



Ruckus Wireless™ FlexMaster™ 9.6

SNMP Reference Guide

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About This Guide

This *Ruckus Wireless FlexMaster SNMP Reference Guide* contains information about configuring and monitoring FlexMaster Release 9.6.2 devices and supported ZoneFlex devices using Simple Network Management Protocol (SNMP).

NOTE Refer to the *FlexMaster 9.6 User Guide* for SNMP server configuration instructions.

This guide is written for service operators and system administrators who are responsible for managing, configuring, and troubleshooting Ruckus Wireless devices. Consequently, it assumes a basic working knowledge of local area networks, wireless networking, and wireless devices. Prior knowledge and experience with SNMP would be helpful.

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 <https://support.ruckuswireless.com/documents>.

Document Conventions

The following two tables list the text and notice conventions that are used throughout this guide.

Table 1. Text conventions

Convention	Description	Example
monospace	Represents information as it appears on screen	[Device name]>
monospace bold	Represents information that you enter	[Device name]> set ipaddr 10.0.0.12
default font bold	Keyboard keys, software buttons, and field names	On the Start menu, click All Programs .
<i>italics</i>	Screen or page names	Click Advanced Settings . The <i>Advanced Settings</i> page appears.

Table 2. Notice conventions

Notice Type	Description
NOTE	Information that describes important features or instructions
CAUTION!	Information that alerts you to potential loss of data or potential damage to an application, system, or device
WARNING!	Information that alerts you to potential personal injury

Related Documentation

In addition to this *Administrator Guide*, each FlexMaster documentation set includes the following:

- *User Guide*: Provides detailed information on how to configure the FlexMaster controller. The User Guide is available for download on the Ruckus Wireless Support Web site at <http://support.ruckuswireless.com>.
- *Online Help*: Provides instructions for performing tasks using the FlexMaster Web interface. The online help is accessible from the Web interface and is searchable.
- *Release Notes*: Provide information about the current software release, including new features, enhancements, and known issues.

Documentation Feedback

Ruckus Wireless is interested in improving its documentation and welcomes your comments and suggestions. You can email your comments to Ruckus Wireless at:

docs@ruckuswireless.com

When contacting us, please include the following information:

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

For example:

- FlexMaster 9.6 SNMP Reference Guide
- Part number: 800-70430-001 Revision B
- Page 7

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Event MIBs

In Use the FlexMaster Event MIBs to retrieve information about events that have occurred on FlexMaster.

ruckusFMAlarmCategory

MIB Name

ruckusFMAlarmCategory

OID

1.3.6.1.4.1.25053.2.3.2.32

Status

current

Description

The Ruckus FM alarm category.

ruckusFMAlarmDatetime

MIB Name

ruckusFMAlarmDatetime

OID

1.3.6.1.4.1.25053.2.3.2.35

Status

current

Description

The Ruckus FM alarm date and time.

ruckusFMAlarmDefinitionCode

MIB Name

ruckusFMAlarmDefinitionCode

OID

1.3.6.1.4.1.25053.2.3.2.36

Status

current

Description

The Ruckus FM alarm code.

ruckusFMAlarmDeviceMac

MIB Name

ruckusFMAlarmDeviceMac

OID

1.3.6.1.4.1.25053.2.3.2.30

Status

current

Description

The ZD AP's device MAC.

ruckusFMAlarmDeviceName

MIB Name

ruckusFMAlarmDeviceName

OID

1.3.6.1.4.1.25053.2.3.2.31

Status

current

Description

The ZD AP's device name.

ruckusFMAlarmMessage

MIB Name

ruckusFMAlarmMessage

OID

1.3.6.1.4.1.25053.2.3.2.34

Status

current

Description

The Ruckus FM alarm message.

ruckusFMAlarmSeverity

MIB Name

ruckusFMAlarmSeverity

OID

1.3.6.1.4.1.25053.2.3.2.29

Status

current

Description

The FM alarm severity.

ruckusFMAlarmTypeText

MIB Name

ruckusFMAlarmTypeText

OID

1.3.6.1.4.1.25053.2.3.2.33

Status

current

Description

The Ruckus FM alarm TypeText.

ruckusFMEventAPDeviceName

MIB Name

ruckusFMEventAPDeviceName

OID

1.3.6.1.4.1.25053.2.3.2.28

Status

current

Description

The AP's device name.

ruckusFMEventAPFirmwareVersion

MIB Name

ruckusFMEventAPFirmwareVersion

OID

1.3.6.1.4.1.25053.2.3.2.37

Status

current

Description

The AP's software version.

ruckusFMEventAPIPAddr

MIB Name

ruckusFMEventAPIPAddr

OID

1.3.6.1.4.1.25053.2.3.2.21

Status

current

Description

The AP's IP address.

ruckusFMEventAPMacAddr

MIB Name

ruckusFMEventAPMacAddr

OID

1.3.6.1.4.1.25053.2.3.2.26

Status

current

Description

The AP's MAC address.

ruckusFMEventAPModelName

MIB Name

ruckusFMEventAPModelName

OID

1.3.6.1.4.1.25053.2.3.2.24

Status

current

Description

The AP's model name.

ruckusFMEventAPSerialNumber

MIB Name

ruckusFMEventAPSerialNumber

OID

1.3.6.1.4.1.25053.2.3.2.27

Status

current

Description

The AP's serial number.

ruckusFMEventDescription

MIB Name

ruckusFMEventDescription

Events

ZD-controlled AP reboot

Severity

(enclosed)

OID

1.3.6.1.4.1.25053.2.3.2.1

Status

current

Objects

ruckusFMAlarmDefinitionCode

ruckusFMAlarmDeviceName

ruckusFMAlarmSeverity

ruckusFMAlarmDeviceMac

ruckusFMAlarmCategory

ruckusFMAlarmTypeText

ruckusFMAlarmMessage

ruckusFMAlarmDatetime

Description

Triggered when a ZD-controlled AP reboots. The Definition Code, Device Name, and Alarm Severity are enclosed.

Recommended actions

No action required.

ruckusFMEventZDAdminUpgradeTrap

MIB Name

ruckusFMEventZDAdminUpgradeTrap

Events

Admin upgrade

Severity

low

OID

1.3.6.1.4.1.25053.2.3.1.41

Status

current

Objects

ruckusFMEventZDFirmwareVersion

ruckusFMEventZDIPAddr

ruckusFMEventZDModelName

ruckusFMEventZDSerialNumber

Description

Triggered when there is a ZD upgrade event. The ZD's Firmware version and IP address and Model name and Serial number are enclosed.

Recommended actions

No action required.

ruckusFMEventZDAdminRestartedTrap

MIB Name

ruckusFMEventZDAdminRestartedTrap

Events

Admin restart

Severity

low

OID

1.3.6.1.4.1.25053.2.3.1.42

Status

current

Objects

ruckusFMEventZDIPAddr
ruckusFMEventZDModelName
ruckusFMEventZDSerialNumber

Description

Triggered when there is a ZD restart event. The ZD's IP address and Model name and Serial number are enclosed.

Recommended actions

No action required.

ruckusFMEventZDAdminShutdownTrap

MIB Name

ruckusFMEventZDAdminShutdownTrap

Events

event.admin.shutdown

Severity

minor

OID

1.3.6.1.4.1.25053.2.3.1.43

Status

current

Objects

ruckusFMEventZDIPAddr
ruckusFMEventZDModelName
ruckusFMEventZDSerialNumber

Description

Triggered when there is a ZD shutdown event. The ZD's IP address and Model name and Serial number are enclosed.

Recommended actions

No action required.

ruckusFMEventZDAPDeleteTrap

MIB Name

ruckusFMEventZDAPDeleteTrap

Events

AP delete

Severity

minor

OID

1.3.6.1.4.1.25053.2.3.1.44

Status

current

Objects

ruckusFMEventAPIPAddr

ruckusFMEventAPMacAddr

ruckusFMEventAPModelName

ruckusFMEventZDIPAddr

ruckusFMEventZDModelName

ruckusFMEventZDSerialNumber

Description

Triggered when there is a AP delete event. The AP's IP address and Mac address and Model name, ZD's IP address and Model name and Serial number are enclosed.

Recommended actions

No action required.

ruckusFMEEventZDAPJoinTrap

MIB Name

ruckusFMEEventZDAPJoinTrap

Events

AP joined with reason

AP joined

Severity

medium

OID

1.3.6.1.4.1.25053.2.3.1.45

Status

current

Objects

ruckusFMEEventAPIPAddr

ruckusFMEEventAPMacAddr

ruckusFMEEventAPModelName,

ruckusFMEEventZDIPAddr

ruckusFMEEventZDModelName

ruckusFMEEventZDSerialNumber

Description

Triggered when there is an AP join event. The AP's IP address and Mac address and Model name, ZD's IP address and Model name and Serial number are enclosed.

Recommended actions

No action required.

ruckusFMEventZDAPLostTrap

MIB Name

ruckusFMEventZDAPLostTrap

Events

AP lost

Severity

minor

OID

1.3.6.1.4.1.25053.2.3.1.46

Status

current

Objects

ruckusFMEventAPIPAddr

ruckusFMEventAPMacAddr

ruckusFMEventAPModelName

ruckusFMEventZDIPAddr

ruckusFMEventZDModelName

ruckusFMEventZDSerialNumber

Description

Triggered when AP lost contact for 20 minutes or more. The AP's IP address and Mac address and Model name, ZD's IP address and Model name and Serial number are enclosed.

Recommended actions

Check connection stability between ZD and AP. If customer knows that this AP will never be used, this AP can be removed from the ZD database.

ruckusFMEventZDAPLostHeartbeatTrap

MIB Name

ruckusFMEventZDAPLostHeartbeatTrap

Events

AP lost heartbeat

Severity

medium

OID

1.3.6.1.4.1.25053.2.3.1.47

Status

current

Objects

ruckusFMEventAPIPAddr

ruckusFMEventAPMacAddr

ruckusFMEventAPModelName

ruckusFMEventZDIPAddr

ruckusFMEventZDModelName

ruckusFMEventZDSerialNumber

Description

Triggered when AP loses 30-second heartbeats for 80 seconds or more. The AP's IP address and MAC address and Model name, ZD's IP address and Model name and Serial number are enclosed.

Recommended actions

Check connection stability between ZD and AP.

ruckusFMEventZDFirmwareVersion

MIB Name

ruckusFMEventZDFirmwareVersion

OID

1.3.6.1.4.1.25053.2.3.2.22

Status

current

Description

The ZD's firmware version.

ruckusFMEventZDIPAddr

MIB Name

ruckusFMEventZDIPAddr

OID

1.3.6.1.4.1.25053.2.3.2.20

Status

current

Description

The ZD's IP address.

ruckusFMEventZDModelName

MIB Name

ruckusFMEventZDModelName

OID

1.3.6.1.4.1.25053.2.3.2.23

Status

current

Description

The ZD's model name.

ruckusFMEventZDSerialNumber

MIB Name

ruckusFMEventZDSerialNumber

OID

1.3.6.1.4.1.25053.2.3.2.25

Status

current

Description

The ZD's serial number.

ruckusFMEventZDSystemFailureRecovered

MIB Name

ruckusFMEventZDSystemFailureRecovered

Events

ZD System Failure Recovered

Severity

medium

OID

1.3.6.1.4.1.25053.2.3.1.48

Status

current

Objects

ruckusFMEventZDIPAddr

ruckusFMEventZDSerialNumber

ruckusFMEventZDModelName

Description

Triggered upon ZD System Failure Recovery. The ZD's IP address and Serial number and Model name are enclosed.

Recommended actions

Verify ZD status in ZD user interface.

ruckusFMEventZDSystemStartupTrap

MIB Name

ruckusFMEventZDSystemStartupTrap

Events

System cold restarted
System warm restarted

Severity

minor

OID

1.3.6.1.4.1.25053.2.3.1.49

Status

current

Objects

ruckusFMEventZDIPAddr
ruckusFMEventZDSerialNumber
ruckusFMEventZDModelName

Description

Triggered when there is a ZD cold restart or warm restart event. The ZD's IP address and Serial number and Model name are enclosed.

Recommended actions

No action required.

ruckusFMMiscEventTrap

NOTE The *ruckusFMMiscEventTrap* requires that the ZoneDirector and AP devices support the same set of traps.

Name

ruckusFMMiscEventTrap

Severity

low

OID

1.3.6.1.4.1.25053.2.3.1.1

Status

current

Objects

ruckusFMEventDescription

Description

Generic trap triggered by admin specified miscellaneous event. The Event Description is enclosed.

Recommended actions

No action required.

Events

(various messages)

ruckusStandaloneAPBootTrap

MIB Name

ruckusStandaloneAPBootTrap

Events

standalone AP reboot

Severity

minor

Status

current

Objects

ruckusFMEventAPIPAddr

ruckusFMEventAPMacAddr

ruckusFMEventAPModelName

ruckusFMEventAPSerialNumber

ruckusFMEventAPDeviceName

Description

Triggered when there is a standalone AP reboot event. The AP's IP address, MAC address, Serial number, Device name, and Model name are enclosed.

Recommended actions

No action required.

ruckusStandaloneAPTransferCompleteTrap

MIB Name

ruckusStandaloneAPTransferCompleteTrap

Events

standalone AP transfer complete

Severity

minor

Status

current

Objects

ruckusFMEventAPIPAddr

ruckusFMEventAPMacAddr

ruckusFMEventAPModelName

ruckusFMEventAPSerialNumber

ruckusFMEventAPDeviceName

ruckusFMEventAPFirmwareVersion

Description

Triggered when there is a standalone AP transfer complete event. The AP's IP address, MAC address, Serial number, Device name, Model name and Firmware Version are enclosed.

Recommended actions

No action required.

ruckusStandaloneAPConnectivityProblemTrap

MIB Name

ruckusStandaloneAPConnectivityProblemTrap

Events

standalone AP connection problem

Severity

minor

Status

current

Objects

ruckusFMEventAPIPAddr

ruckusFMEventAPMacAddr

ruckusFMEventAPModelName

ruckusFMEventAPSerialNumber

ruckusFMEventAPDeviceName

Description

Triggered when there is a standalone AP connection problem event. The AP's IP address, MAC address, Serial number, Device name and Model name are enclosed.

Recommended actions

No action required.

ruckusStandaloneAPReconnectTrap

MIB Name

ruckusStandaloneAPReconnectTrap

Events

standalone AP connection problem

Severity

minor

Status

current

Objects

ruckusFMEventAPIPAddr

ruckusFMEventAPMacAddr

ruckusFMEventAPModelName

ruckusFMEventAPSerialNumber

ruckusFMEventAPDeviceName

Description

Triggered when there is a standalone AP reconnect event. The AP's IP address, MAC address, Serial number, Device name and Model name are enclosed.

Recommended actions

No action required.

ruckusFMCPUUsageTrap

MIB Name

ruckusFMCPUUsageTrap

Events

FM CPU usage exceeds the threshold value

Severity

(enclosed)

Status

current

Objects

ruckusFMAlarmDefinitionCode

ruckusFMAlarmDeviceName

ruckusFMAlarmSeverity

ruckusFMAlarmDeviceMac

ruckusFMAlarmCategory

ruckusFMAlarmTypeText

ruckusFMAlarmMessage

ruckusFMAlarmDatetime

Description

Triggered when FM CPU usage exceeds the threshold value. The Definition Code, Device Name, and Alarm Severity are enclosed.

Recommended actions

No action required.

ruckusZDCPUUsageTrap

MIB Name

ruckusZDCPUUsageTrap

Events

ZD CPU usage exceeds the threshold value

Severity

(enclosed)

Status

current

Objects

ruckusFMAlarmDefinitionCode

ruckusFMAlarmDeviceName

ruckusFMAlarmSeverity

ruckusFMAlarmDeviceMac

ruckusFMAlarmCategory

ruckusFMAlarmTypeText

ruckusFMAlarmMessage

ruckusFMAlarmDatetime

Description

Triggered when ZD CPU usage exceeds the threshold value. The Definition Code, Device Name, and Alarm Severity are enclosed.

Recommended actions

No action required.

ruckusZDAPTrafficTrap

MIB Name

ruckusZDAPTrafficTrap

Events

AP count exceeds the threshold value

Severity

(enclosed)

Status

current

Objects

ruckusFMAlarmDefinitionCode

ruckusFMAlarmDeviceName

ruckusFMAlarmSeverity

ruckusFMAlarmDeviceMac

ruckusFMAlarmCategory

ruckusFMAlarmTypeText

ruckusFMAlarmMessage

ruckusFMAlarmDatetime

Description

Triggered when the AP count exceeds the threshold value. The Definition Code, Device Name, and Alarm Severity are enclosed.

Recommended actions

No action required.

ruckusZDAPofclientsTrap

MIB Name

ruckusZDAPofclientsTrap

Events

number of AP clients exceeds the threshold value

Severity

(enclosed)

Status

current

Objects

ruckusFMAlarmDefinitionCode

ruckusFMAlarmDeviceName

ruckusFMAlarmSeverity

ruckusFMAlarmDeviceMac

ruckusFMAlarmCategory

ruckusFMAlarmTypeText

ruckusFMAlarmMessage

ruckusFMAlarmDatetime

Description

Triggered when the number of AP clients exceeds the threshold value. The Definition Code, Device Name, and Alarm Severity are enclosed.

Recommended actions

No action required.

ruckusZDAPLostConnectionTrap

MIB Name

ruckusZDAPLostConnectionTrap

Events

ZD and AP lost their connection

Severity

(enclosed)

Status

current

Objects

ruckusFMAlarmDefinitionCode

ruckusFMAlarmDeviceName

ruckusFMAlarmSeverity

ruckusFMAlarmDeviceMac

ruckusFMAlarmCategory

ruckusFMAlarmTypeText

ruckusFMAlarmMessage

ruckusFMAlarmDatetime

Description

Triggered when the ZD and AP lost their connection. The Definition Code, Device Name, and Alarm Severity are enclosed.

Recommended actions

No action required.

ruckusZDAPChannelChangeTrap

MIB Name

ruckusZDAPChannelChangeTrap

Events

AP channel changes

Severity

(enclosed)

Status

current

Objects

ruckusFMAlarmDefinitionCode

ruckusFMAlarmDeviceName

ruckusFMAlarmSeverity

ruckusFMAlarmDeviceMac

ruckusFMAlarmCategory

ruckusFMAlarmTypeText

ruckusFMAlarmMessage

ruckusFMAlarmDatetime

Description

Triggered when the AP channel changes. The Definition Code, Device Name, and Alarm Severity are enclosed.

Recommended actions

No action required.

ruckusZDAPRebootTrap

MIB Name

ruckusZDAPRebootTrap

Events

ZD-controlled AP reboot

Severity

(enclosed)

Status

current

Objects

ruckusFMAlarmDefinitionCode

ruckusFMAlarmDeviceName

ruckusFMAlarmSeverity

ruckusFMAlarmDeviceMac

ruckusFMAlarmCategory

ruckusFMAlarmTypeText

ruckusFMAlarmMessage

ruckusFMAlarmDatetime

Description

Triggered when a ZD-controlled AP reboots. The Definition Code, Device Name, and Alarm Severity are enclosed.

Recommended actions

No action required.

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