enclosed.

Recommended actions
No action required.

ruckusEventDisconnectTrap

MIB Name
ruckusEventDisconnectTrap

Events
(tbd)

Severity
medium

OID
1.3.6.1.4.1.25053.2.1.1.26

Status
current

Objects
ruckusEventClientMacAddr

Description
Triggered when there is an AP disconnect event. The AP's MAC address is enclosed.

Recommended actions
No action required.

ruckusEventAPFactoryTrap

MIB Name
ruckusEventAPFactoryTrap

Events
(tbd)

Severity
medium

OID
1.3.6.1.4.1.25053.2.1.1.30

Status
current

Objects
ruckusEventClientMacAddr

Description
Trigger when the AP is reset. The AP's MAC address is enclosed.

Recommended actions
No action required.

ruckusEventFailApplconfTrap

MIB Name
ruckusEventFailApplconfTrap

Events
(tbd)

Severity
medium

OID
1.3.6.1.4.1.25053.2.1.1.31

Status
current

Objects
ruckusEventClientMacAddr

Description
Trigger when the AP has failed to apply configuration. The AP's MAC address is enclosed.

Recommended actions
No action required.

ruckusEventFailDownTrap

MIB Name
ruckusEventFailDownTrap

Events
(tbd)

Severity
medium

OID
1.3.6.1.4.1.25053.2.1.1.32

Status
current

Objects
ruckusEventClientMacAddr

Description
Trigger when the AP has failed to download configuration.The AP's MAC address is enclosed.

Recommended actions
No action required.

ruckusEventIPChangeTrap

MIB Name
ruckusEventIPChangeTrap

Events
(tbd)

Severity
medium

OID
1.3.6.1.4.1.25053.2.1.1.33

Status
current

Objects
ruckusEventClientMacAddr

Description
Trigger when the AP's IP address has changed. The AP's MAC address is enclosed.

Recommended actions
No action required.

ruckusEventAPTunDownTrap

MIB Name
ruckusEventAPTunDownTrap

Events
(tbd)

Severity
medium

OID
1.3.6.1.4.1.25053.2.1.1.34

Status
current

Objects
ruckusEventClientMacAddr

Description
Trigger when the AP tunnel is down. The AP's MAC address is enclosed.

Recommended actions
No action required.

ruckusEventFailUpgradeTrap

MIB Name
ruckusEventFailUpgradeTrap

Events
(tbd)

Severity
medium

OID
1.3.6.1.4.1.25053.2.1.1.35

Status
current

Objects
ruckusEventClientMacAddr

Description
Trigger when the AP has failed to upgrade. The AP's MAC address is enclosed.

Recommended actions
No action required.

ruckusEventParameterErrTrap

MIB Name
ruckusEventParameterErrTrap

Events
(tbd)

Severity
medium

OID
1.3.6.1.4.1.25053.2.1.1.36

Status
current

Objects
ruckusEventClientMacAddr

Description
Trigger when parameter errors are detected in configuration file. The AP's MAC address is enclosed.

Recommended actions
No action required.

ruckusEventNoRecongTrap

MIB Name
ruckusEventNoRecongTrap

Events
(tbd)

Severity
medium

OID
1.3.6.1.4.1.25053.2.1.1.37

Status
current

Objects
ruckusEventClientMacAddr

Description
Trigger when command is not recognized. The AP's MAC address is enclosed.

Recommended actions
No action required.

ruckusEventFailTakeEffectTrap

MIB Name
ruckusEventFailTakeEffectTrap

Events
(tbd)

Severity
medium

OID
1.3.6.1.4.1.25053.2.1.1.38

Status
current

Objects
ruckusEventClientMacAddr

Description
Trigger when command does not take effect. The AP's MAC address is enclosed.

Recommended actions
No action required.

ruckusEventUpgradeSuccTrap

MIB Name
ruckusEventUpgradeSuccTrap

Events
(tbd)

Severity
medium

OID
1.3.6.1.4.1.25053.2.1.1.39

Status
current

Objects
ruckusEventClientMacAddr

Description
Trigger when the AP upgrades successfully. The AP's MAC address is enclosed.

Recommended actions
No action required.

ruckusEventDownloadSuccTrap

MIB Name
ruckusEventDownloadSuccTrap

Events
(tbd)

Severity
medium

OID
1.3.6.1.4.1.25053.2.1.1.40

Status
current

Objects
ruckusEventClientMacAddr

Description
Trigger when the AP downloads a configuration file successfully. The AP's MAC address is enclosed.

Recommended actions
No action required.

ruckusEventCongFileTakeEffectTrap

MIB Name
ruckusEventCongFileTakeEffectTrap

Events
(tbd)

Severity
medium

OID
1.3.6.1.4.1.25053.2.1.1.41

Status
current

Objects
ruckusEventClientMacAddr

Description
Trigger when a configuration file is applied successfully. The AP's MAC address is enclosed.

Recommended actions
No action required.

ruckusEventTunnelUpTrap

MIB Name
ruckusEventTunnelUpTrap

Events
(tbd)

Severity
medium

OID
1.3.6.1.4.1.25053.2.1.1.42

Status
current

Objects
ruckusEventClientMacAddr

Description
Trigger when GRE tunnel is ready. The AP's MAC address is enclosed.

Recommended actions
No action required.

Ruckus AP Event Objects

The objects in the following section are contained in the ruckusEventObjects tree and are used in traps to specify details for the trap.

ruckusEventClientMacAddr

MIB Name
ruckusEventClientMacAddr

OID
1.3.6.1.4.1.25053.2.1.2.15

Syntax
octet string

Status
current

Max Access
accessible-for-notify

Description
The client's MAC address.

ruckusEventSetErrorOID

MIB Name
ruckusEventSetErrorOID

OID
1.3.6.1.4.1.25053.2.1.2.20

Syntax
octet string

Status
current

Max Access
accessible-for-notify

Description
OID of the error snmp-set.

ruckusEventAPSerialNumber

MIB Name
ruckusEventAPSerialNumber

OID
1.3.6.1.4.1.25053.2.1.2.30

Syntax
octet string

Status
current

Max Access
accessible-for-notify

Description
AP's serial number.

ruckusEventAPMacAddr

MIB Name
ruckusEventAPSerialNumber

OID
1.3.6.1.4.1.25053.2.1.2.31

Syntax
octet string

Status
current

Max Access
accessible-for-notify

Description
AP's MAC address.

ruckusEventContent

MIB Name
ruckusEventAPSerialNumber

OID
1.3.6.1.4.1.25053.2.1.2.32

Syntax
octet string

Status
current

Max Access
accessible-for-notify

Description
Trap contents.

Access Point System MIBs

2

In this chapter:

- Imports
- Groups
- System Info
- System Services

The objects contained in the *RUCKUS-SYSTEM-MIB.txt* MIB file are used to set and get Access Point system configuration values including resource utilization (get) and to factory reset the AP (set).

Imports

```
ruckusCommonSystemModule
FROM RUCKUS-ROOT-MIB
TruthValue,
   DisplayString
      FROM SNMPv2-TC
   OBJECT-GROUP,
   MODULE-COMPLIANCE
      FROM SNMPv2-CONF
   MODULE-IDENTITY,
   OBJECT-TYPE,
   Unsigned32
      FROM SNMPv2-SMI;
```

Groups

ruckusSystemObjects OBJECT IDENTIFIER ::= vruckusSystemMIB 1 }

ruckusSystemInfo OBJECT IDENTIFIER ::= { ruckusSystemObjects 1 }

ruckusSystemServices OBJECT IDENTIFIER ::= { ruckusSystemObjects 2 }

ruckusSystemCommands OBJECT IDENTIFIER ::= { ruckusSystemObjects 3 }

ruckusSystemEvents OBJECT IDENTIFIER ::= { ruckusSystemMIB 2 }

System Info

The ruckusSystemInfo MIB tree contains CPU and memory usage information.

ruckusSystemCPUUtil

SYNTAX
INTEGER

MAX-ACCESS
read-only

STATUS
current

DESCRIPTION
CPU utilization.

OID
ruckusSystemInfo 1

ruckusSystemMemoryUtil

SYNTAX
INTEGER

MAX-ACCESS
read-only

STATUS
current

DESCRIPTION
Memory utilization.

OID
ruckusSystemInfo 2

ruckusSystemFlashFreeSize

SYNTAX
INTEGER

UNITS
KByte

MAX-ACCESS
read-only

STATUS
current

DESCRIPTION
Flash free size in KBytes.

OID
ruckusSystemInfo 3

ruckusSystemCPUModel

SYNTAX
DisplayString

MAX-ACCESS
read-only

STATUS
current

DESCRIPTION
CPU Model

OID
ruckusSystemInfo 4

ruckusSystemtCPUSpeed

SYNTAX
Unsigned32

UNITS
MHz

MAX-ACCESS
read-only

STATUS
current

DESCRIPTION
CPU Speed

OID
ruckusSystemInfo 5

ruckusSystemtFlashModel

SYNTAX
DisplayString

MAX-ACCESS
read-only

STATUS
current

DESCRIPTION
Flash Model

OID
ruckusSystemInfo 6

ruckusSystemtMemModel

SYNTAX
DisplayString

MAX-ACCESS
read-only

STATUS
current

DESCRIPTION
Memory Model

OID
ruckusSystemInfo 7

ruckusSystemFlashSize

SYNTAX
Gauge

UNITS
KBytes

MAX-ACCESS
read-only

STATUS
current

DESCRIPTION
Total flash size in KBytes.

OID
ruckusSystemInfo 9

ruckusSystemMemSize

SYNTAX
Gauge

UNITS
KBytes

MAX-ACCESS
read-only

STATUS
current

DESCRIPTION
Total memory size in Bytes

OID
ruckusSystemInfo 10

ruckusSystemOSType

SYNTAX
DisplayString(SIZE(1..64))

MAX-ACCESS
read-only

STATUS
current

DESCRIPTION
OS Type

OID
ruckusSystemInfo 30

System Services

The ruckusSystemServices MIB tree contains objects used to configure system services such as HTTP, Telnet, SSH, Syslog, etc., and to perform tasks such as reboot the AP, factory reset and renew DHCP.

ruckusSystemHTTPStatus

SYNTAX
TruthValue

MAX-ACCESS
read-write

STATUS
current

DESCRIPTION
Enable/disable HTTP service.

DEFVAL
true

OID
ruckusSystemHTTP 1

ruckusSystemHTTPSStatus

SYNTAX
TruthValue

MAX-ACCESS
read-write

STATUS
current

DESCRIPTION
Enable/disable HTTPS service.

DEFVAL
true

OID
ruckusSystemHTTPS 1

ruckusSystemTelnetStatus

SYNTAX
TruthValue

MAX-ACCESS
read-write

STATUS
current

DESCRIPTION
Enable/disable Telnet service.

DEFVAL
true

OID
ruckusSystemTelnet 1

ruckusSystemSSHStatus

SYNTAX
TruthValue

MAX-ACCESS
read-write

STATUS
current

DESCRIPTION
Enable/disable SSH service."

DEFVAL
true

OID
ruckusSystemSSH 1

ruckusSystemBonjourStatus

SYNTAX
TruthValue

MAX-ACCESS
read-write

STATUS
current

DESCRIPTION
Enable/disable Bonjour service."

DEFVAL
true

OID
ruckusSystemBonjour 1

ruckusSystemSyslogStatus

SYNTAX
TruthValue

MAX-ACCESS
read-write

STATUS
current

DESCRIPTION
Enable/disable Syslog service.

DEFVAL
true

OID
ruckusSystemSyslog 1

ruckusSystemSyslogServerIP

SYNTAX
OCTET STRING (SIZE (2..40))

MAX-ACCESS
read-write

STATUS
current

DESCRIPTION
IP(v4 or v6) of syslog server.

OID
ruckusSystemSyslog 2

ruckusSystemSyslogServerPort

SYNTAX
INTEGER

MAX-ACCESS
read-write

STATUS
current

DESCRIPTION
Port of syslog server.

OID
ruckusSystemSyslog 3

ruckusSystemNTPStatus

SYNTAX
TruthValue

MAX-ACCESS
read-only

STATUS
current

DESCRIPTION
Enable/disable NTP service.

DEFVAL
true

OID
vruckusSystemNTP 1

ruckusSystemNTPGMTTime

SYNTAX
OCTET STRING

MAX-ACCESS
read-only

STATUS
current

DESCRIPTION
GMT time.

OID
ruckusSystemNTP 2

ruckusSystemNTPActiveServer

SYNTAX
OCTET STRING (SIZE (1..128))

MAX-ACCESS
read-write

STATUS
current

DESCRIPTION
Active NTP server.

OID
ruckusSystemNTP 3

ruckusSystemNTPUpdate

SYNTAX
INTEGER

MAX-ACCESS r
read-write

STATUS
current

DESCRIPTION
Update GMT time.

OID
ruckusSystemNTP 4

ruckusSystemFlexMasterURL

SYNTAX
OCTET STRING (SIZE (1..128))

MAX-ACCESS
read-write

STATUS
current

DESCRIPTION
Config FlexMaster server URL. URL start with 'http://' or 'https://'"

OID
ruckusSystemFlexMaster 1

ruckusSystemReboot

SYNTAX
TruthValue

MAX-ACCESS
read-write

STATUS
current

DESCRIPTION
Reboot.

DEFVAL
true

OID
ruckusSystemCommands 1

ruckusSystemSetFactory

SYNTAX
TruthValue

MAX-ACCESS
read-write

STATUS
current

DESCRIPTION
Set factory default.

DEFVAL
true

OID
ruckusSystemCommands 2

ruckusSystemDHCPRenew

SYNTAX
TruthValue

MAX-ACCESS
read-write

STATUS
current

DESCRIPTION
Renew DHCP IP.

DEFVAL
true

OID
ruckusSystemCommands 3

Ruckus Product MIBs

3

In this chapter:

- Imports
- Scalars and Tables
- Wireless Router Products
- Wireless Adapter Products
- Wireless Metro Products
- Wireless Hotzone Products
- Wireless Controller Products

The Ruckus Product MIBs define OIDs for supported Ruckus Wireless products. The Product MIBs are contained in the RUCKUS-PRODUCTS-MIB.txt MIB file.

Imports

ruckusProducts
FROM RUCKUS-ROOT-MIB

ifIndex
FROM IF-MIB

TruthValue,

DisplayString,

MacAddress
FROM SNMPv2-TC

MODULE-IDENTITY
FROM SNMPv2-SMI

RuckusCountryCode
FROM RUCKUS-TC-MIB;

Scalars and Tables

ruckusWirelessRouterProducts OBJECT IDENTIFIER ::= { ruckusProductsMIB 1 }

ruckusWirelessAdapterProducts OBJECT IDENTIFIER ::= { ruckusProductsMIB 2 }

ruckusWirelessMetroProducts OBJECT IDENTIFIER ::= { ruckusProductsMIB 3 }

ruckusWirelessHotzoneProducts OBJECT IDENTIFIER ::= { ruckusProductsMIB 4 }

ruckusWirelessControllerProducts OBJECT IDENTIFIER ::= { ruckusProductsMIB 5 }

Wireless Router Products

-- VF2825 - 802.11b/g AP, 5 Ethernet ports, 8MB Flash, 32MB DRAM
ruckusVF2825 OBJECT IDENTIFIER ::= { ruckusWirelessRouterProducts 1 }

-- VF2811 - 802.11b/g AP, 1 Ethernet port, 8MB Flash, 16MB DRAM
ruckusVF2811 OBJECT IDENTIFIER ::= { ruckusWirelessRouterProducts 2 }

-- VF2821 - 802.11b/g AP, 1 Ethernet port, 8MB Flash, 32MB DRAM
ruckusVF2821 OBJECT IDENTIFIER ::= { ruckusWirelessRouterProducts 3 }

-- VF2835 - 802.11b/g AP, 5 Ethernet ports, 16MB Flash, 32MB DRAM
ruckusVF2835 OBJECT IDENTIFIER ::= { ruckusWirelessRouterProducts 4 }

-- VF7811 - 802.11n AP, 1 Ethernet port, 16MB Flash, 32MB DRAM
ruckusVF7811 OBJECT IDENTIFIER ::= { ruckusWirelessRouterProducts 5 }

Wireless Adapter Products

-- VF2111 - 802.11b/g Adapter, 1 Ethernet port, 8MB Flash, 16MB DRAM
ruckusVF2111 OBJECT IDENTIFIER ::= { ruckusWirelessAdapterProducts 1 }

-- VF2121 - 802.11b/g Adapter, 1 Ethernet port, 8MB Flash, 16MB DRAM
ruckusVF2121 OBJECT IDENTIFIER ::= { ruckusWirelessAdapterProducts 2 }

-- VF7111 - 802.11n Adapter, 1 Ethernet port, 16MB Flash, 32MB DRAM
ruckusVF7111 OBJECT IDENTIFIER ::= { ruckusWirelessAdapterProducts 3 }

Wireless Metro Products

-- MM2225 - 802.11b/g Metro CPE, 5 Ethernet ports, 16MB Flash, 32MB DRAM
ruckusMM2225 OBJECT IDENTIFIER ::= { ruckusWirelessMetroProducts 1 }

-- MM2211 - 802.11b/g Metro CPE, 1 Ethernet port, 16MB Flash, 32MB DRAM
ruckusMM2211 OBJECT IDENTIFIER ::= { ruckusWirelessMetroProducts 2 }

-- MM2221 - 802.11b/g Metro CPE, 1 Ethernet port, 16MB Flash, 32MB DRAM
ruckusMM2221 OBJECT IDENTIFIER ::= { ruckusWirelessMetroProducts 3 }

Wireless Hotzone Products

-- ZF2925 - 802.11b/g AP, 5 Ethernet ports, 8MB Flash, 32MB DRAM
ruckusZF2925 OBJECT IDENTIFIER ::= { ruckusWirelessHotzoneProducts 1 }

-- ZF2942 - 802.11b/g AP, 2 Ethernet ports, 16MB Flash, 32MB DRAM
ruckusZF2942 OBJECT IDENTIFIER ::= { ruckusWirelessHotzoneProducts 2 }

-- ZF7942 - 802.11n AP, 2 Ethernet ports, 16MB Flash, 64MB DRAM
ruckusZF7942 OBJECT IDENTIFIER ::= { ruckusWirelessHotzoneProducts 3 }

-- ZF7962 - 802.11n Dual-Band AP, 2 Ethernet ports, 16B Flash, 64MB DRAM
ruckusZF7962 OBJECT IDENTIFIER ::= { ruckusWirelessHotzoneProducts 4 }

-- ZF2741 - 802.11b/g AP, 1 Ethernet ports, 16MB Flash, 32MB DRAM
ruckusZF2741 OBJECT IDENTIFIER ::= { ruckusWirelessHotzoneProducts 5 }

-- ZF7762 - 802.11n Dual-Band Outdoor AP, 2 Ethernet ports, 16MB Flash, 32MB DRAM
ruckusZF7762 OBJECT IDENTIFIER ::= { ruckusWirelessHotzoneProducts 6 }

-- ZF7762-S -
ruckusZF7762S OBJECT IDENTIFIER ::= { ruckusWirelessHotzoneProducts 8 }

-- ZF7762-T -
ruckusZF7762T OBJECT IDENTIFIER ::= { ruckusWirelessHotzoneProducts 9 }

-- ZF7762-N -
ruckusZF7762N OBJECT IDENTIFIER ::= { ruckusWirelessHotzoneProducts 10 }

-- ZF7343 -
ruckusZF7343 OBJECT IDENTIFIER ::= { ruckusWirelessHotzoneProducts 12 }

```
-- ZF7363 -
ruckusZF7363 OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 13 }

-- ZF7341 -
ruckusZF7341 OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 14 }

-- ZF7211 -
--ruckusZF7211 OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 15 }

-- ZF7731 -
ruckusZF7731 OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 16 }

-- ZF7025 -
ruckusZF7025 OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 20 }

-- ZF7321 -
ruckusZF7321 OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 22 }

-- ZF7321-U -
ruckusZF7321U OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 23 }

-- ZF2741-EXT -
ruckusZF2741EXT OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts
24 }

-- ZF7982 -
ruckusZF7982 OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 25 }

-- ZF7782 -
ruckusZF7782 OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 28 }
```

```
-- ZF7782-S -
ruckusZF7782S OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 29 }

-- ZF7782-N -
ruckusZF7782N OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 30 }

-- ZF7782-E -
ruckusZF7782E OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 31 }

-- ZF8800-s-ac -
ruckusZF8800SAC OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts
32 }

-- ZF7762-AC -
ruckusZF7762AC OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 35 }

-- ZF7762-S-AC -
ruckusZF7762SAC OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts
36 }

-- ZF7762-T-AC -
ruckusZF7762TAC OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts
37 }

-- ZF7372 -
ruckusZF7372 OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 40 }

-- ZF7372-E -
ruckusZF7372E OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 41 }

-- ZF7352 -
ruckusZF7352 OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 45 }
```

```
-- ZF7351 -
ruckusZF7351 OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 48 }

-- ZF7742 -
ruckusZF7742 OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 50 }

-- ZF7055 -
ruckusZF7055 OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 52 }

-- ZF7781-M -
ruckusZF7781M OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 55 }

-- ZF7781CM -
ruckusZF7781CM OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts
56 }

-- ZF7781CM-E -
ruckusZF7781CME OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts
57 }

-- ZF7781CM-S -
ruckusZF7781CMS OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts
58 }

-- ZF7781-FN -
ruckusZF7781FN OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 60 }

-- ZF7781-FN-E -
ruckusZF7781FNE OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts
61 }
```

```
-- ZF7781-FN-S -
ruckusZF7781FNS OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts
62 }

-- SC8800-S-AC -
ruckusSC8800SAC OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts
65 }

-- SC8800-S -
ruckusSC8800S OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 66 }

-- R300 -
ruckusR300 OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 67 }

-- R700 -
ruckusR700 OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 68 }

-- R500 -
ruckusR500 OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 71 }

-- R600 -
ruckusR600 OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 72 }

-- T300 -
ruckusT300 OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 74 }

-- T300E -
ruckusT300E OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 75 }

-- T301N -
ruckusT301N OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 76 }
```

```
-- T301S -
ruckusT301S OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 77 }

-- ZF7761CM - 802.11n Dual-Band Outdoor AP with CableModem, 2 Ethernet
ports, 16MB Flash, 32MB DRAM
ruckusZF7761CM OBJECT IDENTIFIER  ::= { ruckusWirelessHotzoneProducts 7 }

ruckusZF7761CMControlLED OBJECT-TYPE
  SYNTAX  INTEGER {
       ledPerCM(1),
       ledPerAP(2),
       ledAlternateMode1Mode2OneHour(3),
       ledAlternateMode1Mode2Mode6(4),
       blueActive(5),
       blueActiveCMOnlineLed(6),
       ledAllOff(7),
       heartbeatOffCM(8),
       heartbeatOffAP(9),
       softResetAP(10),
       powerCycleAP(11),
       factoryResetAP(12),
       softResetCM(13),
       powerCycleCM(14),
       factoryResetCM(15) }
   MAX-ACCESS read-write
   STATUS current
   DESCRIPTION
      "ledPerCM(1):                LEDs enabled per Cable Modem definition,
       ledPerAP(2):                LEDs configured per Access Point definition,
       ledAlternateMode1Mode2OneHour(3): Alternalte between modes 1 and 2 at
a 30 second period then disabled after one hour,
```

ledAlternateMode1Mode2Mode6(4): Alternalte between modes 1 and 2 at a 30 second period and then go to mode 6

blueActive(5): Blue Active Surge Protection Indicator,

blueActiveCMOnlineLed(6): Blue Active Surge Protection Indicator and Cable Modem online Green LED enabled,

ledAllOff(7): All LEDs disabled,

heartbeatOffCM(8): Disable Cable Modem heartbeat monitoring,

heartbeatOffAP(9): Disable Access Point heartbeat monitoring,

softResetAP(10): Soft reset of Access Point,

powerCycleAP(11): Power cycle Access Point,

factoryResetAP(12): Reset Access Point to factory defaults,

softResetCM(13): Soft reset of Cable Modem,

powerCycleCM(14): Power cycle Cable Modem,

factoryResetCM(15): Reset Cable Modem to factory defaults"

```
    DEFVAL { ledPerCM }
    ::= { ruckusZF7761CM 3 }

ruckusZF7761CMWanIPAddr OBJECT-TYPE
    SYNTAX  IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the IP address of the Cable Modem WAN interface."
    ::= { ruckusZF7761CM 4 }

ruckusZF7761CMCustomization OBJECT IDENTIFIER        ::=
{ ruckusZF7761CM 5 }

ruckusZF7761CMHTTPService OBJECT-TYPE
    SYNTAX  TruthValue
    MAX-ACCESS read-write
    STATUS current
```

```
    DESCRIPTION
        "Enable/disable HTTP service."
    DEFVAL { false }
    ::= { ruckusZF7761CMCustomization 1 }

ruckusZF7761CMTelnetService OBJECT-TYPE
    SYNTAX  TruthValue
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Enable/disable Telnet service."
    DEFVAL { false }
    ::= { ruckusZF7761CMCustomization 2 }

ruckusZF7761CMSSHService OBJECT-TYPE
    SYNTAX  TruthValue
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Enable/disable SSH service."
    DEFVAL { true }
    ::= { ruckusZF7761CMCustomization 3 }

ruckusZF7761CMUsername OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (1..64))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies username of cable modem. "
    ::= { ruckusZF7761CMCustomization 4 }
```

```
ruckusZF7761CMPassword OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (1..64))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies password of cable modem. "
    ::= { ruckusZF7761CMCustomization 5 }

ruckusZF7761CMLEDMode OBJECT-TYPE
    SYNTAX  INTEGER {
        ledAllOff(0),
        blueActive(1),
        blueActiveCMOnlineLed(2) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "ledAllOff(0):            All LEDs disabled after 3 second delay,
        blueActive(1):            Blue Active Surge Protection Indicator,
        blueActiveCMOnlineLed(2):   Blue Active Surge Protection Indicator and
Cable Modem online Green LED enabled"
    ::= { ruckusZF7761CM 6 }

ruckusZF7761CMHeartbeatMonitorCM OBJECT-TYPE
    SYNTAX  TruthValue
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Enable/disable Cable Modem heartbeat monitoring."

    ::= { ruckusZF7761CM 7 }

ruckusZF7761CMHeartbeatMonitorAP OBJECT-TYPE
```

```
    SYNTAX  TruthValue
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Enable/disable Access Point heartbeat monitoring."    ::=
{ ruckusZF7761CM 8 }

ruckusZF7761CMWanMacAddr OBJECT-TYPE
                        SYNTAX  MacAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
                        "Specifies the mac address of the Cable Modem WAN
interface."
    ::= { ruckusZF7761CM 9 }

ruckusZF7761CMUpstreamChannelsInfo OBJECT IDENTIFIER ::= {ruck-
usZF7761CM 10}

ruckusZF7761CMUpstreamChannelI OBJECT-TYPE
                        SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
                        "Upstream Channel 1"
    ::= { ruckusZF7761CMUpstreamChannelsInfo 1 }

ruckusZF7761CMUpstreamChannelII OBJECT-TYPE
                        SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
```

```
                    "Upstream Channel 2"
    ::= { ruckusZF7761CMUpstreamChannelsInfo 2 }

ruckusZF7761CMUpstreamChannelIII OBJECT-TYPE
                    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
                    "Upstream Channel 3"
    ::= { ruckusZF7761CMUpstreamChannelsInfo 3 }

ruckusZF7761CMUpstreamChannelIV OBJECT-TYPE
                    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
                    "Upstream Channel 4"
    ::= { ruckusZF7761CMUpstreamChannelsInfo 4 }

ruckusZF7761CMDownstreamChannelsInfo OBJECT IDENTIFIER ::= {ruck-
usZF7761CM 11}

ruckusZF7761CMDownstreamChannelI OBJECT-TYPE
                    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
                    "Down Channel 1"
    ::= { ruckusZF7761CMDownstreamChannelsInfo 1 }

ruckusZF7761CMDownstreamChannelII OBJECT-TYPE
                    SYNTAX  DisplayString
```

```
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
                        "Down Channel 1"
    ::= { ruckusZF7761CMDownstreamChannelsInfo 2 }

ruckusZF7761CMDownstreamChannelIII OBJECT-TYPE
                        SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
                        "Down Channel 1"
    ::= { ruckusZF7761CMDownstreamChannelsInfo 3 }

ruckusZF7761CMDownstreamChannelIV OBJECT-TYPE
                        SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
                        "Down Channel 1"
    ::= { ruckusZF7761CMDownstreamChannelsInfo 4 }

ruckusZF7761CMDownstreamChannelV OBJECT-TYPE
                        SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
                        "Down Channel 1"
    ::= { ruckusZF7761CMDownstreamChannelsInfo 5 }

ruckusZF7761CMDownstreamChannelVI OBJECT-TYPE
```

```
                    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
                    "Down Channel 1"
    ::= { ruckusZF7761CMDownstreamChannelsInfo 6 }

ruckusZF7761CMDownstreamChannelVII OBJECT-TYPE
                    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
                    "Down Channel 1"
    ::= { ruckusZF7761CMDownstreamChannelsInfo 7 }

ruckusZF7761CMDownstreamChannelVIII OBJECT-TYPE
                    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
                    "Down Channel 1"
    ::= { ruckusZF7761CMDownstreamChannelsInfo 8 }
```

Wireless Controller Products

```
-- ZD1000 - Access Controller, 2 Ethernet ports, 32MB Flash, 64MB DRAM
ruckusZD1000 OBJECT IDENTIFIER  ::= { ruckusWirelessControllerProducts 1 }

-- ZD1100 - Access Controller, 2 Ethernet ports
ruckusZD1100 OBJECT IDENTIFIER  ::= { ruckusWirelessControllerProducts 2 }

-- ZD3000 - Access Controller, 2 Ethernet ports, 2048MB Flash, 1024MB DRAM
ruckusZD3000 OBJECT IDENTIFIER  ::= { ruckusWirelessControllerProducts 3 }

-- ZD5000 - Access Controller,
ruckusZD5000 OBJECT IDENTIFIER  ::= { ruckusWirelessControllerProducts 8 }

-- ZD6000 - Access Controller,
--ruckusZD6000 OBJECT IDENTIFIER  ::= { ruckusWirelessControllerProducts 9 }

ruckusZD1000SystemName OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "System name"
    ::= { ruckusZD1000 1 }

ruckusZD1000SystemIPAddr OBJECT-TYPE
    SYNTAX  IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "IP Address"
    ::= { ruckusZD1000 2 }
```

```
ruckusZD1000SystemMacAddr OBJECT-TYPE
    SYNTAX  MacAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "MAC Address"
    ::= { ruckusZD1000 3 }

ruckusZD1000SystemUptime OBJECT-TYPE
    SYNTAX  TimeTicks
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Up time"
    ::= { ruckusZD1000 4 }

ruckusZD1000SystemModel OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Model"
    ::= { ruckusZD1000 5 }

ruckusZD1000SystemLicensedAPs OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Licensed APs"
```

```
    ::= { ruckusZD1000 6 }

ruckusZD1000SystemSerialNumber OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Serial number"
    ::= { ruckusZD1000 7 }

ruckusZD1000SystemVersion OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Software version"
    ::= { ruckusZD1000 8 }

ruckusZD1000CountryCode OBJECT-TYPE
    SYNTAX  RuckusCountryCode
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Country code"
    ::= { ruckusZD1000 9 }

ruckusZD1100SystemName OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
```

```
        "System name"
    ::= { ruckusZD1100 1 }

ruckusZD1100SystemIPAddr OBJECT-TYPE
    SYNTAX  IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "IP Address"
    ::= { ruckusZD1100 2 }

ruckusZD1100SystemMacAddr OBJECT-TYPE
    SYNTAX  MacAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "MAC Address"
    ::= { ruckusZD1100 3 }

ruckusZD1100SystemUptime OBJECT-TYPE
    SYNTAX  TimeTicks
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Up time"
    ::= { ruckusZD1100 4 }

ruckusZD1100SystemModel OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
```

```
    DESCRIPTION
        "Model"
    ::= { ruckusZD1100 5 }

ruckusZD1100SystemLicensedAPs OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Licensed APs"
    ::= { ruckusZD1100 6 }

ruckusZD1100SystemSerialNumber OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Serial number"
    ::= { ruckusZD1100 7 }

ruckusZD1100SystemVersion OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Software version"
    ::= { ruckusZD1100 8 }

ruckusZD1100CountryCode OBJECT-TYPE
    SYNTAX  RuckusCountryCode
    MAX-ACCESS read-only
```

```
    STATUS current
    DESCRIPTION
        "Country code"
    ::= { ruckusZD1100 9 }

ruckusZD3000SystemName OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "System name"
    ::= { ruckusZD3000 1 }

ruckusZD3000SystemIPAddr OBJECT-TYPE
    SYNTAX  IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "IP Address"
    ::= { ruckusZD3000 2 }

ruckusZD3000SystemMacAddr OBJECT-TYPE
    SYNTAX  MacAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "MAC Address"
    ::= { ruckusZD3000 3 }

ruckusZD3000SystemUptime OBJECT-TYPE
    SYNTAX  TimeTicks
```

```
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Up time"
    ::= { ruckusZD3000 4 }

ruckusZD3000SystemModel OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Model"
    ::= { ruckusZD3000 5 }

ruckusZD3000SystemLicensedAPs OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Licensed APs"
    ::= { ruckusZD3000 6 }

ruckusZD3000SystemSerialNumber OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Serial number"
    ::= { ruckusZD3000 7 }

ruckusZD3000SystemVersion OBJECT-TYPE
```

```
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Software version"
    ::= { ruckusZD3000 8 }

ruckusZD3000CountryCode OBJECT-TYPE
    SYNTAX  RuckusCountryCode
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Country code"
    ::= { ruckusZD3000 9 }

ruckusZD5000SystemName OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "System name"
    ::= { ruckusZD5000 1 }

ruckusZD5000SystemIPAddr OBJECT-TYPE
    SYNTAX  IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "IP Address"
    ::= { ruckusZD5000 2 }
```

```
ruckusZD5000SystemMacAddr OBJECT-TYPE
    SYNTAX  MacAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "MAC Address"
    ::= { ruckusZD5000 3 }

ruckusZD5000SystemUptime OBJECT-TYPE
    SYNTAX  TimeTicks
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Up time"
    ::= { ruckusZD5000 4 }

ruckusZD5000SystemModel OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Model"
    ::= { ruckusZD5000 5 }

ruckusZD5000SystemLicensedAPs OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Licensed APs"
    ::= { ruckusZD5000 6 }
```

```
ruckusZD5000SystemSerialNumber OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Serial number"
    ::= { ruckusZD5000 7 }

ruckusZD5000SystemVersion OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Software version"
    ::= { ruckusZD5000 8 }

ruckusZD5000CountryCode OBJECT-TYPE
    SYNTAX  RuckusCountryCode
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Country code"
    ::= { ruckusZD5000 9 }
```

Access Point WLAN MIBs

4

In this chapter:

- Imports
- Groups
- WLAN Table
- WLAN Supported Transmit Rates
- WLAN Supported Receive Rates
- WLAN Station Statistics-Hardware
- WLAN Station Information
- WLAN Station MQ Statistics
- WLAN Station Statistics-Ruckus
- WLAN Rogue Info Group
- WLAN Security Information Group
- WLAN Stats Table

The objects contained in the *RUCKUS-WLAN-MIB.txt* file are used to set or get WLAN configuration settings such as WLAN name, ESSID, encryption settings and transmission statistics.

Imports

```
ruckusCommonWLANModule
    FROM RUCKUS-ROOT-MIB
RuckusAdminStatus,
RuckusRadioMode,
RuckusSSID,
RuckusWEPKey,
RuckusdB,
RuckusWPAPassPhrase
    FROM RUCKUS-TC-MIB
DisplayString,
MacAddress,
RowStatus,
TruthValue
    FROM SNMPv2-TC
OBJECT-GROUP
    FROM SNMPv2-CONF
ifIndex,
InterfaceIndex,
IpAddress
    FROM IF-MIB
MODULE-IDENTITY,
OBJECT-TYPE,
Counter32,
Integer32,
Unsigned32
    FROM SNMPv2-SMI;
```

Groups

ruckusWLANObjects OBJECT IDENTIFIER ::= { ruckusWLANMIB 1 }

ruckusWLANInfo OBJECT IDENTIFIER ::= { ruckusWLANObjects 1 }

ruckusWLANStaInfo OBJECT IDENTIFIER ::= { ruckusWLANObjects 2 }

ruckusWLANSecurityInfo OBJECT IDENTIFIER ::= { ruckusWLANObjects 3 }

-- ruckusWLANStatsInfo OBJECT IDENTIFIER ::= { ruckusWLANObjects 4 }

ruckusWLANEvents OBJECT IDENTIFIER ::= { ruckusWLANMIB 2 }

WLAN Table

The WLAN table provides options for modifying an existing WLAN; WLAN creation is performed via the ruckusWLANRadioTable.

```
ruckusWLANTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusWLANEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "WLAN table."
    ::= { ruckusWLANInfo 1 }

ruckusWLANEntry OBJECT-TYPE
    SYNTAX  RuckusWLANEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each WLAN entry."
    INDEX {
        ifIndex }
    ::= { ruckusWLANTable 1 }

RuckusWLANEntry ::= SEQUENCE {
    ruckusWLANIfIndex       Unsigned32,
    ruckusWLANSSID                  RuckusSSID,
    ruckusWLANBSSID                 MacAddress,
    ruckusWLANBSSType               INTEGER,
    -- ruckusWLANOperationalRateSet     OCTET STRING(SIZE(1..255)),
    ruckusWLANOperationalRateSet     OCTET STRING,
    ruckusWLANBeaconPeriod          INTEGER,
    ruckusWLANDTIMPeriod            INTEGER,
    ruckusWLANRTSThreshold          INTEGER,
```

```
    ruckusWLANFragmentationThreshold INTEGER,
    ruckusWLANRadioMode              RuckusRadioMode,
    ruckusWLANChannel                INTEGER,
    ruckusWLANWDSEnable              TruthValue,
    ruckusWLANAdminStatus            INTEGER,
    ruckusWLANProtectionMode         INTEGER,
    ruckusWLANName                   DisplayString,
    ruckusWLANSSIDBcastDisable       TruthValue,
    ruckusWLANVlanID                 INTEGER,
    ruckusWLANIGMPSnooping           INTEGER,
    ruckusWLANOption82               INTEGER,
    ruckusWLANOption82Subopt1        INTEGER,
    ruckusWLANOption82Subopt2        INTEGER,
    ruckusWLANOption82Subopt150      INTEGER,
    ruckusWLANOption82Subopt151      INTEGER
    }

ruckusWLANIfIndex OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Interface index."
    ::= { ruckusWLANEntry 200 }

ruckusWLANSSID OBJECT-TYPE
    SYNTAX  RuckusSSID
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies the name of the SSID."
```

```
    ::= { ruckusWLANEntry 1 }

ruckusWLANBSSID OBJECT-TYPE
    SYNTAX  MacAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "This attribute is the unique identifier in this BSS.
        It is the 48-bit MAC address of the wireless interface."
    ::= { ruckusWLANEntry 2 }

ruckusWLANBSSType OBJECT-TYPE
    SYNTAX  INTEGER {
            station(1),
            master(2),
            independent(3) }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the bss type."
    ::= { ruckusWLANEntry 3 }

ruckusWLANOperationalRateSet OBJECT-TYPE
    SYNTAX  OCTET STRING(SIZE(1..255))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "This attribute shall specify the set of data rates
        at which the station may transmit data.  Each octet
        contains a value representing a rate.  Each rate
        shall be within the range from 2 to 127,
```

```
        corresponding to data rates in increments of
        500 kb/s from 1 Mb/s to 63.5 Mb/s, and shall be
        supported (as indicated in the supported rates
        table) for receiving data. This value is reported in
        transmitted Beacon, Probe Request, Probe Response,
        Association Request, Association Response,
        Reassociation Request, and Reassociation Response
        frames, and is used to determine whether a BSS
        with which the station desires to synchronize is
        suitable. It is also used when starting a BSS,
        as specified in  10.3."
    ::= { ruckusWLANEntry 4 }

ruckusWLANBeaconPeriod OBJECT-TYPE
    SYNTAX  INTEGER (100..1000)
    UNITS
        "milli seconds"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "This attribute shall specify the number of milli seconds that a
        station shall use for scheduling Beacon transmissions.
        This value is transmitted in Beacon and Probe Response
        frames."
    ::= { ruckusWLANEntry 5 }

ruckusWLANDTIMPeriod OBJECT-TYPE
    SYNTAX  INTEGER (1..255)
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
```

```
        "This attribute shall specify the number of TU that a
        station shall use for scheduling Beacon transmissions.
        This value is transmitted in Beacon and Probe Response
        frames."
    ::= { ruckusWLANEntry 6 }

ruckusWLANRTSThreshold OBJECT-TYPE
    SYNTAX  INTEGER (1..65535)
    MAX-ACCESS read-write
        STATUS current
    DESCRIPTION
        "This attribute shall indicate the number of octets in an
        MPDU, below which an RTS/CTS handshake shall not be
        performed, except as RTS/CTS is used as a cross modulation
        protection mechanism as defined in 9.10. An RTS/CTS
        handshake shall be performed at the beginning of any frame
        exchange sequence where the MPDU is of type Data or
        Management, the MPDU has an individual address in the
        Address1 field, and the length of the MPDU is greater than
        this threshold. (For additional details, refer to Table 21
        in 9.7.) Setting this attribute to be larger than the
        maximum MSDU size shall have the effect of turning off the
        RTS/CTS handshake for frames of Data or Management type
        transmitted by this STA. Setting this attribute to zero
        shall have the effect of turning on the RTS/CTS handshake
        for all frames of Data or Management type transmitted by
        this STA. The default value of this attribute shall be
        2347."
    ::= { ruckusWLANEntry 7 }

ruckusWLANFragmentationThreshold OBJECT-TYPE
```

```
    SYNTAX  INTEGER (256..2346)
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "This attribute shall specify the current maximum size, in
        octets, of the MPDU that may be delivered to the PHY.
        An MSDU shall be broken into fragments if its size exceeds
        the value of this attribute after adding MAC headers and trailers.
        An MSDU or MMPDU shall be fragmented when the resulting
        frame has an individual address in the Address1 field,
        and the length of the frame is larger than this threshold.
        The default value for this attribute shall be the lesser of
        2346 or the aMPDUMaxLength of the attached PHY and
        shall never exceed the lesser of 2346 or the
        aMPDUMaxLength of the attached PHY. The value of this
        attribute shall never be less than 256."
    ::= { ruckusWLANEntry 8 }

ruckusWLANRadioMode OBJECT-TYPE
    SYNTAX  RuckusRadioMode
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the radio mode. "
    ::= { ruckusWLANEntry 9 }

ruckusWLANChannel OBJECT-TYPE
    SYNTAX  INTEGER (1..14)
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
```

```
        "Specifies the current operating channel."
    ::= { ruckusWLANEntry 10 }

ruckusWLANWDSEnable OBJECT-TYPE
    SYNTAX  TruthValue
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies if the WDS is enabled or disabled on this interface.
        Allow 4 address mode of operation for an given WLAN interface."
    DEFVAL { false }
    ::= { ruckusWLANEntry 11 }

ruckusWLANAdminStatus OBJECT-TYPE
    SYNTAX  INTEGER {
            up(1),
            down(2) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Administrative status of the WLAN interface."
    ::= { ruckusWLANEntry 12 }

ruckusWLANProtectionMode OBJECT-TYPE
    SYNTAX  INTEGER {
            none(1),
            ctsOnly(2),
            ctsRts(3) }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
```

```
        "Enabled when 11g and 11b clients exist on the same network.
        none:
        Do not use any protection

        ctsOnly:
        AP will send a CTS frame prior to sending 11g frames.
        The CTS frame will silence 11b clients

        rtsCts:
        Require RTS to be sent by sender of 11g frame and responder
        to send CTS prior to any 11g frames being sent."
    ::= { ruckusWLANEntry 13 }

ruckusWLANName OBJECT-TYPE
    SYNTAX  OCTET STRING(SIZE(1..16))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies the name of the wlan."
    ::= { ruckusWLANEntry 14 }

ruckusWLANSSIDBcastDisable OBJECT-TYPE
    SYNTAX  TruthValue
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Setting to 1, cause  the ssid will not be broadcast in the beacons."
    DEFVAL { false }
        ::= { ruckusWLANEntry 15 }

ruckusWLANVlanID OBJECT-TYPE
```

```
    SYNTAX  INTEGER (1..4094)
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies the VLAN ID of the WLAN.  If VLAN ID is 1, packets from this WLAN
will be untagged."
    ::= { ruckusWLANEntry 16 }

ruckusWLANIGMPSnooping OBJECT-TYPE
    SYNTAX  INTEGER {
          enable(1),
          disable(2)}
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Configure the IGMPSnooping for this WLAN. "
    ::= { ruckusWLANEntry 25 }

ruckusWLANOption82 OBJECT-TYPE
    SYNTAX INTEGER {disabled(0), enabled(1)}
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Enabled/Disabled option82"
    ::= { ruckusWLANEntry 50 }

ruckusWLANOption82Subopt1 OBJECT-TYPE
    SYNTAX INTEGER {IF-Name_VLAN-ID_ESSID_AP-Model_AP-Name_AP-
MAC(1),
                            AP-MAC-hex(2),
                            AP-MAC-hex-ESSID(3),
                            ESSID(4)}
```

```
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Subopt-1 with format:
         1: IF-Name:VLAN-ID:ESSID:AP-Model:AP-Name:AP-MAC;
         2: AP-MAC-hex;
         3: AP-MAC-hex ESSID;
         4: ESSID."
    ::= { ruckusWLANEntry 51 }

ruckusWLANOption82Subopt2 OBJECT-TYPE
    SYNTAX INTEGER {Client-MAC-hex(1),
                    Client-MAC-hex_ESSID(2),
                    AP-MAC-hex(3),
                    AP-MAC-hex_ESSID(4),
                    AP-MAC(5)}
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Subopt-2 with format:
         1: Client-MAC-hex;
         2: Client-MAC-hex ESSID;
         3: AP-MAC-hex;
         4: AP-MAC-hex ESSID;
         5: AP-MAC."
    ::= { ruckusWLANEntry 52 }

ruckusWLANOption82Subopt150 OBJECT-TYPE
    SYNTAX INTEGER {disabled(0), enabled(1)}
    MAX-ACCESS read-write
    STATUS current
```

```
    DESCRIPTION
        "Subopt-150 with VLAN-ID."
    ::= { ruckusWLANEntry 53 }

ruckusWLANOption82Subopt151 OBJECT-TYPE
    SYNTAX INTEGER {Area-Name(1), ESSID(2)}
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Subopt-151 with format:
         1: Area-Name;
         2: ESSID."
    ::= { ruckusWLANEntry 54 }
```

WLAN Supported Transmit Rates

```
ruckusWLANSuppDataRatesTxTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusWLANSuppDataRatesTxEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "The Transmit bit rates supported by the PLCP and PMD,
        represented by a count from X'02-X'7f, corresponding to data
        rates in increments of 500Kb/s from 1 Mb/s to 63.5 Mb/s subject
        to limitations of each individual PHY."
    ::= { ruckusWLANInfo 2 }

ruckusWLANSuppDataRatesTxEntry OBJECT-TYPE
    SYNTAX  RuckusWLANSuppDataRatesTxEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "An Entry (conceptual row) in the dot11SupportedDataRatesTx
        Table."
    INDEX {
        ifIndex,
        ruckusWLANSuppDataRatesTxIndex }
    ::= { ruckusWLANSuppDataRatesTxTable 1 }

RuckusWLANSuppDataRatesTxEntry ::= SEQUENCE {

    ruckusWLANSuppDataRatesTxIndex Integer32,
    ruckusWLANSuppDataRatesTxValue DisplayStrin }

ruckusWLANSuppDataRatesTxIndex OBJECT-TYPE
    SYNTAX  Integer32
```

```
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Index object that identifies which data rate to access."
    ::= { ruckusWLANSuppDataRatesTxEntry 1 }

ruckusWLANSuppDataRatesTxValue OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The Transmit bit rates supported by the PLCP and PMD,
        represented by a count from X'02-X'7f, corresponding to data
        rates in increments of 500Kb/s from 1 Mb/s to 63.5 Mb/s subject
        to limitations of each individual PHY"
    ::= { ruckusWLANSuppDataRatesTxEntry 2 }
```

WLAN Supported Receive Rates

```
ruckusWLANSuppDataRatesRxTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusWLANSuppDataRatesRxEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "The receive bit rates supported by the PLCP and PMD,
        represented by a count from X'02-X'7f, corresponding to data
        rates in increments of 500Kb/s from 1 Mb/s to 63.5 Mb/s.'"
    ::= { ruckusWLANInfo 3 }

ruckusWLANSuppDataRatesRxEntry OBJECT-TYPE
    SYNTAX  RuckusWLANSuppDataRatesRxEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "An Entry (conceptual row) in the
        dot11SupportedDataRatesRx Table."
    INDEX {
        ifIndex,
        ruckusWLANSuppDataRatesRxIndex }
    ::= { ruckusWLANSuppDataRatesRxTable 1 }

RuckusWLANSuppDataRatesRxEntry ::= SEQUENCE {

    ruckusWLANSuppDataRatesRxIndex Integer32,
    ruckusWLANSuppDataRatesRxValue DisplayString }

ruckusWLANSuppDataRatesRxIndex OBJECT-TYPE
    SYNTAX  Integer32
    MAX-ACCESS not-accessible
```

```
    STATUS current
    DESCRIPTION
        "Index object which identifies which data rate to access."
    ::= { ruckusWLANSuppDataRatesRxEntry 1 }

ruckusWLANSuppDataRatesRxValue OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The receive bit rates supported by the PLCP and PMD,
        represented by a count from X'02-X'7f, corresponding to data
        rates in increments of 500Kb/s from 1 Mb/s to 63.5 Mb/s."
    ::= { ruckusWLANSuppDataRatesRxEntry 2 }
```

WLAN Station Statistics-Hardware

```
ruckusWLANStaStatsTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusWLANStaStatsEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "WLAN counter table."
    ::= { ruckusWLANStaInfo 1 }

ruckusWLANStaStatsEntry OBJECT-TYPE
    SYNTAX  RuckusWLANStaStatsEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each wlan counter entry."
    INDEX {
        ifIndex,
        ruckusWLANStaStatsMacAddr }
    ::= { ruckusWLANStaStatsTable 1 }

RuckusWLANStaStatsEntry ::= SEQUENCE {

    ruckusWLANStaStatsMacAddr          MacAddress,
    ruckusWLANStaStatsSSID             RuckusSSID,
    ruckusWLANStaStatsRxDataFrames     Counter32,
    ruckusWLANStaStatsRxMgmtFrames     Counter32,
    ruckusWLANStaStatsRxCtrlFrames     Counter32,
    ruckusWLANStaStatsRxUnicastFrames  Counter32,
    ruckusWLANStaStatsRxMulticastFrames Counter32,
    ruckusWLANStaStatsRxBytes          Counter32,
    ruckusWLANStaStatsRxDup            Counter32,
```

```
    ruckusWLANStaStatsRxNoPrivacy       Counter32,
    ruckusWLANStaStatsRxWEPFail         Counter32,
    ruckusWLANStaStatsRxDemicFail       Counter32,
    ruckusWLANStaStatsTxDecap           Counter32,
    ruckusWLANStaStatsRxDefrag          Counter32,
    ruckusWLANStaStatsTxDataFrames      Counter32,
    ruckusWLANStaStatsTxMgmtFrames      Counter32,
    ruckusWLANStaStatsTxUnicastFrames   Counter32,
    ruckusWLANStaStatsTxMulticastFrames Counter32,
    ruckusWLANStaStatsTxBytes           Counter32,
    ruckusWLANStaStatsTxAssoc           Counter32,
    ruckusWLANStaStatsTxAssocFail       Counter32,
       ruckusWLANStaStatsTxAuth         Counter32,
    ruckusWLANStaStatsTxAuthFail        Counter32,
    ruckusWLANStaStatsRSSI              Counter32,
    ruckusWLANStaStatsTxRxBytes         Counter32,
    ruckusWLANStaStatsTxRate            Unsigned32,
    ruckusWLANStaStatsRxRate            Unsigned32,
    ruckusWLANStaStatsTxDropRate        Unsigned32
  }

ruckusWLANStaStatsMacAddr OBJECT-TYPE
    SYNTAX  MacAddress
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
       "Specifies the station mac address."
    ::= { ruckusWLANStaStatsEntry 1 }

ruckusWLANStaStatsSSID OBJECT-TYPE
    SYNTAX  RuckusSSID
```

```
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "station SSID."
    ::= { ruckusWLANStaStatsEntry 2 }

ruckusWLANStaStatsRxDataFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx data frames."
    ::= { ruckusWLANStaStatsEntry 3 }

ruckusWLANStaStatsRxMgmtFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx management frames."
    ::= { ruckusWLANStaStatsEntry 4 }

ruckusWLANStaStatsRxCtrlFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx control frames."
    ::= { ruckusWLANStaStatsEntry 5 }

ruckusWLANStaStatsRxUnicastFrames OBJECT-TYPE
```

```
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx unicast frames."
    ::= { ruckusWLANStaStatsEntry 6 }

ruckusWLANStaStatsRxMulticastFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx multicast frames."
    ::= { ruckusWLANStaStatsEntry 7 }

ruckusWLANStaStatsRxBytes OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx data count (bytes)."
    ::= { ruckusWLANStaStatsEntry 8 }

ruckusWLANStaStatsRxDup OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx discarded because of duplicate."
    ::= { ruckusWLANStaStatsEntry 9 }
```

```
ruckusWLANStaStatsRxNoPrivacy OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx with WEP but privacy off."
    ::= { ruckusWLANStaStatsEntry 10 }

ruckusWLANStaStatsRxWEPFail OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx WEP processing failed."
    ::= { ruckusWLANStaStatsEntry 11 }

ruckusWLANStaStatsRxDemicFail OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx demic failed."
    ::= { ruckusWLANStaStatsEntry 12 }

ruckusWLANStaStatsTxDecap OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx decapsulation failed."
    ::= { ruckusWLANStaStatsEntry 13 }
```

```
ruckusWLANStaStatsRxDefrag OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx defragmentation failed."
    ::= { ruckusWLANStaStatsEntry 14 }

ruckusWLANStaStatsTxDataFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Tx data frames."
    ::= { ruckusWLANStaStatsEntry 15 }

ruckusWLANStaStatsTxMgmtFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Tx management frames."
    ::= { ruckusWLANStaStatsEntry 16 }

ruckusWLANStaStatsTxUnicastFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Tx unicast frames."
```

```
    ::= { ruckusWLANStaStatsEntry 17 }

ruckusWLANStaStatsTxMulticastFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Tx multicast frames."
    ::= { ruckusWLANStaStatsEntry 18 }

ruckusWLANStaStatsTxBytes OBJECT-TYPE
    SYNTAX  Counter32
        MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Tx data count (bytes)."
    ::= { ruckusWLANStaStatsEntry 19 }

ruckusWLANStaStatsTxAssoc OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Tx (re)associations."
    ::= { ruckusWLANStaStatsEntry 20 }

ruckusWLANStaStatsTxAssocFail OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
```

```
        "Tx (re)association failures"
    ::= { ruckusWLANStaStatsEntry 21 }

ruckusWLANStaStatsTxAuth OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Tx (re)authentications."
    ::= { ruckusWLANStaStatsEntry 22 }

ruckusWLANStaStatsTxAuthFail OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Tx (re)authentication failures."
    ::= { { ruckusWLANStaStatsEntry 23 }

ruckusWLANStaStatsRSSI OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Station RSSI."
    ::= { ruckusWLANStaStatsEntry 24 }

ruckusWLANStaStatsTxRxBytes OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
```

```
    DESCRIPTION
        "Total Tx and Rx data bytes  of last 5 min period."
    ::= { ruckusWLANStaStatsEntry 25 }

ruckusWLANStaStatsTxRate OBJECT-TYPE
    SYNTAX  Unsigned32
    UNITS
        "Bps"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Tx data rate  of last 5 min period."
    ::= { ruckusWLANStaStatsEntry 2 }

ruckusWLANStaStatsRxRate OBJECT-TYPE
    SYNTAX  Unsigned32
    UNITS
        "Bps"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx data rate  of last 5 min period."
    ::= { ruckusWLANStaStatsEntry 27 }

ruckusWLANStaStatsTxDropRate OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Tx Packet drop rate."
    ::= { ruckusWLANStaStatsEntry 28 }
```

WLAN Station Information

```
ruckusWLANStaTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusWLANStaEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "WLAN station table."
    ::= { ruckusWLANStaInfo 2 }

ruckusWLANStaEntry OBJECT-TYPE
    SYNTAX  RuckusWLANStaEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each station entry."
    INDEX {
        ifIndex,
        ruckusWLANStaAddr }
    ::= { ruckusWLANStaTable 1 }

RuckusWLANStaEntry ::= SEQUENCE {

    ruckusWLANStaAddr    MacAddress,
    ruckusWLANStaRssi    Unsigned32,
    ruckusWLANStaErp     Unsigned32,
    ruckusWLANState      Unsigned32,
    ruckusWLANStaCapInfo Unsigned32,
    ruckusWLANStaAssocid Unsigned32,
    ruckusWLANStaOpMode  Unsigned32,
    ruckusWLANStaIdle    Unsigned32,
    ruckusWLANStaRates   OCTET STRING,
```

```
    ruckusWLANStaIpaddr     OCTET STRING,
    ruckusWLANStaAuthMode   OCTET STRING }

ruckusWLANStaAddr OBJECT-TYPE
    SYNTAX  MacAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "An index into the table. Specifies each station address."
    ::= { ruckusWLANStaEntry 1 }

ruckusWLANStaRssi OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
        DESCRIPTION
        "Station RSSI."
    ::= { ruckusWLANStaEntry 2 }

ruckusWLANStaErp OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Station ERP."
    ::= { ruckusWLANStaEntry 3 }

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

```
    DESCRIPTION
        "Specifies station state."
    ::= { ruckusWLANStaEntry 4 }

ruckusWLANStaCapInfo OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies station capability information."
    ::= { ruckusWLANStaEntry 5 }

ruckusWLANStaAssocid OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the station association id."
    ::= { ruckusWLANStaEntry 6 }

ruckusWLANStaOpMode OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies station operational mode."
    ::= { ruckusWLANStaEntry 7 }

ruckusWLANStaIdle OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
```

```
    STATUS current
    DESCRIPTION
        "Specifies station idle time."
    ::= { ruckusWLANStaEntry 8 }

ruckusWLANStaRates OBJECT-TYPE
    SYNTAX  OCTET STRING (SIZE (1..127))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies station rates."
    ::= { ruckusWLANStaEntry 9 }

ruckusWLANStaIpaddr OBJECT-TYPE
    SYNTAX  OCTET STRING  (SIZE (2..40))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies Station IPv4 or IPv6 address."
    ::= { ruckusWLANStaEntry 16 }

ruckusWLANStaAuthMode OBJECT-TYPE
    SYNTAX   OCTET STRING
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Station Authentication Mode."
    ::= { ruckusWLANStaEntry 20 }
```

WLAN Station MQ Statistics

```
ruckusWLANStaMQTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusWLANStaMQEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifes ruckusWLANMQStatTable."
    ::= { ruckusWLANStaInfo 3 }

ruckusWLANStaMQEntry OBJECT-TYPE
    SYNTAX  RuckusWLANStaMQEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each ruckusWLANMQStatEntry."
    INDEX {
        ifIndex,
        ruckusWLANStaMQAddr,
        ruckusWLANStaMQQIndex }
    ::= { ruckusWLANStaMQTable 1 }

RuckusWLANStaMQEntry ::= SEQUENCE {

    ruckusWLANStaMQAddr             MacAddress,
    ruckusWLANStaMQQIndex           Integer32,
    ruckusWLANStaMQPktsQueued       Unsigned32,
    ruckusWLANStaMQNumEnqueued      Unsigned32,
    ruckusWLANStaMQNumDequeued      Unsigned32,
    ruckusWLANStaMQNumRequeued      Unsigned32,
    ruckusWLANStaMQNumDropped       Unsigned32,
    ruckusWLANStaMQNumDeactivateQueue Unsigned32,
```

```
    ruckusWLANStaMQAvelpg           Unsigned32,
    ruckusWLANStaMQMinlpg           Unsigned32,
    ruckusWLANStaMQMaxlpg           Unsigned32,
    ruckusWLANStaMQAveTxLatency     Unsigned32,
    ruckusWLANStaMQMinTxLatency     Unsigned32,
    ruckusWLANStaMQMaxTxLatency     Unsigned32 }

ruckusWLANStaMQAddr OBJECT-TYPE
    SYNTAX  MacAddress
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Station address."
        ::= { ruckusWLANStaMQEntry 1 }

ruckusWLANStaMQQIndex OBJECT-TYPE
        SYNTAX  Integer32 (1..4)
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Media queue index."
    ::= { ruckusWLANStaMQEntry 2 }

ruckusWLANStaMQPktsQueued OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Frames currently queued."
    ::= { ruckusWLANStaMQEntry 3 }
```

```
ruckusWLANStaMQNumEnqueued OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Total number of frames queued."
        ::= { ruckusWLANStaMQEntry 4 }

ruckusWLANStaMQNumDequeued OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Total number of dequeued frames."
    ::= { ruckusWLANStaMQEntry 5 }

ruckusWLANStaMQNumRequeued OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Total number of requeued frames."
    ::= { ruckusWLANStaMQEntry 6v

ruckusWLANStaMQNumDropped OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Drops due to queue overflow."
    ::= { ruckusWLANStaMQEntry 7 }
```

```
ruckusWLANStaMQNumDeactivateQueue OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Total number of times queue deactivated."
    ::= { { ruckusWLANStaMQEntry 8 }

ruckusWLANStaMQAveIpg OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Average inter packet arrival time."
    ::= { ruckusWLANStaMQEntry 9 }

ruckusWLANStaMQMinIpg OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Current max. inter packet arrival."
    ::= { ruckusWLANStaMQEntry 10 }

ruckusWLANStaMQMaxIpg OBJECT-TYPE
        SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Current min. inter packet arrival."
```

```
    ::= { ruckusWLANStaMQEntry 11 }

ruckusWLANStaMQAveTxLatency OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Average time to transmit frames from queue."
    ::= { ruckusWLANStaMQEntry 12 }

ruckusWLANStaMQMinTxLatency OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Minimum time to transmit frames from queue."
    ::= { ruckusWLANStaMQEntry 13 }

ruckusWLANStaMQMaxTxLatency OBJECT-TYPE
    SYNTAX  Unsigned32
        MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Maximum time to transmit frames from queue."
    ::= { ruckusWLANStaMQEntry 14 }
```

WLAN Station Statistics-Ruckus

```
ruckusWLANStaRksTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusWLANStaRksEntry
    MAX-ACCESS not-accessible
    STATUS current
        DESCRIPTION
        "Specifies ruckusWLANStaRksTable."
        ::= { ruckusWLANStaInfo 4 }

ruckusWLANStaRksEntry OBJECT-TYPE
    SYNTAX  RuckusWLANStaRksEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each ruckusWLANStaRksEntry."
    INDEX {
        ifIndex,
        ruckusWLANStaRksAddr }
    ::= { ruckusWLANStaRksTable 1 }

RuckusWLANStaRksEntry ::= SEQUENCE {

    ruckusWLANStaRksAddr              MacAddress,
    ruckusWLANStaRksRxGoodFrames      Unsigned32,
    ruckusWLANStaRksRxCrcErrors       Unsigned32,
    ruckusWLANStaRksTxGoodFrames      Unsigned32,
    ruckusWLANStaRksTxRetries         Unsigned32,
    ruckusWLANStaRksTxDiscardExRetries Unsigned32,
    ruckusWLANStaRksTxRate            Unsigned32,
    ruckusWLANStaRksTxKbps            Unsigned32,
    ruckusWLANStaRksTxPer             Unsigned32,
```

```
    ruckusWLANStaRksTxRssi          RuckusdB  }

ruckusWLANStaRksAddr OBJECT-TYPE
    SYNTAX  MacAddress
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION ""
    ::= { ruckusWLANStaRksEntry  }

ruckusWLANStaRksRxGoodFrames OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "number of rx frames without errors."
    ::= { ruckusWLANStaRksEntry 2 }

ruckusWLANStaRksRxCrcErrors OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of rx frames with CRks errors."
    ::= { ruckusWLANStaRksEntry 3 }

ruckusWLANStaRksTxGoodFrames OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of good tx frames acked."
```

```
    ::= { ruckusWLANStaRksEntry 4 }

ruckusWLANStaRksTxRetries OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of retried frames."
    ::= { ruckusWLANStaRksEntry 5 }

ruckusWLANStaRksTxDiscardExRetries OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of discarded frames due to excessive retries."
    ::= { ruckusWLANStaRksEntry 6 }

ruckusWLANStaRksTxRate OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Current Phy Rate."
    ::= { { ruckusWLANStaRksEntry 7 }

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

```
        "Current transmit throughput."
    ::= { ruckusWLANStaRksEntry 8 }

ruckusWLANStaRksTxPer OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Current Packet error rate."
    ::= { ruckusWLANStaRksEntry 9 }

ruckusWLANStaRksTxRssi OBJECT-TYPE
    SYNTAX  RuckusdB
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rssi for ack'ed packets."
            ::= { ruckusWLANStaRksEntry 10 }
```

WLAN Rogue Info Group

```
--*****************************************************************************
--* ruckusWLANRogueInfo
--*****************************************************************************
ruckusWLANRogueTable OBJECT-TYPE
    SYNTAX SEQUENCE OF RuckusWLANRogueEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "WLAN rogue device table."
    ::= { ruckusWLANStaInfo 5 }

ruckusWLANRogueEntry OBJECT-TYPE
    SYNTAX RuckusWLANRogueEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each WLAN rogue device entry."
    INDEX { ruckusWLANRogueIndex  }
    ::= { ruckusWLANRogueTable 1 }

RuckusWLANRogueEntry ::= SEQUENCE {
  ruckusWLANRogueSSID               RuckusSSID,
  ruckusWLANRogueMacAddrOCTET STRING,
  ruckusWLANRogueRadioType           INTEGER,
  ruckusWLANRogueChannel            Unsigned32,
  ruckusWLANRogueRSSI               Integer32,
  ruckusWLANRogueType               INTEGER,
  ruckusWLANRogueEncrypted           INTEGER,
  ruckusWLANRogueSNR                Integer32,
  ruckusWLANRogueSignalStrength      Integer32
```

```
}

ruckusWLANRogueSSID OBJECT-TYPE
    SYNTAX  RuckusSSID
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "SSID."
    ::= { ruckusWLANRogueEntry 1 }

ruckusWLANRogueMacAddr OBJECT-TYPE
    SYNTAX  OCTET STRING
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rogue device's MAC Address."
    ::= { ruckusWLANRogueEntry 2 }

ruckusWLANRogueRadioType OBJECT-TYPE
    SYNTAX  INTEGER  { radio11bg (0), radio11a (1), radio11ng(2), radio11na(3) }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Radio type."
    ::= { ruckusWLANRogueEntry 3 }

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

```
        "Radio channel."
    ::= { ruckusWLANRogueEntry 4 }

ruckusWLANRogueRSSI OBJECT-TYPE
    SYNTAX  Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "RSSI."
    ::= { ruckusWLANRogueEntry 5 }

ruckusWLANRogueType OBJECT-TYPE
    SYNTAX  INTEGER  { ap (0), ad-hoc (1) }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The type of the rogue device."
    ::= { ruckusWLANRogueEntry 6 }

ruckusWLANRogueEncrypted OBJECT-TYPE
    SYNTAX  INTEGER  { open (0), encrypted (1) }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Encryption mode."
    ::= { ruckusWLANRogueEntry 7 }

ruckusWLANRogueSNR OBJECT-TYPE
    SYNTAX  Integer32
    MAX-ACCESS read-only
    STATUS current
```

```
    DESCRIPTION
        "Signal to Noise Ratio"
    ::= { ruckusWLANRogueEntry 8 }

ruckusWLANRogueSignalStrength OBJECT-TYPE
    SYNTAX  Integer32
    UNITS
        "dBm"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Signal strength"
    ::= { ruckusWLANRogueEntry 9 }
```

WLAN Security Information Group

The WLAN Security Information Group contains WLAN security settings which are dependent on the ruckusWLANSecurityTable expansion relationship table.

```
ruckusWLANSecurityTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusWLANSecurityEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies WLAN security settings."
    ::= { ruckusWLANSecurityInfo 1 }

ruckusWLANSecurityEntry OBJECT-TYPE
    SYNTAX  RuckusWLANSecurityEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each WLAN security entry."
    INDEX {
        ifIndex }
    ::= { ruckusWLANSecurityTable 1 }

RuckusWLANSecurityEntry ::= SEQUENCE {
    ruckusWLANSecurityMode              INTEGER,
    ruckusWLANSecurityAuthMode          INTEGER,
    ruckusWLANSecurityEncryMode         INTEGER
 }

ruckusWLANSecurityMode OBJECT-TYPE
    SYNTAX  INTEGER {
          none(1),
          wep(2),
```

```
            wpa(3) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies the security mode.
         if wep, table ruckusWLANWEPTable should be configured firstly;
         if wpa + 'psk' auth,table ruckusWLANWPATable should be configured firstly;
         if wpa + 'eap-802-1x' or 'auto' auth,firstly configure
ruckusWLANAAAServerTable,then configure ruckusWLANWPATable."
    DEFVAL { none }
    ::= { ruckusWLANSecurityEntry 5 }

ruckusWLANSecurityAuthMode OBJECT-TYPE
    SYNTAX  INTEGER {
            open(1),
            wep-shared(2),
            auto(3),
            wpa-eap-802-1x(4) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies the security mode.
         if wep, only open;
         if wpa, open,wpa-eap-802-1x,auto ; for auto,is open,wpa-eap-802-1x"
    DEFVAL { open }
    ::= { ruckusWLANSecurityEntry 8 }

ruckusWLANSecurityEncryMode OBJECT-TYPE
    SYNTAX  INTEGER {
            none(1),
            tkip(2),
            aes(3),
```

```
            auto(4) }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
            "Specifies the security mode.
             if none, for wep/none;
             if tkip, for wpa ver1;
             if aes,  for wpa ver2;
             if auto, for wpa(ver2);"
        DEFVAL { none }
        ::= { ruckusWLANSecurityEntry 10 }

    ruckusWLANWEPTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF RuckusWLANWEPEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
            "Specifies WLAN WEP settings."
        ::= { ruckusWLANSecurityInfo 2 }

    ruckusWLANWEPEntry OBJECT-TYPE
        SYNTAX  RuckusWLANWEPEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
            "Specifies each WLAN WEP entry."
        INDEX {
            ifIndex }
        ::= { ruckusWLANWEPTable 1 }

    RuckusWLANWEPEntry ::= SEQUENCE {
```

```
    ruckusWLANWEPEncryLenType          INTEGER,
    ruckusWLANWEPKeyIndex              INTEGER,
    ruckusWLANWEPKey                   DisplayString
 }

ruckusWLANWEPEncryLenType OBJECT-TYPE
    SYNTAX  INTEGER {
          bit-64(1),
          bit-128(2) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
       "Specifies the WEP encryption len type."
    DEFVAL { bit-128 }
    ::= { ruckusWLANWEPEntry 6 }

ruckusWLANWEPKeyIndex OBJECT-TYPE
    SYNTAX  INTEGER (1..4)
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
       "Specifies the WEP key index.
       For WEP,if one wlan has already used '1',
       so other wlans cannot use '1' again."
    ::= { ruckusWLANWEPEntry 8 }

ruckusWLANWEPKey OBJECT-TYPE
    SYNTAX  DisplayString (SIZE(3..32))
    MAX-ACCESS read-write
    STATUS current
```

```
    DESCRIPTION
        "Specifies the WEP key.
        if ascII text,the length is 5 or 13,
        if Hexadecimal,the length is 10 or 26"
    ::= { ruckusWLANWEPEntry 9 }

ruckusWLANWPATable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusWLANWPAEntry
    MAX-ACCESS not-accessible
    STATUS current
        DESCRIPTION
        "Specifies WLAN WPA settings."
    ::= { ruckusWLANSecurityInfo 3 }

ruckusWLANWPAEntry OBJECT-TYPE
    SYNTAX  RuckusWLANWPAEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each WLAN WPA entry."
    INDEX {
        ifIndex }
    ::= { ruckusWLANWPATable 1 }

RuckusWLANWPAEntry ::= SEQUENCE {

    ruckusWLANWPAVersion            INTEGER,
    ruckusWLANWPAKey            DisplayString,
    ruckusWLANWPARadiusNasId            DisplayString,
    ruckusWLANWPAReAuthenticationPeriod            INTEGER
 }
```

```
ruckusWLANWPAVersion OBJECT-TYPE
    SYNTAX  INTEGER {
          wpa(1),
          wpa2(2),
          auto(3) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
       "Specifies the WPA version."
    DEFVAL { wpa }
    ::= { ruckusWLANWPAEntry 5 }

ruckusWLANWPAKey OBJECT-TYPE
    SYNTAX  DisplayString (SIZE(8..63))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
       "Specifies the WPA key."
    ::= { ruckusWLANWPAEntry 12 }

ruckusWLANWPARadiusNasId OBJECT-TYPE
    SYNTAX  DisplayString (SIZE(1..64))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
       "Specifies the WPA radius nas id(only for auth type is EAP_802.1x)."
    ::= { ruckusWLANWPAEntry 15 }

ruckusWLANWPAReAuthenticationPeriod OBJECT-TYPE
    SYNTAX  INTEGER (30..3600)
```

```
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies the WPA radius reauthenticate period ,unit: second (only for auth
type is EAP_802.1x)."
    DEFVAL { 600 }
    ::= { ruckusWLANWPAEntry 20 }

ruckusWLANAAAServerTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusWLANAAAServerEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies WLAN AAA server settings."
    ::= { ruckusWLANSecurityInfo 4 }

ruckusWLANAAAServerEntry OBJECT-TYPE
    SYNTAX  RuckusWLANAAAServerEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each WLAN AAA server entry."
    INDEX {
        ifIndex,
        ruckusWLANSeverMode
 }
    ::= { ruckusWLANAAAServerTable 1 }

RuckusWLANAAAServerEntry ::= SEQUENCE {
    ruckusWLANSeverMode                INTEGER,
    ruckusWLANServerIpAddress          OCTET STRING,
    ruckusWLANServerPort               INTEGER,
```

```
    ruckusWLANServerSecret              OCTET STRING
 }

ruckusWLANSeverMode OBJECT-TYPE
    SYNTAX  INTEGER {
          auth(1),
          account(2) }
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
       "Specifies the AAA server mode:1,authenticate server;2,account server."
    ::= { ruckusWLANAAAServerEntry  }

ruckusWLANServerIpAddress OBJECT-TYPE
    SYNTAX  OCTET STRING  (SIZE (2..40))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
       "Specifies the AAA server ip(v4 and v6) address."
    DEFVAL {0}
    ::= { ruckusWLANAAAServerEntry 10 }

ruckusWLANServerPort OBJECT-TYPE
    SYNTAX  INTEGER
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
       "Specifies the AAA server port."
    DEFVAL {1812}
    ::= { ruckusWLANAAAServerEntry 12 }
```

```
ruckusWLANServerSecret OBJECT-TYPE
    SYNTAX  OCTET STRING(SIZE(1..64))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies the AAA server access secret."
    ::= { ruckusWLANAAAServerEntry 15 }
```

WLAN Stats Table

The objects in the RuckusWLANStatsEntry table contain WLAN statistics information.

```
    SYNTAX  SEQUENCE OF RuckusWLANStatsEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "WLAN statistics table"
    ::= { ruckusWLANInfo 4 }

ruckusWLANStatsEntry OBJECT-TYPE
    SYNTAX  RuckusWLANStatsEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each WLAN statictics entry."
    INDEX {
        ifIndex }
    ::= { ruckusWLANStatsTable 1 }

RuckusWLANStatsEntry ::= SEQUENCE {
    ruckusWLANStatsSSID              RuckusSSID,
    ruckusWLANStatsBSSID             MacAddress,
    ruckusWLANStatsNumSta            Counter32,
    ruckusWLANStatsNumAuthSta        Counter32,
    ruckusWLANStatsNumAuthReq        Counter32,
    ruckusWLANStatsNumAuthResp       Counter32,
    ruckusWLANStatsNumAuthSuccess    Counter32,
    ruckusWLANStatsNumAuthFail       Counter32,
    ruckusWLANStatsNumAssocReq       Counter32,
    ruckusWLANStatsNumAssocResp      Counter32,
```

```
    ruckusWLANStatsNumReAssocReq        Counter32,
    ruckusWLANStatsNumReAssocResp       Counter32,
    ruckusWLANStatsNumAssocSuccess      Counter32,
    ruckusWLANStatsNumAssocFail         Counter32,
    ruckusWLANStatsAssocFailRate        Unsigned32,
    ruckusWLANStatsAuthFailRate         Unsigned32,
    ruckusWLANStatsAssocSuccessRate     Unsigned32,
    ruckusWLANStatsRxDataFrames         Counter32,
    ruckusWLANStatsRxMgmtFrames         Counter32,
    ruckusWLANStatsRxCtrlFrames         Counter32,
    ruckusWLANStatsRxUnicastFrames      Counter32,
    ruckusWLANStatsRxMulticastFrames    Counter32,
    ruckusWLANStatsRxBroadcastFrames    Counter32,
    ruckusWLANStatsRxBytes              Counter32,
    ruckusWLANStatsRxDup                Counter32,
    ruckusWLANStatsRxNoPrivacy          Counter32,
    ruckusWLANStatsRxWEPFail            Counter32,
--  ruckusWLANStatsRxDemicFail          Counter32,
--  ruckusWLANStatsRxDecap              Counter32,
--  ruckusWLANStatsRxDefrag             Counter32,
--  ruckusWLANStatsRxCRCError           Counter32,
    ruckusWLANStatsRxDecryptCRCError    Counter32,
    ruckusWLANStatsRxMICError           Counter32,
    ruckusWLANStatsRxDrops              Counter32,
    ruckusWLANStatsRxErrors             Counter32,
    ruckusWLANStatsRxFrames             Counter32,
    ruckusWLANStatsRxDropRate           Unsigned32,
    ruckusWLANStatsTxDataFrames         Counter32,
    ruckusWLANStatsTxMgmtFrames         Counter32,
    ruckusWLANStatsTxUnicastFrames      Counter32,
    ruckusWLANStatsTxMulticastFrames    Counter32,
```

```
    ruckusWLANStatsTxBroadcastFrames    Counter32,
    ruckusWLANStatsTxBytes              Counter32,
    ruckusWLANStatsTxDrops              Counter32,
    ruckusWLANStatsTxErrors             Counter32,
    ruckusWLANStatsTxFrames             Counter32,
    ruckusWLANStatsPeriodRxErrorRate    Unsigned32,
    ruckusWLANStatsPeriodTxErrorRate    Unsigned32,
    ruckusWLANStatsPeriodAssocReq       Counter32,
    ruckusWLANStatsPeriodAssocResp      Counter32,
    ruckusWLANStatsPeriodAssocSuccess   Counter32,
    ruckusWLANStatsTotalAssocTime       TimeTicks
  }

ruckusWLANStatsSSID OBJECT-TYPE
    SYNTAX  RuckusSSID
        MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "station SSID."
    ::= { ruckusWLANStatsEntry 1 }

ruckusWLANStatsBSSID OBJECT-TYPE
    SYNTAX  MacAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Wlan BSSID."
    ::= { ruckusWLANStatsEntry 2 }

ruckusWLANStatsNumSta OBJECT-TYPE
    SYNTAX  Counter32
```

```
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of associated stations."
    ::= { ruckusWLANStatsEntry 3 }

ruckusWLANStatsNumAuthSta OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of authenticated stations."
    ::= { ruckusWLANStatsEntry 4 }

ruckusWLANStatsNumAuthReq OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of authentication requests."
    ::= { ruckusWLANStatsEntry 5 }

ruckusWLANStatsNumAuthResp OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of authentication responses."
    ::= { ruckusWLANStatsEntry 6 }

ruckusWLANStatsNumAuthSuccess OBJECT-TYPE
```

```
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of successful authentications."
    ::= { ruckusWLANStatsEntry 7 }

ruckusWLANStatsNumAuthFail OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of authentication failures."
        ::= { ruckusWLANStatsEntry 8 }

ruckusWLANStatsNumAssocReq OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of association requests."
    ::= { ruckusWLANStatsEntry 9 }

ruckusWLANStatsNumAssocResp OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of association responses."
    ::= { ruckusWLANStatsEntry 10 }
```

```
ruckusWLANStatsNumReAssocReq OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of reassociation requests."
    ::= { ruckusWLANStatsEntry 11 }

ruckusWLANStatsNumReAssocResp OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of reassociation responses."
    ::= { ruckusWLANStatsEntry 12 }

ruckusWLANStatsNumAssocSuccess OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of successful associations."
    ::= { ruckusWLANStatsEntry 13 }

ruckusWLANStatsNumAssocFail OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of association failures."
    ::= { ruckusWLANStatsEntry 14 }
```

```
ruckusWLANStatsAssocFailRate OBJECT-TYPE
    SYNTAX  Unsigned32
    UNITS
        "percentage"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Station association fail rate. ruckusWLANStatsNumAssocFail/ruckusWLAN-
StatsNumAssocReq"
    ::= { ruckusWLANStatsEntry 15 }

ruckusWLANStatsAuthFailRate  OBJECT-TYPE
    SYNTAX  Unsigned32
    UNITS
        "percentage"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Station authentication fail rate. ruckusWLANStatsNumAuthFail/ruck-
usWLANStatsNumAuthReq"
    ::= { ruckusWLANStatsEntry 16 }

ruckusWLANStatsAssocSuccessRate OBJECT-TYPE
    SYNTAX  Unsigned32
    UNITS
        "percentage"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Station association success rate. ruckusWLANStatsNumAssocSuccess/
ruckusWLANStatsNumAssocReq"
```

```
    ::= { ruckusWLANStatsEntry 17 }

ruckusWLANStatsRxDataFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received data frames."
    ::= { ruckusWLANStatsEntry 18 }

ruckusWLANStatsRxMgmtFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received management frames."
    ::= { ruckusWLANStatsEntry 19 }

ruckusWLANStatsRxCtrlFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received contrl frames."
    ::= { ruckusWLANStatsEntry 20 }


ruckusWLANStatsRxUnicastFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
```

```
    DESCRIPTION
        "Count of received unicast frames."
    ::= { ruckusWLANStatsEntry 21 }

ruckusWLANStatsRxMulticastFrames  OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received multicast frames."
    ::= { ruckusWLANStatsEntry 22 }

ruckusWLANStatsRxBroadcastFrames  OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received broadcast frames."
    ::= { ruckusWLANStatsEntry 23 }

ruckusWLANStatsRxBytes OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received bytes."
    ::= { ruckusWLANStatsEntry 24 }

ruckusWLANStatsRxDup OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
```

```
    STATUS current
    DESCRIPTION
        "Count of received duplicated frames."
    ::= { ruckusWLANStatsEntry 2 }

ruckusWLANStatsRxNoPrivacy OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received frames without privacy bit enabled."
    ::= { ruckusWLANStatsEntry 26 }

ruckusWLANStatsRxWEPFail OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received failured WEP frames."
    ::= { ruckusWLANStatsEntry 27 }

ruckusWLANStatsRxDecryptCRCError OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received frames with decrypted CRC error."
    ::= { ruckusWLANStatsEntry 28 }

ruckusWLANStatsRxMICError OBJECT-TYPE
    SYNTAX  Counter32
```

```
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received frames with MIC error."
    ::= { ruckusWLANStatsEntry 29 }

ruckusWLANStatsRxDrops OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received frame drops."
    ::= { ruckusWLANStatsEntry 30 }

ruckusWLANStatsRxErrors OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received error frames."
    ::= { ruckusWLANStatsEntry 31 }

ruckusWLANStatsRxFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received frames."
    ::= { ruckusWLANStatsEntry 32 }

ruckusWLANStatsRxDropRate OBJECT-TYPE
```

```
    SYNTAX  Unsigned32
    UNITS
        "percentage"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Received frame drop rate. ruckusWLANStatsRxDrops/ruckusWLANStatsRx-
Frames"
    ::= { ruckusWLANStatsEntry 33 }

ruckusWLANStatsTxDataFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of transmitted data frames."
    ::= { ruckusWLANStatsEntry 34 }

ruckusWLANStatsTxMgmtFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of transmitted management frames."
    ::= { ruckusWLANStatsEntry 35 }

ruckusWLANStatsTxUnicastFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of transmitted unicast frames."
```

```
    ::= { ruckusWLANStatsEntry 36 }

ruckusWLANStatsTxMulticastFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of transmitted multicast frames."
    ::= { ruckusWLANStatsEntry 37 }

ruckusWLANStatsTxBroadcastFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of transmitted broadcast frames."
    ::= { ruckusWLANStatsEntry 38 }

ruckusWLANStatsTxBytes OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of transmitted bytes."
    ::= { ruckusWLANStatsEntry 39 }

ruckusWLANStatsTxDrops OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
```

```
        "Count of transmitted frame drops."
    ::= { ruckusWLANStatsEntry 40 }

ruckusWLANStatsTxErrors OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of transmitted error frames."
    ::= { ruckusWLANStatsEntry 41 }

ruckusWLANStatsTxFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of total transmitted frames."
    ::= { ruckusWLANStatsEntry 42 }

ruckusWLANStatsPeriodRxErrorRate OBJECT-TYPE
    SYNTAX  Unsigned32
    UNITS
        "percentage"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "RX packet error rate.
        ruckusWLANStatsRxErrors/ruckusWLANStatsRxFrames of last 5 min period
        "
    ::= { ruckusWLANStatsEntry 43 }
```

```
ruckusWLANStatsPeriodTxErrorRate OBJECT-TYPE
    SYNTAX  Unsigned32
    UNITS
        "percentage"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "TX packet error rate.
        ruckusWLANStatsTxErrors/ruckusWLANStatsTxFrames of last 5 min period"
    ::= { ruckusWLANStatsEntry 44 }

ruckusWLANStatsPeriodAssocReq OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of association requests of last 5 min period."
    ::= { ruckusWLANStatsEntry 45 }

ruckusWLANStatsPeriodAssocResp OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of association responses of last 5 min period."
    ::= { ruckusWLANStatsEntry 46 }

ruckusWLANStatsPeriodAssocSuccess OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
```

```
    DESCRIPTION
        "Number of successful associations of last 5 min period."
    ::= { ruckusWLANStatsEntry 47 }

ruckusWLANStatsTotalAssocTime OBJECT-TYPE
    SYNTAX  TimeTicks
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "WLAN Stats client total association time"
    ::= { ruckusWLANStatsEntry 49 }
```

Access Point Radio Configuration MIBs

5

In this chapter:

- Imports
- Groups
- Radio Table
- Radio Stats Table

The objects contained in the *RUCKUS-RADIO-MIB.txt* file provide Access Point radio configuration options including transmit power, channel settings, transmission statistics, etc.

Imports

```
ruckusCommonRadioModule
    FROM RUCKUS-ROOT-MIB
RuckusRadioMode,
RuckusCountryCode,
RuckusRate
    FROM RUCKUS-TC-MIB
ifIndex,
InterfaceIndex
    FROM IF-MIB
MODULE-IDENTITY,
OBJECT-TYPE,
Integer32
    FROM SNMPv2-SMI;
```

Groups

```
ruckusRadioObjects OBJECT IDENTIFIER     ::= { ruckusRadioMIB 1 }

ruckusRadioInfo OBJECT IDENTIFIER    ::= { ruckusRadioObjects 1 }

ruckusRadioNumber OBJECT-TYPE
    SYNTAX  INTEGER
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of radios present on this system."
    ::= { ruckusRadioInfo 1 }
```

Radio Table

```
ruckusRadioTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusRadioEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Radio table."
    ::= { ruckusRadioInfo 2 }

ruckusRadioEntry OBJECT-TYPE
    SYNTAX  RuckusRadioEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each Radio entry."
    INDEX {
        ifIndex }
    ::= { ruckusRadioTable 1 }

RuckusRadioEntry ::= SEQUENCE {
    ruckusRadioIndex    InterfaceIndex,
    ruckusRadioMode             INTEGER,
    ruckusRadioCountry          RuckusCountryCode,
    ruckusRadioBSSType          INTEGER,
    ruckusRadioChannel          INTEGER,
    ruckusRadioDataRate         OCTET STRING,
    ruckusRadioTxPower          INTEGER,
    ruckusRadioProtectionMode   INTEGER,
    ruckusRadioNoiseFloor   INTEGER
}
```

```
ruckusRadioMode OBJECT-TYPE
    SYNTAX  INTEGER {
          auto(0),
          ieee802dot11g-only(1),
          ieee802dot11b-only(2),
          ieee802dot11ng(3),
          ieee802dot11na(4),
          ieee802dot11a-only(5)}
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
       "Specifies the radio mode."
    ::= { ruckusRadioEntry 1 }

ruckusRadioCountry OBJECT-TYPE
    SYNTAX  RuckusCountryCode
    MAX-ACCESS read-write
    STATUS current
       DESCRIPTION
       "Specifies the country code."
    ::= { ruckusRadioEntry 2 }

ruckusRadioBSSType OBJECT-TYPE
    SYNTAX  INTEGER {
          station(1),
          master(2),
          independent(3) }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
       "Specifies the bss type."
```

```
    ::= { ruckusRadioEntry 3 }

ruckusRadioChannel OBJECT-TYPE
    SYNTAX  INTEGER (0..14)
    MAX-ACCESS read-write
    STATUS current
        DESCRIPTION
        "Specifies the current operating channel. When 0, it indicates
        the system selects the best channel automatically."
    ::= { ruckusRadioEntry 4 }

ruckusRadioDataRate OBJECT-TYPE
    SYNTAX  OCTET STRING (SIZE(6))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the transmit rate of radio.

         18Mb, 24Mb, 36Mb, 48Mb,
         54Mb.
         11ng/11na - auto, 1Mb, 2Mb, 5.5Mb, 11Mb, 6Mb, 9Mb, 12Mb,
         18Mb, 24Mb, 36Mb, 48Mb, 54Mb,
         6.5Mb, 13Mb, 19.5Mb, 26Mb, 39Mb, 52Mb, 58.5Mb, 65Mb,
         78Mb, 104Mb, 117Mb, 130Mb,
         13.5Mb, 27.5Mb, 40.5Mb, 81.5Mb, 108Mb, 121.5Mb, 135Mb,
         27Mb, 81Mb, 162Mb, 162MB, 216Mb, 243Mb, 270Mb."
    ::= { ruckusRadioEntry 5 }

ruckusRadioTxPower OBJECT-TYPE
    SYNTAX  INTEGER {
          full(0),
```

```
            half(1),
            quarter(2),
            eighth(3),
            minimum(4) }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
            "Specifies the transmit power of radio"
        ::= { ruckusRadioEntry 6 }

    ruckusRadioProtectionMode OBJECT-TYPE
        SYNTAX  INTEGER {
            none(0),
            ctsOnly(1),
            ctsRts(2)}
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
            "Enabled when 11g and 11b clients exist on the same network.
            none:
            Do not use any protection

            ctsOnly:
            AP will send a CTS frame prior to sending 11g frames.
            The CTS frame will silence 11b clients

            rtsCts:
            Require RTS to be sent by sender of 11g frame and responder
            to send CTS prior to any 11g frames being sent."
        ::= { ruckusRadioEntry 7 }
```

```
ruckusRadioNoiseFloor OBJECT-TYPE
    SYNTAX  INTEGER
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the noise floor of radio"
    ::= { ruckusRadioEntry 8 }
```

Radio Stats Table

```
ruckusRadioStatsTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusRadioStatsEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Radios statistics table"
    ::= { ruckusRadioInfo 3 }

ruckusRadioStatsEntry OBJECT-TYPE
    SYNTAX  RuckusRadioStatsEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies radio statistics entry."
    INDEX {
        ifIndex }
    ::= { ruckusRadioStatsTable 1 }

RuckusRadioStatsEntry ::= SEQUENCE {

    ruckusRadioStatsMaxSta          Counter32,
    ruckusRadioStatsNumSta          Counter32,
    ruckusRadioStatsNumAuthSta      Counter32,
    ruckusRadioStatsNumAuthReq      Counter32,
    ruckusRadioStatsNumAuthResp     Counter32,
    ruckusRadioStatsNumAuthSuccess  Counter32,
    ruckusRadioStatsNumAuthFail     Counter32,
    ruckusRadioStatsNumAssocReq     Counter32,
    ruckusRadioStatsNumAssocResp    Counter32,
    ruckusRadioStatsNumAssocSuccess Counter32,
```

```
    ruckusRadioStatsNumAssocFail       Counter32,
    ruckusRadioStatsAssocFailRate      Unsigned32,
    ruckusRadioStatsAuthFailRate       Unsigned32,
    ruckusRadioStatsAssocSuccessRate   Unsigned32,
    ruckusRadioStatsResourceUtil       Unsigned32,
    ruckusRadioStatsRxBytes            Counter32,
    ruckusRadioStatsRxFrames           Counter32,
    ruckusRadioStatsRxWEPFail          Counter32,
    ruckusRadioStatsRxDecryptCRCError  Counter32,
    ruckusRadioStatsRxMICError         Counter32,
    ruckusRadioStatsRxErrors           Counter32,
    ruckusRadioStatsTxBytes            Counter32,
    ruckusRadioStatsTxFrames           Counter32,
    ruckusRadioStatsTotalAssocTime     TimeTicks
    ruckusRadioStatsTotalAirtimeCounter32,
    ruckusRadioStatsBusyAirtime Counter32 }

ruckusRadioStatsMaxSta OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Num of max stations allowed."
    ::= { ruckusRadioStatsEntry 1 }

ruckusRadioStatsNumSta OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Num of associated stations."
```

```
    ::= { ruckusRadioStatsEntry 2 }

ruckusRadioStatsNumAuthSta OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Num of authenticated stations."
    ::= { ruckusRadioStatsEntry 3 }

ruckusRadioStatsNumAuthReq OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of authentication requests."
    ::= { ruckusRadioStatsEntry 4 }

ruckusRadioStatsNumAuthResp OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of authentication responses."
    ::= { ruckusRadioStatsEntry 5 }

ruckusRadioStatsNumAuthSuccess OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
```

```
        "Number of successful authentications."
    ::= { ruckusRadioStatsEntry 6 }

ruckusRadioStatsNumAuthFail OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of authentication failures."
    ::= { ruckusRadioStatsEntry 7 }

ruckusRadioStatsNumAssocReq OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of association requests."
    ::= { ruckusRadioStatsEntry 8 }

ruckusRadioStatsNumAssocResp OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of association responses."
    ::= { ruckusRadioStatsEntry 9 }

ruckusRadioStatsNumAssocSuccess OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
```

```
    DESCRIPTION
        "Number of successful associations."
    ::= { ruckusRadioStatsEntry 10 }

ruckusRadioStatsNumAssocFail OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of association failures."
    ::= { ruckusRadioStatsEntry 11 }

ruckusRadioStatsAssocFailRate OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Station association fail rate. ruckusRadioStatsNumAssocFail/ruckusRadio-
StatsNumAssocReq"
    ::= { ruckusRadioStatsEntry 12 }

ruckusRadioStatsAuthFailRate  OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Station authentication fail rate. ruckusRadioStatsNumAuthFail/ruckusRadio-
StatsNumAuthReq"
    ::= { ruckusRadioStatsEntry 13 }

ruckusRadioStatsAssocSuccessRate OBJECT-TYPE
    SYNTAX  Unsigned32
```

```
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Station association success rate. ruckusRadioStatsNumAssocSuccess/
ruckusRadioStatsNumAssocReq"
    ::= { ruckusRadioStatsEntry 14 }

ruckusRadioStatsResourceUtil OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Wireless resource utilization rate. ruckusRadioStatsNumSta/ruckusRadio-
StatsMaxSta"
    ::= { ruckusRadioStatsEntry 15 }

ruckusRadioStatsRxBytes OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received bytes."
    ::= { ruckusRadioStatsEntry 16 }

ruckusRadioStatsRxFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received frames."
    ::= { ruckusRadioStatsEntry 17 }
```

```
ruckusRadioStatsRxWEPFail OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received failured WEP frames."
    ::= { ruckusRadioStatsEntry 18 }

ruckusRadioStatsRxDecryptCRCError OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received frames with decrypted CRC error."
    ::= { ruckusRadioStatsEntry 19 }

ruckusRadioStatsRxMICError OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received frames with MIC error."
    ::= { ruckusRadioStatsEntry 20 }

ruckusRadioStatsRxErrors OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of received error frames."
    ::= { ruckusRadioStatsEntry 21 }
```

```
ruckusRadioStatsTxBytes OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of transmitted bytes."
    ::= { ruckusRadioStatsEntry 22 }

ruckusRadioStatsTxFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Count of transmitted frames."
    ::= { ruckusRadioStatsEntry 23 }

ruckusRadioStatsTotalAssocTime OBJECT-TYPE
    SYNTAX  TimeTicks
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Client total association time."
    ::= { ruckusRadioStatsEntry 42 }

ruckusRadioStatsTotalAirtime OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "total airtime."
```

```
    ::= { ruckusRadioStatsEntry 50 }

ruckusRadioStatsBusyAirtime OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "busy airtime."
    ::= { ruckusRadioStatsEntry 51 }
```

Ruckus Adapter MIBs

6

In this chapter:

- Imports
- Groups
- Ruckus Adapter Table
- Ruckus Adapter Information
- Ruckus Adapter Statistics

The Adapter MIB module contains adapter information and statistics.

Imports

```
ruckusCommonAdapterModule
    FROM RUCKUS-ROOT-MIB
    MODULE-IDENTITY,
OBJECT-TYPE,
Counter32
    FROM SNMPv2-SMI
TruthValue,
MacAddress
    FROM SNMPv2-TC
OBJECT-GROUP,
MODULE-COMPLIANCE
    FROM SNMPv2-CONF
ifIndex
    FROM IF-MIB
RuckusdB,
RuckusSSID
    FROM RUCKUS-TC-MIB;
```

Groups

```
ruckusAdapterObjects OBJECT IDENTIFIER  ::= { ruckusAdapterMIB 1 }

ruckusAdapterInfo OBJECT IDENTIFIER     ::= { ruckusAdapterObjects 1 }

ruckusAdapterEvents OBJECT IDENTIFIER   ::= { ruckusAdapterMIB 2 }
```

Ruckus Adapter Table

```
ruckusAdapterTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusAdapterEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies adapter table."
    ::= { ruckusAdapterInfo 1 }

ruckusAdapterEntry OBJECT-TYPE
    SYNTAX  RuckusAdapterEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each adapter entry."
    INDEX {
        ifIndex,
        ruckusAdapterMacAddress }
    ::= { ruckusAdapterTable 1 }

RuckusAdapterEntry ::= SEQUENCE {

    ruckusAdapterMacAddress MacAddress,
    ruckusAdapterReboot     TruthValue }

ruckusAdapterMacAddress OBJECT-TYPE
    SYNTAX  MacAddress
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies adapter hardware address.
```

```
        An index into the table."
    ::= { ruckusAdapterEntry 1 }

ruckusAdapterReboot OBJECT-TYPE
    SYNTAX  TruthValue
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Setting to true(1) would cause to reboot the adapter.
        Always returns false(2)"
    DEFVAL { false }
    ::= { ruckusAdapterEntry 2 }
```

Ruckus Adapter Information

```
ruckusAdapterInfoTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusAdapterInfoEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each adapter table."
    ::= { ruckusAdapterInfo 2 }

ruckusAdapterInfoEntry OBJECT-TYPE
    SYNTAX  RuckusAdapterInfoEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each adapter entry."
    INDEX {
        ifIndex,
        ruckusAdapterInfoMacAddr }
    ::= { ruckusAdapterInfoTable 1 }

RuckusAdapterInfoEntry ::= SEQUENCE {

    ruckusAdapterInfoMacAddr MacAddress,
    ruckusAdapterInfoSSID    RuckusSSID,
    ruckusAdapterInfoBSSID   MacAddress,
    ruckusAdapterRssi        RuckusdB }

ruckusAdapterInfoMacAddr OBJECT-TYPE
    SYNTAX  MacAddress
    MAX-ACCESS not-accessible
    STATUS current
```

```
    DESCRIPTION
        "Adapter mac address, an index into the table."
    ::= { ruckusAdapterInfoEntry 1 }

ruckusAdapterInfoSSID OBJECT-TYPE
    SYNTAX  RuckusSSID
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the SSID."
    ::= { ruckusAdapterInfoEntry 2 }

ruckusAdapterInfoBSSID OBJECT-TYPE
    SYNTAX  MacAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the BSS ID."
    ::= { ruckusAdapterInfoEntry 3 }

ruckusAdapterRssi OBJECT-TYPE
    SYNTAX  RuckusdB
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the RSSI."
    ::= { ruckusAdapterInfoEntry 4 }
```

Ruckus Adapter Statistics

```
ruckusAdapterStatTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusAdapterStatEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies adapter table."
    ::= { ruckusAdapterInfo 3 }

ruckusAdapterStatEntry OBJECT-TYPE
    SYNTAX  RuckusAdapterStatEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each adapter entry."
    INDEX {
        ifIndex,
        ruckusAdapterStatMacAddr }
    ::= { ruckusAdapterStatTable 1 }

RuckusAdapterStatEntry ::= SEQUENCE {

    ruckusAdapterStatMacAddr       MacAddress,
    ruckusAdapterStatRxDataFrames  Counter32,
    ruckusAdapterStatRxMgmtFrames  Counter32,
    ruckusAdapterStatRxCtrlFrames  Counter32,
    ruckusAdapterStatRxUcastFrames Counter32,
    ruckusAdapterStatRxMcastFrames Counter32,
    ruckusAdapterStatRxBytes       Counter32,
    ruckusAdapterStatRxDup         Counter32,
    ruckusAdapterStatRxNoPrivacy   Counter32,
```

```
    ruckusAdapterStatRxWEPFail     Counter32,
    ruckusAdapterStatRxDemicFail   Counter32,
    ruckusAdapterStatRxDecap       Counter32,
    ruckusAdapterStatRxDeFrag      Counter32,
    ruckusAdapterStatRxDisAssoc    Counter32,
    ruckusAdapterStatRxDeAuth      Counter32,
    ruckusAdapterStatRxUnAuth      Counter32,
    ruckusAdapterStatRxUnEncrypted Counter32,
    ruckusAdapterStatRxBeacons     Counter32,
    ruckusAdapterStatTxDataFrames    Counter32,
    ruckusAdapterStatTxMgmtFrames  Counter32,
    ruckusAdapterStatTxUcastFrames Counter32,
    ruckusAdapterStatTxMcastFrames Counter32,
    ruckusAdapterStatTxBytes       Counter32,
    ruckusAdapterStatTxAssoc       Counter32,
    ruckusAdapterStatTxAssocFail   Counter32,
    ruckusAdapterStatTxAuth        Counter32,
    ruckusAdapterStatTxAuthFail    Counter32,
    ruckusAdapterStatTxDeAuth      Counter32,
    ruckusAdapterStatTxDisAssoc    Counter32,
    ruckusAdapterStatTxProbeReq    Counter32,
    ruckusAdapterStatTxProbeResp   Counter32 }

ruckusAdapterStatMacAddr OBJECT-TYPE
    SYNTAX  MacAddress
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Adapter mac address, an index into the table."
    ::= { ruckusAdapterStatEntry 1 }
```

```
ruckusAdapterStatRxDataFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx data frames."
    ::= { ruckusAdapterStatEntry 2 }

ruckusAdapterStatRxMgmtFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx management frames."
    ::= { ruckusAdapterStatEntry 3 }

ruckusAdapterStatRxCtrlFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx control frames."
    ::= { ruckusAdapterStatEntry 4 }

ruckusAdapterStatRxUcastFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx unicast frames."
    ::= { ruckusAdapterStatEntry 5 }
```

```
ruckusAdapterStatRxMcastFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx multicast/broadcast frames."
    ::= { ruckusAdapterStatEntry 6 }

ruckusAdapterStatRxBytes OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx data count (bytes)"
    ::= { ruckusAdapterStatEntry 7 }

ruckusAdapterStatRxDup OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx discard because of duplicates."
    ::= { ruckusAdapterStatEntry 8 }

ruckusAdapterStatRxNoPrivacy OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx w/ wep but privacy off."
```

```
    ::= { ruckusAdapterStatEntry 9 }

ruckusAdapterStatRxWEPFail OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx wep processing failed."
    ::= { ruckusAdapterStatEntry 10 }

ruckusAdapterStatRxDemicFail OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx demic failed."
    ::= { ruckusAdapterStatEntry 11 }

ruckusAdapterStatRxDecap OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx decapsulation failed."
    ::= { ruckusAdapterStatEntry 12 }

ruckusAdapterStatRxDeFrag OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
```

```
        "Rx defragmentation failed."
    ::= { ruckusAdapterStatEntry 13 }

ruckusAdapterStatRxDisAssoc OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx dis associations."
    ::= { ruckusAdapterStatEntry 14 }

ruckusAdapterStatRxDeAuth OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx de authentication."
    ::= { ruckusAdapterStatEntry 15 }

ruckusAdapterStatRxUnAuth OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx un authenticated."
    ::= { ruckusAdapterStatEntry 16 }

ruckusAdapterStatRxUnEncrypted OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
```

```
    DESCRIPTION
        "Rx un encrypted."
    ::= { ruckusAdapterStatEntry 17 }

ruckusAdapterStatRxBeacons OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx beacons."
    ::= { ruckusAdapterStatEntry 18 }

ruckusAdapterStatTxDataFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Rx data frames."
    ::= { ruckusAdapterStatEntry 19 }

ruckusAdapterStatTxMgmtFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Tx management frames."
    ::= { ruckusAdapterStatEntry 20 }

ruckusAdapterStatTxUcastFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
```

```
    STATUS current
    DESCRIPTION
        "Tx unicast frames."
    ::= { ruckusAdapterStatEntry 21 }

ruckusAdapterStatTxMcastFrames OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Tx multicast"
    ::= { ruckusAdapterStatEntry 22 }

ruckusAdapterStatTxBytes OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Tx data count (bytes)."
    ::= { ruckusAdapterStatEntry 23 }

ruckusAdapterStatTxAssoc OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "[re]associations."
    ::= { ruckusAdapterStatEntry 24 }

ruckusAdapterStatTxAssocFail OBJECT-TYPE
    SYNTAX  Counter32
```

```
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "[re]association failures."
    ::= { ruckusAdapterStatEntry 25 }

ruckusAdapterStatTxAuth OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "[re]authentications."
    ::= { ruckusAdapterStatEntry 26 }

ruckusAdapterStatTxAuthFail OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "[re]authentication failures."
    ::= { ruckusAdapterStatEntry 27 }

ruckusAdapterStatTxDeAuth OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Tx de auth."
    ::= { ruckusAdapterStatEntry 28 }

ruckusAdapterStatTxDisAssoc OBJECT-TYPE
```

```
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Tx dis associations."
    ::= { ruckusAdapterStatEntry 29 }

ruckusAdapterStatTxProbeReq OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Tx probe requests."
    ::= { ruckusAdapterStatEntry 30 }

ruckusAdapterStatTxProbeResp OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Tx probe responses."
    ::= { { ruckusAdapterStatEntry 31 }
```

Access Point Device MIBs

7

In this chapter:

- Imports
- Groups
- Device Generals
- SNMP Trap Receiver
- Device Misc IP Configuration
- Device WAN Configuration

The objects contained in the *RUCKUS-DEVICE-MIB.txt* file provide device configuration options including WAN interface settings, IP address, DNS address, IP addressing mode (IPv4/IPv6), and so on.

Imports

```
ruckusCommonDeviceModule
    FROM RUCKUS-ROOT-MIB
TruthValue,
DisplayString
MacAddress
    FROM SNMPv2-TC
MODULE-IDENTITY,
OBJECT-TYPE,
IpAddress
    FROM SNMPv2-SMI
OBJECT-GROUP,
MODULE-COMPLIANCE
    FROM SNMPv2-CONF
ifIndex
    FROM IF-MIB
RuckusCountryCode
    FROM RUCKUS-TC-MIB;
```

Groups

```
ruckusDeviceObjects OBJECT IDENTIFIER   ::= { ruckusDeviceMIB 1 }

ruckusDeviceInfo OBJECT IDENTIFIER  ::= { ruckusDeviceObjects 1 }

ruckusDeviceTrapInfo OBJECT IDENTIFIER  ::= { ruckusDeviceObjects 2 }

ruckusDeviceIPInfo OBJECT IDENTIFIER    ::= { ruckusDeviceObjects 3 }

ruckusDeviceWanInfo OBJECT IDENTIFIER   ::= { ruckusDeviceObjects 4 }

ruckusDeviceEvents OBJECT IDENTIFIER    ::= { ruckusDeviceMIB 2 }
```

Device Generals

```
ruckusDeviceName OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (1..64))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies name of the device.
        Show the same value as model name."
    ::= { { ruckusDeviceInfo 1 }

ruckusDeviceReboot OBJECT-TYPE
    SYNTAX  TruthValue
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Setting this object to true(1) would cause to reboot the device.
        Always returns false(2) on read."
    DEFVAL { false }
    ::= { ruckusDeviceInfo 2 }

ruckusDeviceRebootWithDefaults OBJECT-TYPE
    SYNTAX  TruthValue
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "This allows the product to revert to factory defaults."
    DEFVAL { false }
    ::= { ruckusDeviceInfo 3 }

ruckusDeviceCountryCode OBJECT-TYPE
    SYNTAX  RuckusCountryCode
```

```
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies the country code.
        Example ISO country codes: CA,US,HK,IL,CN,JP,TW."
    ::= { ruckusDeviceInfo 4 }

ruckusDeviceGPS OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (1..32))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies GPS coordinates of the device.
        (e.g.  37.3881,-122.0258)"
    ::= { ruckusDeviceInfo 5 }

ruckusDeviceNEId OBJECT-TYPE

    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "NE Id."
    ::= { ruckusDeviceInfo 6 }

ruckusDeviceLocation OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (1..64))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Location of the device.
        Show the intstallation position."
    ::= { ruckusDeviceInfo 10 }
```

```
ruckusDeviceMacAddr OBJECT-TYPE
    SYNTAX  MacAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
                            "MAC Address"
    ::= { ruckusDeviceInfo 11 }

ruckusDeviceIPAddr OBJECT-TYPE
    SYNTAX  IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
                            "IP Address"
    ::= { ruckusDeviceInfo 12 }
```

SNMP Trap Receiver

```
ruckusDeviceTrapDestination OBJECT-TYPE
   SYNTAX  OCTET STRING  (SIZE (2..40))
   MAX-ACCESS read-write
   STATUS current
   DESCRIPTION
      "Specifies primary trap destination IPv6 or IPv4 address."
   ::= { ruckusDeviceTrapInfo 1 }

ruckusDeviceTrapDestination2 OBJECT-TYPE
   SYNTAX  OCTET STRING  (SIZE (2..40))
   MAX-ACCESS read-write
   STATUS current
   DESCRIPTION
      "Specifies secondary trap destination IPv6 or IPv4 address."
   ::= { ruckusDeviceTrapInfo 2 }

ruckusDeviceTrapDestination3 OBJECT-TYPE
   SYNTAX  OCTET STRING  (SIZE (2..40))
   MAX-ACCESS read-write
   STATUS current
   DESCRIPTION
      "Specifies Third trap destination IPv6 or IPv4 address."
   ::= { ruckusDeviceTrapInfo 3 }

ruckusDeviceTrapDestination4 OBJECT-TYPE
   SYNTAX  OCTET STRING  (SIZE (2..40))
   MAX-ACCESS read-write
   STATUS current
   DESCRIPTION
      "Specifies forth trap destination IPv6 or IPv4 address."
```

```
    ::= { ruckusDeviceTrapInfo 4 }

ruckusDeviceTrapDestination5 OBJECT-TYPE
    SYNTAX  OCTET STRING  (SIZE (2..40))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies fifth trap destination IPv6 or IPv4 address."
    ::= { ruckusDeviceTrapInfo 5 }

ruckusDeviceTrapDestination6 OBJECT-TYPE
    SYNTAX  OCTET STRING  (SIZE (2..40))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies sixth trap destination IPv6 or IPv4 address."
    ::= { ruckusDeviceTrapInfo 6 }

ruckusDeviceTrapDestination7 OBJECT-TYPE
    SYNTAX  OCTET STRING  (SIZE (2..40))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies seventh trap destination IPv6 or IPv4 address."
    ::= { ruckusDeviceTrapInfo 7 }

ruckusDeviceTrapDestination8 OBJECT-TYPE
    SYNTAX  OCTET STRING  (SIZE (2..40))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
```

```
        "Specifies eighth trap destination IPv6 or IPv4 address."
    ::= { ruckusDeviceTrapInfo 8 }

ruckusDeviceTrapDestination9 OBJECT-TYPE
    SYNTAX  OCTET STRING  (SIZE (2..40))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies ninth trap destination IPv6 or IPv4 address."
    ::= { ruckusDeviceTrapInfo 9 }

ruckusDeviceTrapDestination10 OBJECT-TYPE
    SYNTAX  OCTET STRING  (SIZE (2..40))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies tenth trap destination IPv6 or IPv4 address."
    ::= { ruckusDeviceTrapInfo 10 }
```

Device Misc IP Configuration

```
ruckusDevicePrimaryDNS OBJECT-TYPE
    SYNTAX  IpAddress
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies primary DNS IP address."
    ::= { ruckusDeviceIPInfo 1 }

ruckusDeviceSecondaryDNS OBJECT-TYPE
    SYNTAX  IpAddress
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies secondary DNS IP address."
    ::= { { ruckusDeviceIPInfo 2 }

ruckusDevicePrimaryDNSIPV6 OBJECT-TYPE
    SYNTAX  OCTET STRING  (SIZE (2..40))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies primary DNS IPV6 address."
    ::= { ruckusDeviceIPInfo 3 }


ruckusDeviceSecondaryDNSIPV6 OBJECT-TYPE
    SYNTAX  OCTET STRING  (SIZE (2..40))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
```

```
    "Specifies secondary DNS IPV6 address."
::= { ruckusDeviceIPInfo 4 }
```

Device WAN Configuration

```
ruckusDeviceWanTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusDeviceWanEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each wan table."
    ::= { ruckusDeviceWanInfo 1 }

ruckusDeviceWanEntry OBJECT-TYPE
    SYNTAX  RuckusDeviceWanEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each wan entry."
    INDEX {
        ifIndex }
    ::= { ruckusDeviceWanTable 1 }

RuckusDeviceWanEntry ::= SEQUENCE {

    ruckusDeviceWanIPAddrMode      INTEGER,
    ruckusDeviceWanIPAddr          IpAddress,
    ruckusDeviceWanName            DisplayString,
    ruckusDeviceWanNetmask         IpAddress,
    ruckusDeviceWanGateway         IpAddress,

    ruckusDeviceWanIPVersion       INTEGER,
    ruckusDeviceWanIPV6AddrMode    INTEGER,
    ruckusDeviceWanIPV6Addr        OCTET STRING,
    ruckusDeviceWanIPV6PrefixLen   INTEGER,
```

```
    ruckusDeviceWanIPV6Gateway     OCTET STRING }

ruckusDeviceWanIPAddrMode OBJECT-TYPE
    SYNTAX  INTEGER {
          none(1),
          static(2),
          dhcp(3),
          pppoe(4) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies how the wan gets its IP address.

        none   - bridging
        static -  Statically assigned IP address
        dhcp   -  Using DHCP protocol
        pppoe  - Using PPPoE protocol

        when ipaddr mode from dhcp to static,the relative nodes should be set
together ,
        including:ruckusDeviceWanIPAddr,ruckusDeviceWanNetmask,ruckusDevice
WanGateway
        "
    ::= { ruckusDeviceWanEntry 1 }

ruckusDeviceWanIPAddr OBJECT-TYPE
    SYNTAX  IpAddress
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "This is writable only if the ruckusDeviceWanIPAddrMode
        is set to static(2)."
```

```
    ::= { ruckusDeviceWanEntry 2 }

ruckusDeviceWanName OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the name of the wan interface."
    ::= { ruckusDeviceWanEntry 3 }

ruckusDeviceWanNetmask OBJECT-TYPE
    SYNTAX  IpAddress
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies the ip address mask if the ruckusDeviceWanIPAddrMode
        is set to static(2)."
    ::= { ruckusDeviceWanEntry 4 }

ruckusDeviceWanGateway OBJECT-TYPE
    SYNTAX  IpAddress
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies the gateway ipaddr if the ruckusDeviceWanIPAddrMode
        is set to static(2)."
    ::= { ruckusDeviceWanEntry 5 }

ruckusDeviceWanIPVersion OBJECT-TYPE
    SYNTAX  INTEGER { ipv4(1), ipv6(2),dualstack(3) }
    MAX-ACCESS read-write
```

```
    STATUS current
    DESCRIPTION
        "Specifies the system ip version,ipv4 or ipv6 or dualstack.

        ipv4       - only support IPV4
        ipv6       - only support IPV6
        dualstack  - support IPV4 and IPV6"

    DEFVAL {ipv6}
    ::= { ruckusDeviceWanEntry 8 }

ruckusDeviceWanIPV6AddrMode OBJECT-TYPE
    SYNTAX  INTEGER {

          static(2)}
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies how the wan gets its IPV6 address.

        auto-configuration     - auto get ipv6 address by RFC about IPV6
        static                 -  Statically assigned IPV6 address

        when ipv6addr mode from auto-configuration to static, the relative nodes
should be set together ,
        including:ruckusDeviceWanIPV6Addr,ruckusDeviceWanIPV6PrefixLen,rucku
sDeviceWanIPV6Gateway "

    DEFVAL {auto-configuration}
    ::= { ruckusDeviceWanEntry 10 }

ruckusDeviceWanIPV6Addr OBJECT-TYPE
```

```
    SYNTAX  OCTET STRING  (SIZE (2..40))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "This is writable only if the ruckusDeviceWanIPAddrMode
        is set to static(2)."
    ::= { ruckusDeviceWanEntry 11 }

ruckusDeviceWanIPV6PrefixLen OBJECT-TYPE
    SYNTAX  INTEGER (3..128)
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies the ip v6 address prefix length if the ruckusDeviceWanIPV6Ad-
drMode
        is set to static(2)."
    ::= { ruckusDeviceWanEntry 12 }

ruckusDeviceWanIPV6Gateway OBJECT-TYPE
    SYNTAX  OCTET STRING  (SIZE (2..40))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies the gateway ipv6 address if the ruckusDeviceWanIPV6AddrMode
        is set to static(2)."
    ::= { { ruckusDeviceWanEntry 13 }
```

Access Point DHCP MIBs

8

In this chapter:

- Imports
- Groups
- DHCP Client Table

The objects contained in the *RUCKUS-DHCP-MIB.txt* file provide Access Point DHCP configuration options including DHCP IP addresses, subnet mask, client IP lease time, etc.

Imports

```
ruckusCommonDHCPModule
    FROM RUCKUS-ROOT-MIB
MODULE-IDENTITY,
OBJECT-TYPE,
IpAddress,
Unsigned32
    FROM SNMPv2-SMI
OBJECT-GROUP,
MODULE-COMPLIANCE
    FROM SNMPv2-CONF
MacAddress,
TruthValue
    FROM SNMPv2-TC;
```

Groups

```
ruckusDHCPObjects OBJECT IDENTIFIER     ::= { ruckusDHCPMIB 1 }

ruckusDHCPClientInfo OBJECT IDENTIFIER  ::= { ruckusDHCPObjects 1 }

ruckusDHCPClientExternal OBJECT IDENTIFIER  ::= { ruckusDHCPObjects 2 }

ruckusDHCPClientEvents OBJECT IDENTIFIER    ::= { ruckusDHCPMIB 2 }
```

DHCP Client Table

```
ruckusDHCPClientTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusDHCPClientEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies dhcp client table."
    ::= { ruckusDHCPClientInfo 1 }

ruckusDHCPClientEntry OBJECT-TYPE
    SYNTAX  RuckusDHCPClientEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each dhcp client entry."
    INDEX {
        ruckusDHCPClientHWAddress }
    ::= { ruckusDHCPClientTable 1 }

RuckusDHCPClientEntry ::= SEQUENCE {

    ruckusDHCPClientHWAddress  MacAddress,
    ruckusDHCPClientIPAddress  IpAddress,
    ruckusDHCPClientSubnetMask IpAddress,
    ruckusDHCPClientLeaseTime  Unsigned32 }

ruckusDHCPClientHWAddress OBJECT-TYPE
    SYNTAX  MacAddress
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
```

```
        "Macaddress of the client, an index into the table."
    ::= { ruckusDHCPClientEntry 1 }

ruckusDHCPClientIPAddress OBJECT-TYPE
    SYNTAX  IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the IP address of the client."
    ::= { ruckusDHCPClientEntry 2 }

ruckusDHCPClientSubnetMask OBJECT-TYPE
    SYNTAX  IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the subnet mask of the client."
    ::= { ruckusDHCPClientEntry 3 }

ruckusDHCPClientLeaseTime OBJECT-TYPE
    SYNTAX  Unsigned32
    UNITS
        "seconds"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the lease time."
    ::= { ruckusDHCPClientEntry 4 }

ruckusDHCPClientExternalRenew OBJECT-TYPE
    SYNTAX  TruthValue
```

```
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "Specifies if the IP address needs to be
    renewed or not from the service provider."
DEFVAL { true }
::= { ruckusDHCPClientExternal 1 }
```

Access Point Ethernet MIBs

9

In this chapter:

- Imports
- Groups
- Ethernet Statistics

The objects contained in the *RUCKUS-ETH-MIB.txt* file provide Ethernet port information objects including interface name, transmission statistics, etc.

Imports

```
ruckusCommonEthModule
    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
    FROM SNMPv2-SMI;
```

Groups

```
ruckusEthObjects OBJECT IDENTIFIER  ::= { ruckusEthMIB 1 }

ruckusEthInfo OBJECT IDENTIFIER     ::= { ruckusEthObjects 1 }

ruckusEthEvents OBJECT IDENTIFIER   ::= { ruckusEthMIB 2 }
```

Ethernet Statistics

```
ruckusEthStatsTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusEthStatsEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Eth statistics table"
    ::= { ruckusEthInfo 1 }

ruckusEthStatsEntry OBJECT-TYPE
    SYNTAX  RuckusEthStatsEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each Eth statictics entry."
    INDEX {
        ifIndex }
    ::= { ruckusEthStatsTable 1 }

RuckusEthStatsEntry ::= SEQUENCE {

    ruckusEthName               DisplayString,
    ruckusEthStatsRxRate        Counter32,
    ruckusEthStatsRxErrorRate   Counter32,
    ruckusEthStatsTxRate        Counter32,
    ruckusEthStatsTxErrorRate   Counter32 }

ruckusEthName OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
```

```
    DESCRIPTION
        "Specifies the name of the eth interface."
    ::= { ruckusEthStatsEntry 1 }

ruckusEthStatsRxRate OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Receipt throughput."
    ::= { ruckusEthStatsEntry 2 }

ruckusEthStatsRxErrorRate  OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Receipt packet error rate."
    ::= { ruckusEthStatsEntry 3 }

ruckusEthStatsTxRate  OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Transmit throughput."
    ::= { ruckusEthStatsEntry 4 }

ruckusEthStatsTxErrorRate  OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
```

```
STATUS current
DESCRIPTION
    "Transmit packet error rate."
::= { ruckusEthStatsEntry 5 }
```

Access Point Hardware Info MIBs 10

In this chapter:

- Imports
- Groups
- Hardware Information

The objects contained in the *RUCKUS-HWINIFO-MIB.txt* file provide hardware information such as serial number, model number, etc.

Imports

```
ruckusCommonHwInfoModule
    FROM RUCKUS-ROOT-MIB
DisplayString
    FROM SNMPv2-TC
OBJECT-GROUP,
MODULE-COMPLIANCE
    FROM SNMPv2-CONF
MODULE-IDENTITY,
OBJECT-TYPE,
Unsigned32
    FROM SNMPv2-SMI;
```

Groups

```
ruckusHwInfoObjects OBJECT IDENTIFIER   ::= { ruckusHwInfoMIB 1 }

ruckusHwInfo OBJECT IDENTIFIER  ::= { ruckusHwInfoObjects 1 }

ruckusHwInfoEvents OBJECT IDENTIFIER    ::= { ruckusHwInfoMIB 2 }
```

Hardware Information

```
ruckusHwInfoModelNumber OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (1..16))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the model number of the device."
    ::= { ruckusHwInfo 1 }

ruckusHwInfoSerialNumber OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (1..16))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the serial number of the device."
    ::= { ruckusHwInfo 2 }

ruckusHwInfoCustomerID OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (1..32))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the name of the customer."
    ::= { ruckusHwInfo 3 }

ruckusHwInfoHWMajorRevision OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies major hardware revision."
```

```
    ::= { ruckusHwInfo 4 }

ruckusHwInfoHWMinorRevision OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies minor hardware revision."
    ::= { ruckusHwInfo 5 }
```

Access Point L2TP MIBs

11

In this chapter:

- Imports
- Groups
- L2TP Information

The objects contained in the *RUCKUS-L2TP-MIB.txt* file provide Layer 2 Tunneling Protocol information including L2TP connection status, L2TP server IP address, shared secret, etc.

Imports

```
ruckusCommonL2TPModule
    FROM RUCKUS-ROOT-MIB
MODULE-IDENTITY,
OBJECT-TYPE
    FROM SNMPv2-SMI
OBJECT-GROUP,
MODULE-COMPLIANCE
    FROM SNMPv2-CONF
TruthValue,
DisplayString
    FROM SNMPv2-TC
InterfaceIndex
    FROM IF-MIB;
```

Groups

```
ruckusL2TPObjects OBJECT IDENTIFIER    ::= { ruckusL2TPMIB 1 }

ruckusL2TPInfo OBJECT IDENTIFIER   ::= { ruckusL2TPObjects 1 }

ruckusL2TPEvents OBJECT IDENTIFIER     ::= { ruckusL2TPMIB 2 }
```

L2TP Information

```
ruckusL2TPServiceStatus OBJECT-TYPE
    SYNTAX  INTEGER {
          enabled(1),
          disabled(2) }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
       "Enable/disable L2TP service."
    DEFVAL { true }
    ::= { ruckusL2TPInfo 1 }

ruckusL2TPConnectionStatus OBJECT-TYPE
    SYNTAX  INTEGER {
          connected(1),
          disconnected(2),
          disabled(3) }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
       "Specifies L2TP connection status.  Return up(1) if connection is
       up, down(2) if connection is down, disabled(3) if L2TP is disabled."
    ::= { ruckusL2TPInfo 2 }

ruckusL2TPServerIP OBJECT-TYPE
    SYNTAX  IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
       "IP of L2TP server."
    ::= { ruckusL2TPInfo 3 }
```

```
ruckusL2TPSharedSecret  OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies L2TP Server Shared Secert."
    ::= { ruckusL2TPInfo 4 }

ruckusL2TPUserName OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies L2TP user name.  NOSUCHNAME error returned if L2TP
        is diabled"
    ::= { ruckusL2TPInfo 5 }

ruckusL2TPPassword OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies L2TP password.  NOSUCHNAME error returned if L2TP is diabled"
    ::= { ruckusL2TPInfo 6 }

ruckusL2TPIfIPAddr OBJECT-TYPE
    SYNTAX  IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
```

```
        "IP of L2TP management interface."
    ::= { ruckusL2TPInfo 7 }

ruckusL2TPIfNetMask OBJECT-TYPE
    SYNTAX  IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Netmask of L2TP management interface."
    ::= { ruckusL2TPInfo 8 }

ruckusL2TPIfGateway OBJECT-TYPE
    SYNTAX  IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Default route of L2TP management interface."
    ::= { ruckusL2TPInfo 9 }
```

Access Point PPPoE MIBs

12

In this chapter:

- Imports
- Groups
- PPPoE Information

The objects contained in the *RUCKUS-PPPOE-MIB.txt* file provide Access Point PPPoE configuration options including PPPoE user name, password, connection status, etc.

Imports

```
ruckusCommonPPPOEModule
    FROM RUCKUS-ROOT-MIB
MODULE-IDENTITY,
OBJECT-TYPE
    FROM SNMPv2-SMI
OBJECT-GROUP,
MODULE-COMPLIANCE
    FROM SNMPv2-CONF
DisplayString
    FROM SNMPv2-TC
InterfaceIndex
    FROM IF-MIB;
```

Groups

```
ruckusPPPOEObjects OBJECT IDENTIFIER    ::= { ruckusPPPOEMIB 1 }

ruckusPPPOEInfo OBJECT IDENTIFIER   ::= { ruckusPPPOEObjects 1 }

ruckusPPPOEEvents OBJECT IDENTIFIER     ::= { ruckusPPPOEMIB 2 }
```

PPPoE Information

```
ruckusPPPOEUserName OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (1..64))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies PPPoE user name. But it will not be effective unless you set apply(1)
to ruckusPPPOEApply."
    ::= { ruckusPPPOEInfo 1 }

ruckusPPPOEPassword OBJECT-TYPE
    SYNTAX  OCTET STRING (SIZE (1..64))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies PPPoE password. But it will not be effective unless you set apply(1)
to ruckusPPPOEApply."
    ::= { ruckusPPPOEInfo 2 }

ruckusPPPOEConnectionStatus OBJECT-TYPE
    SYNTAX  INTEGER {
          connected(1),
          notConnected(2) }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies PPPoE connection status.  Return up(1) if connection is
        up, down(2) if connection is down, disabled(3) if PPPoE is disabled."
        ::= { ruckusPPPOEInfo 3 }

ruckusPPPOEConnection OBJECT-TYPE
```

```
    SYNTAX  INTEGER {
          connect(1),
          disConnect(2),
          ok(3) ,
          disabled(4)}
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
       "Set connect(1) to connect or re-connect and disConnect(2)
       to PPPoE server. On read, return enabled(3) if PPPoE is enabled, or
       disabled(4) if PPPoE is disabled."
    ::= { ruckusPPPOEInfo 4 }

ruckusPPPOEIfindex OBJECT-TYPE
    SYNTAX  InterfaceIndex
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
       "Specifies the interface index, in the ifTable."
    ::= { ruckusPPPOEInfo 5 }

ruckusPPPOEApply OBJECT-TYPE
    SYNTAX  INTEGER { apply(1)}
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
       "Set apply(1) to apply the change of username and password for PPPoE .
        Firstly, set the mib nodes : ruckusPPPOEUserName and ruckusPPPOEPass-
word .
        Secondly, set apply(1) to enable this PPPOE's username and password.
        For read, only return 0."
    ::= { ruckusPPPOEInfo 6 }
```

Access Point Software Info MIBs 13

In this chapter:

- Imports
- Groups
- Software Revision Information

The objects contained in the *RUCKUS-SWINFO-MIB.txt* file provide Access Point software information including software revision, file size, etc.

Imports

```
ruckusCommonSwInfoModule
    FROM RUCKUS-ROOT-MIB
DateAndTime,
DisplayString,
TruthValue
    FROM SNMPv2-TC
OBJECT-GROUP,
MODULE-COMPLIANCE
    FROM SNMPv2-CONF
MODULE-IDENTITY,
OBJECT-TYPE,
Unsigned32
    FROM SNMPv2-SMI;
```

Groups

```
ruckusSwInfoObjects OBJECT IDENTIFIER   ::= { ruckusSwInfoMIB 1 }

ruckusSwInfo OBJECT IDENTIFIER  ::= { ruckusSwInfoObjects 1 }

ruckusSwInfoEvents OBJECT IDENTIFIER    ::= { ruckusSwInfoMIB 2 }
```

Software Revision Information

```
ruckusSwRevTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusSwRevEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "This table maintains all the software revision information.
        This table is used to activate the inactive software."
    ::= { ruckusSwInfo 1 }

ruckusSwRevEntry OBJECT-TYPE
    SYNTAX  RuckusSwRevEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Each software revision entry."
    INDEX {
        ruckusSwRevIndex }
    ::= { ruckusSwRevTable 1 }

RuckusSwRevEntry ::= SEQUENCE {

    ruckusSwRevIndex  INTEGER,
    ruckusSwRevName   DisplayString,
    ruckusSwRevision  DisplayString,
    ruckusSwRevSize   Unsigned32,
    ruckusSwRevStatus INTEGER }

ruckusSwRevIndex OBJECT-TYPE
    SYNTAX  INTEGER (1..10)
    MAX-ACCESS not-accessible
```

```
    STATUS current
    DESCRIPTION
        "This is an index into the SoftwareRev Table. This table
        contains two entries for active and inactive respectively."
    ::= { ruckusSwRevEntry 1 }

ruckusSwRevName OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (1..64))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The name of the file."
    ::= { ruckusSwRevEntry 2 }

ruckusSwRevision OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (1..32))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The software revision of the file."
    ::= { { ruckusSwRevEntry 3 }

ruckusSwRevSize OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The size of the file in kilo bytes (KB=2**10, rounded up)."
    ::= { ruckusSwRevEntry 4 }

ruckusSwRevStatus OBJECT-TYPE
```

```
SYNTAX  INTEGER {
      inactive(1),
      active(2) }
MAX-ACCESS read-only
STATUS current
DESCRIPTION
   "This indicates the current state of the software.
   This may either be active (currently running), or
   inactive."
::= { ruckusSwRevEntry 5 }
```

Access Point Upgrade MIBs

14

In this chapter:

- Imports
- Groups
- Server and File Settings for Software Upgrade
- Auto Upgrade Group

The objects contained in the *RUCKUS-UPGRADE-MIB.txt* file provide Access Point upgrade firmware upgrade information such as transfer method, transfer control file name, FTP password, auto update settings, etc.

Imports

```
ruckusCommonUpgradeModule
    FROM RUCKUS-ROOT-MIB
DateAndTime,
DisplayString,
TruthValue
    FROM SNMPv2-TC
OBJECT-GROUP,
MODULE-COMPLIANCE
    FROM SNMPv2-CONF
MODULE-IDENTITY,
OBJECT-TYPE,
IpAddress,
Unsigned32
    FROM SNMPv2-SMI;
```

Groups

```
ruckusUpgradeObjects OBJECT IDENTIFIER  ::= { ruckusUpgradeMIB 1 }

ruckusFileTransfer OBJECT IDENTIFIER    ::= { ruckusUpgradeObjects 1 }

ruckusAutoUpgrade OBJECT IDENTIFIER     ::= { ruckusUpgradeObjects 2 }
```

Server and File Settings for Software Upgrade

```
ruckusFileTransferMethod OBJECT-TYPE
   SYNTAX  INTEGER {
         tftp(1),
         ftp(2),
         web(3) }
   MAX-ACCESS read-write
   STATUS current
   DESCRIPTION
      "Specifies the file tranfer method.  ruckusFileTransferFTPUsername
      and ruckusFileTransferFTPPassword must be specified if FTP(2) is
      elected"
   ::= { ruckusFileTransfer 1 }

ruckusFileTransferHostName OBJECT-TYPE
   SYNTAX  DisplayString (SIZE (1..40))
   MAX-ACCESS read-write
   STATUS current
   DESCRIPTION
      "Specifies the name of the host where the
      control file is residing.It is the same as 'ruckusFileTransferHostAddr'
      when it is a ipv4/ipv6 address.
      the value is ipv4 address,ipv6 address or domain name."
   ::= { ruckusFileTransfer 2 }

ruckusFileTransferHostAddr OBJECT-TYPE
   SYNTAX  OCTET STRING  (SIZE (2..40))
   MAX-ACCESS read-write
   STATUS current
   DESCRIPTION
      "Specifies the IP(V6) address of the host.  This IP(V6) address shall
```

```
        be used when DNS resolution fails with ruckusFileTransferHostName.
        This node is the same as the node 'ruckusFileTransferHostName' when it
        is a ipv4/ipv6 address,otherwise it return NULL.
        The value is ipv4 address pr ipv6 address."
    ::= { ruckusFileTransfer 3 }

ruckusFileTransferControlFileName OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (1..63))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies the name of the control file."
    ::= { { ruckusFileTransfer 4 }

ruckusFileTransferFTPUsername OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (1..63))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies username for FTP file transfer."
    ::= { ruckusFileTransfer 5 }

ruckusFileTransferFTPPassword OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (1..63))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies password for FTP file transfer."
    ::= { ruckusFileTransfer 6 }

ruckusFileTransferUpgradeNow OBJECT-TYPE
```

```
    SYNTAX  TruthValue
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Setting this object to true(1) would cause upgrade to take place
        immediately.  Always returns false(2) on read."
    ::= { ruckusFileTransfer 7 }

ruckusFileTransferTakeEffectImmediately OBJECT-TYPE
    SYNTAX  TruthValue
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Setting this object to true(1) sets a flag such that the device
        will reboot upon successful completion of the transfer. Reading it
        returns the state of that flag."
    ::= { ruckusFileTransfer 8 }
```

Auto Upgrade Group

```
ruckusAutoUpgradeInitialCheckInterval OBJECT-TYPE
        SYNTAX  Unsigned32
    UNITS
        "minutes"
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies initial check interval."
    DEFVAL { 5 }
    ::= { ruckusAutoUpgrade 1 }

ruckusAutoUpgradeCheckInterval OBJECT-TYPE
    SYNTAX  Unsigned32
    UNITS
        "minutes"
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies the interval in minutes, to check if there is a new
        software available at the host.

        If the interval is zero, means that the software download
        is disabled."
    DEFVAL { 720 }
    ::= { ruckusAutoUpgrade 2 }

ruckusAutoUpgradeStatus OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-write
    STATUS current
```

```
DESCRIPTION
    "To enable/disable automatic upgrade capability."
::= { ruckusAutoUpgrade 3 }
```

MediaFlex 2825 MIBs

15

In this chapter:

- Imports
- Scalars and Tables
- Notification Types
- Groups

The objects contained in the *RUCKUS-2825-MIB.txt* file provide SNMP MIBs for the MediaFlex 2825 AP.

Imports

```
   ruckusVF2825
      FROM RUCKUS-PRODUCTS-MIB
   ifIndex
      FROM IF-MIB
   DisplayString
      FROM SNMPv2-TC
   MODULE-IDENTITY,
   OBJECT-TYPE
      FROM SNMPv2-SMI
   OBJECT-GROUP
      FROM SNMPv2-CONF;
```

Scalars and Tables

```
ruckusVF2825Objects OBJECT IDENTIFIER   ::= { ruckusVF2825MIB 1 }

ruckusVF2825Info OBJECT IDENTIFIER  ::= { ruckusVF2825Objects 1 }

ruckusVF2825NetworkTable OBJECT-TYPE
   SYNTAX  SEQUENCE OF RuckusVF2825NetworkEntry
   MAX-ACCESS not-accessible
   STATUS current
   DESCRIPTION
      "Specifies ruckusVF2825Network table."
   ::= { ruckusVF2825Info 1 }

ruckusVF2825NetworkEntry OBJECT-TYPE
   SYNTAX  RuckusVF2825NetworkEntry
   MAX-ACCESS not-accessible
   STATUS current
   DESCRIPTION
```

```
        "Specifies each network entry."
    INDEX {
        ruckusVF2825NetworkName,
        ifIndex }
    ::= { ruckusVF2825NetworkTable 1 }

RuckusVF2825NetworkEntry ::= SEQUENCE {

    ruckusVF2825NetworkName   DisplayString,
    ruckusVF2825NetworkIfName DisplayString }

ruckusVF2825NetworkName OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (1..16))
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies the network name.
        Valid network names are:
        wan, lan, or videoWan, ..."
    ::= { ruckusVF2825NetworkEntry 1 }

ruckusVF2825NetworkIfName OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (1..16))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the interface name."
    ::= { ruckusVF2825NetworkEntry 2 }
```

Notification Types

```
ruckusVF2825Events OBJECT IDENTIFIER    ::= { ruckusVF2825MIB 2 }
```

Groups

ruckusVF2825Groups OBJECT IDENTIFIER ::= { ruckusVF2825Conf 1 }

Access Point Wireless Link MIBs 16

In this chapter:

- Imports
- Groups
- Wireless Link Table

The objects contained in the *RUCKUS-WLINK-MIB.txt* file provide wireless link information including link uptime, transmission statistics, etc.

Imports

```
ruckusCommonWLINKModule
    FROM RUCKUS-ROOT-MIB
RuckusSSID
    FROM RUCKUS-TC-MIB
DisplayString,
MacAddress
    FROM SNMPv2-TC
ifIndex
    FROM IF-MIB
MODULE-IDENTITY,
OBJECT-TYPE,
Counter32,
Integer32,
Unsigned32
    FROM SNMPv2-SMI;
```

Groups

```
ruckusWLINKObjects OBJECT IDENTIFIER ::= { ruckusWLINKMIB 1 }

ruckusWLINKInfo OBJECT IDENTIFIER    ::= { ruckusWLINKObjects 1 }

ruckusWLINKEvents OBJECT IDENTIFIER  ::= { ruckusWLINKMIB 2 }
```

Wireless Link Table

```
ruckusWLINKTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF RuckusWLINKEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "WLINK table."
    ::= { ruckusWLINKInfo 1 }

ruckusWLINKEntry OBJECT-TYPE
    SYNTAX  RuckusWLINKEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Specifies each WLINK entry."
    INDEX {
        ifIndex }
    ::= { ruckusWLINKTable 1 }

RuckusWLINKEntry ::= SEQUENCE {

    ruckusWLINKSSID              RuckusSSID,
    ruckusWLINKRole              INTEGER,
    ruckusWLINKLocalMAC          MacAddress,
    ruckusWLINKRemoteMAC         MacAddress,
    ruckusWLINKTxPkts            Counter32,
    ruckusWLINKTxBytes           Counter32,
    ruckusWLINKRxPkts            Counter32,
    ruckusWLINKRxBytes           Counter32,
    ruckusWLINKEstablishTime     DisplayString,
    ruckusWLINKUpTime            Unsigned32,
```

```
    ruckusWLINKRssi              Integer32,
    ruckusWLINKUpCount           Integer32,
    ruckusWLINKDownCount         Integer32 }

ruckusWLINKSSID OBJECT-TYPE
    SYNTAX  RuckusSSID
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the name of the SSID."
    ::= { ruckusWLINKEntry 1 }

ruckusWLINKRole OBJECT-TYPE
    SYNTAX  INTEGER {
          rootBridge(1),
          nonRootBridge(2),
          notDecided(3),
          notAvailable(4) }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the name of the SSID."
    ::= { ruckusWLINKEntry 2 }

ruckusWLINKLocalMAC OBJECT-TYPE
    SYNTAX  MacAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "It is the 48-bit MAC address of the wireless interface of local side."
    ::= { ruckusWLINKEntry 3 }
```

```
ruckusWLINKRemoteMAC OBJECT-TYPE
    SYNTAX  MacAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "It is the 48-bit MAC address of the wireless interface of remote side."
    ::= { ruckusWLINKEntry 4 }

ruckusWLINKTxPkts OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of tx packets."
    ::= { ruckusWLINKEntry 5 }

ruckusWLINKTxBytes OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of tx bytes."
    ::= { ruckusWLINKEntry 6 }

ruckusWLINKRxPkts OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of rx packets."
```

```
    ::= { ruckusWLINKEntry 7 }

ruckusWLINKRxBytes OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of rx bytes."
    ::= { ruckusWLINKEntry 8 }

ruckusWLINKEstablishTime OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (1..64))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The establish time of the link (UTC)."
    ::= { ruckusWLINKEntry 9 }

ruckusWLINKUpTime OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The up time of the link in seconds."
    ::= { ruckusWLINKEntry 10 }

ruckusWLINKRssi OBJECT-TYPE
    SYNTAX  Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
```

```
        "Link RSSI."
    ::= { ruckusWLINKEntry 11 }

ruckusWLINKUpCount OBJECT-TYPE
    SYNTAX  Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The link up count during its uptime."
    ::= { ruckusWLINKEntry 12 }

ruckusWLINKDownCount OBJECT-TYPE
    SYNTAX  Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The link down count during its uptime."
    ::= { ruckusWLINKEntry 13 }
```

Access Point Root MIBs

17

In this chapter:

- Imports
- Groups

The *RUCKUS-ROOT-MIB.txt* file is the top-level MIB file which defines groups for each of the other modules of the Ruckus AP MIB files.

Imports

```
enterprises,
   MODULE-IDENTITY
      FROM SNMPv2-SMI;

ruckusRootMIB 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 top level mib."
   ::= { enterprises 25053 }
```

Groups

```
ruckusObjects OBJECT IDENTIFIER  ::= { ruckusRootMIB 1 }

ruckusCommon OBJECT IDENTIFIER   ::= { ruckusObjects 1 }

ruckusCommonTCModule OBJECT IDENTIFIER      ::= { ruckusCommon 1 }
```

```
ruckusCommonHwInfoModule OBJECT IDENTIFIER  ::= { ruckusCommon 2 }

ruckusCommonSwInfoModule OBJECT IDENTIFIER  ::= { ruckusCommon 3 }

ruckusCommonDeviceModule OBJECT IDENTIFIER  ::= { ruckusCommon 4 }

ruckusCommonUpgradeModule OBJECT IDENTIFIER ::= { ruckusCommon 5 }

ruckusCommonWLANModule OBJECT IDENTIFIER    ::= { ruckusCommon 6 }

-- ruckusCommonDHCPModule OBJECT IDENTIFIER    ::= { ruckusCommon 7 }

ruckusCommonPPPOEModule OBJECT IDENTIFIER   ::= { ruckusCommon 8 }

ruckusCommonAdapterModule OBJECT IDENTIFIER ::= { ruckusCommon 9 }

-- ruckusCommonQosModule OBJECT IDENTIFIER     ::= { ruckusCommon 10 }

ruckusCommonSystemModule OBJECT IDENTIFIER  ::= { ruckusCommon 11 }

ruckusCommonRadioModule OBJECT IDENTIFIER   ::= { ruckusCommon 12 }

ruckusCommonEthModule OBJECT IDENTIFIER     ::= { ruckusCommon 13 }

ruckusCommonL2TPModule OBJECT IDENTIFIER    ::= { ruckusCommon 14 }

ruckusCommonWLINKModule OBJECT IDENTIFIER   ::= { ruckusCommon 15 }

ruckusCommonGreTunnelModule OBJECT IDENTIFIER  ::= { ruckusCommon 20 }

ruckusZD OBJECT IDENTIFIER   ::= { ruckusObjects 2 }
```

```
ruckusZDSystemModule OBJECT IDENTIFIER      ::= { ruckusZD 1 }

ruckusZDWLANModule OBJECT IDENTIFIER        ::= { ruckusZD 2 }

ruckusEvents OBJECT IDENTIFIER    ::= { ruckusRootMIB 2 }

ruckusProducts OBJECT IDENTIFIER  ::= { ruckusRootMIB 3 }

-- Conformance & Complliance
--

ruckusConformance OBJECT IDENTIFIER  ::= { ruckusRootMIB 4 }

ruckusConfGroups OBJECT IDENTIFIER   ::= { ruckusConformance 1 }

ruckusCompliances OBJECT IDENTIFIER  ::= { ruckusConformance 2 }

END
```

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