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An Overview of this Manual

This manual is for network administrators and operators responsible for managing the Switch name. The manual enumerates and explains the Simple Network Management Protocol (SNMP) Management Information Base (MIB) objects used to manage Aruba WLAN Switches and Access Points.

Related Documents

The following items are part of the complete documentation for the Aruba system:

- Aruba WLAN Switch Installation Guide
- Aruba Wireless Access Point Installation Guide
- ArubaOS User Guide
- ArubaOS Reference Guide

Text Conventions

The following conventions are used throughout this manual to emphasize important concepts:

<table>
<thead>
<tr>
<th>Type Style</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Italic</td>
<td>This style is used to emphasize important terms and to mark the titles of books.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>System items</th>
<th>This fixed-width font depicts the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>- Sample screen output</td>
</tr>
<tr>
<td></td>
<td>- System prompts</td>
</tr>
<tr>
<td></td>
<td>- Filenames, software devices, and certain commands when mentioned in the text</td>
</tr>
</tbody>
</table>
### Table 1  Text Conventions (Continued)

<table>
<thead>
<tr>
<th>Commands</th>
<th>In the command examples, this bold font depicts text that the user must type exactly as shown.</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;Arguments&gt;</code></td>
<td>In the command examples, italicized text within angle brackets represents items that the user should replace with information appropriate to their specific situation. For example:</td>
</tr>
<tr>
<td># send <code>&lt;text message&gt;</code></td>
<td>In this example, the user would type “send” at the system prompt exactly as shown, followed by the text of the message they wish to send. Do not type the angle brackets.</td>
</tr>
<tr>
<td>[ Optional ]</td>
<td>In the command examples, items enclosed in brackets are optional. Do not type the brackets.</td>
</tr>
<tr>
<td>`{ Item A</td>
<td>Item B }`</td>
</tr>
</tbody>
</table>

### Contacting Aruba Networks

**Web Site**

- **Main Site**  [http://www.arubanetworks.com](http://www.arubanetworks.com)
- **Support**  [http://www.arubanetworks.com/support](http://www.arubanetworks.com/support)

**Telephone Numbers**

- **Main**  408-227-4500
- **Fax**  408-227-4550
- **Sales**  408-754-1201
- **Support**
  - In the US:  **800-WI-FI-LAN (800-943-4526)+**
  - France:  **33 (0) 170725559+44 (0)**
  - UK:  **2071275989+49 (0)**
  - Germany:  **69380977228+00 1**
  - All Other:  **408-754-1200**
The following steps guide you through applying the Aruba MIBs. For information on the MIB contents, see Chapter 2, “Aruba Enterprise MIB Traps.”

Managing Aruba Mobility Controllers

The data to monitor the WLAN Mobility Controller are contained in the aruba-switch MIB file, and are explained in Table 1-1 on page 7.

<table>
<thead>
<tr>
<th>Table Name/OID</th>
<th>Description/OID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switch Objects wlsxSystemXGroup 1.3.6.1.4.1.14823.2.2.1.1.1</td>
<td>Describes a switch (1.3.6.1.4.1.14823.2.2.1.1.1). Includes:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Switch List Table wlsxSwitchListTable 1.3.6.1.4.1.14823.2.2.1.1.1.6</td>
<td>This field lists all the switches in the domain. (Valid only when queried from the master switch.) Includes:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Table 1-1  Aruba Switch MIB Tables (Continued)

<table>
<thead>
<tr>
<th>Table Name/OID</th>
<th>Description/OID</th>
</tr>
</thead>
<tbody>
<tr>
<td>User Table wlsxSwitchUserTable 1.3.6.1.4.1.14823.2.2.1.1.2.1</td>
<td>This field contains the user table containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>User entry wlsxSwitchUserTable 1.3.6.1.4.1.14823.2.2.1.1.2.1</td>
</tr>
<tr>
<td></td>
<td>User IP address userIpAddress 1.3.6.1.4.1.14823.2.2.1.1.2.1.1.1</td>
</tr>
<tr>
<td></td>
<td>User Physical address userPhysAddress 1.3.6.1.4.1.14823.2.2.1.1.2.1.1.2</td>
</tr>
<tr>
<td></td>
<td>User Name userName 1.3.6.1.4.1.14823.2.2.1.1.2.1.1.3</td>
</tr>
<tr>
<td></td>
<td>User Role userRole 1.3.6.1.4.1.14823.2.2.1.1.2.1.1.4</td>
</tr>
<tr>
<td></td>
<td>User up time userUpTime 1.3.6.1.4.1.14823.2.2.1.1.2.1.1.5</td>
</tr>
<tr>
<td></td>
<td>User Authentication method userAuthenticationMethod 1.3.6.1.4.1.14823.2.2.1.1.2.1.1.6</td>
</tr>
<tr>
<td></td>
<td>User Location userLocation 1.3.6.1.4.1.14823.2.2.1.1.2.1.1.7</td>
</tr>
<tr>
<td></td>
<td>User Authentication Server Name userServerName 1.3.6.1.4.1.14823.2.2.1.1.2.1.1.8</td>
</tr>
<tr>
<td></td>
<td>Connected VLAN userConnectedVlan 1.3.6.1.4.1.14823.2.2.1.1.2.1.1.9</td>
</tr>
<tr>
<td></td>
<td>Connected to A5000 slot number userConnectedSlot 1.3.6.1.4.1.14823.2.2.1.1.2.1.1.10</td>
</tr>
<tr>
<td></td>
<td>Connected to A5000 port userConnectedPort 1.3.6.1.4.1.14823.2.2.1.1.2.1.1.11</td>
</tr>
<tr>
<td></td>
<td>Bandwidth contract name userBWContractName 1.3.6.1.4.1.14823.2.2.1.1.2.1.1.12</td>
</tr>
<tr>
<td></td>
<td>Bandwidth contract usage userBWContractUsage 1.3.6.1.4.1.14823.2.2.1.1.2.1.1.13</td>
</tr>
</tbody>
</table>
### Table 1-1  Aruba Switch MIB Tables (Continued)

<table>
<thead>
<tr>
<th>Table Name/OID</th>
<th>Description/OID</th>
</tr>
</thead>
<tbody>
<tr>
<td>wlsxSwitchStationMgmtTable 1.3.6.1.4.1.14823.2.2.1.1.2.2.1</td>
<td>This table contains the following fields about each station that is associated to an AP in the system:</td>
</tr>
<tr>
<td></td>
<td>• Station management entry wlsxSwitchStationMgmtEntry 1.3.6.1.4.1.14823.2.2.1.1.2.2.1</td>
</tr>
<tr>
<td></td>
<td>• Physical address of the station staPhyAddress 1.3.6.1.4.1.14823.2.2.1.1.2.2.1.1</td>
</tr>
<tr>
<td></td>
<td>• Access Point BSSID staAccessPointSSID 1.3.6.1.4.1.14823.2.2.1.1.2.2.1.2</td>
</tr>
<tr>
<td></td>
<td>• Station User Name staUserName 1.3.6.1.4.1.14823.2.2.1.1.2.2.1.3</td>
</tr>
<tr>
<td></td>
<td>• Station User role staUserRole 1.3.6.1.4.1.14823.2.2.1.1.2.2.1.4</td>
</tr>
<tr>
<td></td>
<td>• Station Association ID staAssociationID 1.3.6.1.4.1.14823.2.2.1.1.2.2.1.5</td>
</tr>
<tr>
<td></td>
<td>• Station Access point ESSID staAccessPointESSID 1.3.6.1.4.1.14823.2.2.1.1.2.2.1.6</td>
</tr>
<tr>
<td></td>
<td>This gives the value of the total number of access points connected to this WLAN switch.</td>
</tr>
<tr>
<td>wlsxSwitchTotalNumAccessPoints 1.3.6.1.4.1.14823.2.2.1.1.3.1</td>
<td>This gives the total number of stations associated to this WLAN switch.</td>
</tr>
</tbody>
</table>
### Table 1-1  Aruba Switch MIB Tables (Continued)

<table>
<thead>
<tr>
<th>Table Name/OID</th>
<th>Description/OID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local AP table wlsxSwitchAccessPointTable 1.3.6.1.4.1.14823.2.2.1.1.3.3</td>
<td>This table contains the following fields about all the Access Points in the system that are connected to this Aruba WLAN switch:</td>
</tr>
<tr>
<td></td>
<td>- List of all the APs connected to this A5000 wlsxSwitchAccessPointTable 1.3.6.1.4.1.14823.2.2.1.1.3.3</td>
</tr>
<tr>
<td></td>
<td>- Station Management Entry wlsxSwitchAccessPointEntry 1.3.6.1.4.1.14823.2.2.1.1.3.3.1</td>
</tr>
<tr>
<td></td>
<td>- BSSID apBSSID 1.3.6.1.4.1.14823.2.2.1.1.3.3.1.1</td>
</tr>
<tr>
<td></td>
<td>- ESSID apESSID 1.3.6.1.4.1.14823.2.2.1.1.3.3.1.2</td>
</tr>
<tr>
<td></td>
<td>- Slot on the switch through which the AP is connected apSlot 1.3.6.1.4.1.14823.2.2.1.1.3.3.1.3</td>
</tr>
<tr>
<td></td>
<td>- Port to which the AP is connected apPort 1.3.6.1.4.1.14823.2.2.1.1.3.3.1.4</td>
</tr>
<tr>
<td></td>
<td>- IP Address apIpAddress 1.3.6.1.4.1.14823.2.2.1.1.3.3.1.5</td>
</tr>
<tr>
<td></td>
<td>- Layer one protocol support apPhyType 1.3.6.1.4.1.14823.2.2.1.1.3.3.1.6</td>
</tr>
<tr>
<td></td>
<td>- AP or AM DeviceType apType 1.3.6.1.4.1.14823.2.2.1.1.3.3.1.7</td>
</tr>
<tr>
<td></td>
<td>- Current Channel apCurrentChannel 1.3.6.1.4.1.14823.2.2.1.1.3.3.1.8</td>
</tr>
<tr>
<td></td>
<td>- Location apLocation 1.3.6.1.4.1.14823.2.2.1.1.3.3.1.9</td>
</tr>
<tr>
<td></td>
<td>- Total Up time apTotalTime 1.3.6.1.4.1.14823.2.2.1.1.3.3.1.10</td>
</tr>
<tr>
<td></td>
<td>- Inactive time apInactiveTime 1.3.6.1.4.1.14823.2.2.1.1.3.3.1.11</td>
</tr>
<tr>
<td></td>
<td>- Whether the AP is load balancing or not apLoadBalancing 1.3.6.1.4.1.14823.2.2.1.1.3.3.1.12</td>
</tr>
</tbody>
</table>
**TABLE 1-1  Aruba Switch MIB Tables (Continued)**

<table>
<thead>
<tr>
<th>Table Name/OID</th>
<th>Description/OID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Global AP table wlsxSwitchGlobalAP Table 1.3.6.1.4.1.14823.2.2.1.1.3.4</td>
<td>This table lists all the Access Points connected in the switch domain. (Table applies only to master switches.) It includes:</td>
</tr>
<tr>
<td></td>
<td>■ Station Management Entry wlsxSwitchGlobalAPEntry 1.3.6.1.4.1.14823.2.2.1.1.3.4.1</td>
</tr>
<tr>
<td></td>
<td>■ Location globalAPLocation 1.3.6.1.4.1.14823.2.2.1.1.3.4.1.1</td>
</tr>
<tr>
<td></td>
<td>■ IP Address globalAPAddress 1.3.6.1.4.1.14823.2.2.1.1.3.4.1.2</td>
</tr>
<tr>
<td></td>
<td>■ Local switch IP address globalAPLocalSwitch 1.3.6.1.4.1.14823.2.2.1.1.3.4.1.3</td>
</tr>
<tr>
<td></td>
<td>■ 802.11a MAC address globalAPdot11aPhyAddr 1.3.6.1.4.1.14823.2.2.1.1.3.4.1.4</td>
</tr>
<tr>
<td></td>
<td>■ 802.11b MAC address globalAPdot11bPhyAddr 1.3.6.1.4.1.14823.2.2.1.1.3.4.1.5</td>
</tr>
<tr>
<td></td>
<td>■ AP State globalAPState 1.3.6.1.4.1.14823.2.2.1.1.3.4.1.6</td>
</tr>
<tr>
<td></td>
<td>■ 802.11g MAC address globalAPdot11gPhyAddr 1.3.6.1.4.1.14823.2.2.1.1.3.4.1.7</td>
</tr>
</tbody>
</table>
### Table 1-1  Aruba Switch MIB Tables (Continued)

<table>
<thead>
<tr>
<th>Table Name/OID</th>
<th>Description/OID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Station Statistics</td>
<td>This Table lists the statistics of all the wireless stations associated with the Access points connected to this switch.</td>
</tr>
<tr>
<td>wlsxSwitchStationStatsTable</td>
<td></td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.2.1.1.2.3</td>
<td></td>
</tr>
<tr>
<td>wlsxSwitchStationStatsEntry</td>
<td></td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.2.1.1.2.3.1.1</td>
<td></td>
</tr>
<tr>
<td>Packets Transmitted</td>
<td></td>
</tr>
<tr>
<td>staTxPackets</td>
<td></td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.2.1.1.2.3.1.1</td>
<td></td>
</tr>
<tr>
<td>Bytes Transmitted</td>
<td></td>
</tr>
<tr>
<td>staTxBytes</td>
<td></td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.2.1.1.2.3.1.2</td>
<td></td>
</tr>
<tr>
<td>Packets Received</td>
<td></td>
</tr>
<tr>
<td>staRxPackets</td>
<td></td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.2.1.1.2.3.1.3</td>
<td></td>
</tr>
<tr>
<td>Bytes Received</td>
<td></td>
</tr>
<tr>
<td>staRxBytes</td>
<td></td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.2.1.1.2.3.1.4</td>
<td></td>
</tr>
<tr>
<td>Bandwidth Rate (in Kbps)</td>
<td></td>
</tr>
<tr>
<td>staBwRate</td>
<td></td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.2.1.1.2.3.1.5</td>
<td></td>
</tr>
<tr>
<td>Frame Rate (retry)</td>
<td></td>
</tr>
<tr>
<td>staFrameRetryRate</td>
<td></td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.2.1.1.2.3.1.6</td>
<td></td>
</tr>
<tr>
<td>Frame Rate (Low Speed)</td>
<td></td>
</tr>
<tr>
<td>staFrameRetryRate</td>
<td></td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.2.1.1.2.3.1.7</td>
<td></td>
</tr>
<tr>
<td>Frame Rate (non unicast packet)</td>
<td></td>
</tr>
<tr>
<td>staFrameNonUnicastRate</td>
<td></td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.2.1.1.2.3.1.8</td>
<td></td>
</tr>
<tr>
<td>Frame Rate (Fragmentation)</td>
<td></td>
</tr>
<tr>
<td>staFrameFragmentationRate</td>
<td></td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.2.1.1.2.3.1.9</td>
<td></td>
</tr>
<tr>
<td>Frame Rate (Recieve Error)</td>
<td></td>
</tr>
<tr>
<td>staFrameReceiveErrorRate</td>
<td></td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.2.1.1.2.3.1.10</td>
<td></td>
</tr>
</tbody>
</table>
TABLE 1-1  Aruba Switch MIB Tables (Continued)

<table>
<thead>
<tr>
<th>Table Name/OID</th>
<th>Description/OID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local AP Statistics</td>
<td>This table lists the statistics for all of the APs connected to this switch. It includes:</td>
</tr>
<tr>
<td>wlsxSwitchAccessPointStatsTable 1.3.6.1.4.1.14823.2.2.1.1.3.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ AP statistics entry wlsxSwitchAccessPointStatsEntry 1.3.6.1.4.1.14823.2.2.1.1.3.5.1</td>
</tr>
<tr>
<td></td>
<td>▪ Channel AP is using apStatsChannel 1.3.6.1.4.1.14823.2.2.1.1.3.5.1.1</td>
</tr>
<tr>
<td></td>
<td>▪ Bandwidth rate (in Kbps) of the channel apChannelBwRate 1.3.6.1.4.1.14823.2.2.1.1.3.5.1.2</td>
</tr>
<tr>
<td></td>
<td>▪ Frame Retry Rate apChannelFrameRetryRate 1.3.6.1.4.1.14823.2.2.1.1.3.5.1.3</td>
</tr>
<tr>
<td></td>
<td>▪ Frame Low Speed Rate apChannelFrameLowSpeedRate 1.3.6.1.4.1.14823.2.2.1.1.3.5.1.4</td>
</tr>
<tr>
<td></td>
<td>▪ Frame non Unicast Packet Rate apChannelFrameNonUnicastRate 1.3.6.1.4.1.14823.2.2.1.1.3.5.1.5</td>
</tr>
<tr>
<td></td>
<td>▪ Frame Fragmentation Rate apChannelFrameFragmentationRate 1.3.6.1.4.1.14823.2.2.1.1.3.5.1.6</td>
</tr>
<tr>
<td></td>
<td>▪ Frame Receive Error Rate apChannelFrameReceiveErrorRate 1.3.6.1.4.1.14823.2.2.1.1.3.5.1.7</td>
</tr>
<tr>
<td></td>
<td>▪ Total Packets Transmitted on this BSSID apBSSTxPackets 1.3.6.1.4.1.14823.2.2.1.1.3.5.1.8</td>
</tr>
<tr>
<td></td>
<td>▪ Total Bytes Transmitted on this BSSID apBSSTxBytes 1.3.6.1.4.1.14823.2.2.1.1.3.5.1.9</td>
</tr>
<tr>
<td></td>
<td>▪ Total Packets Received on this BSSID apBSSRxPackets 1.3.6.1.4.1.14823.2.2.1.1.3.5.1.10</td>
</tr>
<tr>
<td></td>
<td>▪ Total Bytes Received on this BSSID apBSSRxBytes 1.3.6.1.4.1.14823.2.2.1.1.3.5.1.11</td>
</tr>
<tr>
<td></td>
<td>▪ Bandwidth Rate (in Kbps) on this BSSID apBSSBwRate 1.3.6.1.4.1.14823.2.2.1.1.3.5.1.12</td>
</tr>
<tr>
<td>Table Name/OID</td>
<td>Description/OID</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Frame Retry Rate on this BSSID</td>
<td>1.3.6.1.4.1.14823.2.2.1.1.3.5.1.13</td>
</tr>
<tr>
<td>Frame Low Speed Rate on this BSSID</td>
<td>1.3.6.1.4.1.14823.2.2.1.1.3.5.1.14</td>
</tr>
<tr>
<td>Frame non Unicast Packet Rate on this BSSID</td>
<td>1.3.6.1.4.1.14823.2.2.1.1.3.5.1.15</td>
</tr>
<tr>
<td>Frame Fragmentation Rate on this BSSID</td>
<td>1.3.6.1.4.1.14823.2.2.1.1.3.5.1.16</td>
</tr>
<tr>
<td>Frame Receive Error Rate on this BSSID</td>
<td>1.3.6.1.4.1.14823.2.2.1.1.3.5.1.17</td>
</tr>
</tbody>
</table>

Switch Traps

1. **wlsxSwitchTraps**
   1.3.6.1.4.1.14823.2.2.1.1.100

This group includes all the switch traps. It includes:

- All switch traps
  wlsxSwitchTrapObjectsGroup
  1.3.6.1.4.1.14823.2.2.1.1.100.100

- Authentication server name
  wlsxAuthServerName
  1.3.6.1.4.1.14823.2.2.1.1.100.100.1

- Authentication server timeout
  wlsxAuthServerTimeout
  1.3.6.1.4.1.14823.2.2.1.1.100.100.2

- Failed fan
  wlsxFanNumber
  1.3.6.1.4.1.14823.2.2.1.1.100.100.4

- Line card present
  wlsxLineCardNumber
  1.3.6.1.4.1.14823.2.2.1.1.100.100.5

- Voltage type
  wlsxVoltageType
  1.3.6.1.4.1.14823.2.2.1.1.100.100.6

- Voltage value
  wlsxVoltageValue
  1.3.6.1.4.1.14823.2.2.1.1.100.100.7
### Table 1-1  Aruba Switch MIB Tables (Continued)

<table>
<thead>
<tr>
<th>Table Name/OID</th>
<th>Description/OID</th>
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<tbody>
<tr>
<td>Temperature</td>
<td>wlsxTemperatureValue 1.3.6.1.4.1.14823.2.2.1.1.100.100.8</td>
</tr>
<tr>
<td>The name of a process</td>
<td>wlsxProcessName 1.3.6.1.4.1.14823.2.2.1.1.100.100.9</td>
</tr>
<tr>
<td>Physical address of the station</td>
<td>lsxStationMacAddress 1.3.6.1.4.1.14823.2.2.1.1.100.100.10</td>
</tr>
<tr>
<td>Reason a station is black listed</td>
<td>wlsxStationBlackListReason 1.3.6.1.4.1.14823.2.2.1.1.100.100.11</td>
</tr>
<tr>
<td>A spoofed IP address</td>
<td>wlsxSpoofedIpAddress 1.3.6.1.4.1.14823.2.2.1.1.100.100.12</td>
</tr>
<tr>
<td>An old MAC address</td>
<td>wlsxSpoofedOldPhyAddress 1.3.6.1.4.1.14823.2.2.1.1.100.100.13</td>
</tr>
<tr>
<td>A new MAC address</td>
<td>wlsxSpoofedNewPhyAddress 1.3.6.1.4.1.14823.2.2.1.1.100.100.14</td>
</tr>
<tr>
<td>Database name</td>
<td>wlsxDBName 1.3.6.1.4.1.14823.2.2.1.1.100.100.15</td>
</tr>
<tr>
<td>Database user name</td>
<td>wlsxDBUserName 1.3.6.1.4.1.14823.2.2.1.1.100.100.16</td>
</tr>
<tr>
<td>Database IP address</td>
<td>wlsxDBIpAddress 1.3.6.1.4.1.14823.2.2.1.1.100.100.17</td>
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<tr>
<td>Port address of the user</td>
<td>wlsxDBType 1.3.6.1.4.1.14823.2.2.1.1.100.100.18</td>
</tr>
<tr>
<td>Virtual Router Identifier</td>
<td>wlsxVrID 1.3.6.1.4.1.14823.2.2.1.1.100.100.19</td>
</tr>
<tr>
<td>Master switch IP address</td>
<td>wlsxVrM asterlp 1.3.6.1.4.1.14823.2.2.1.1.100.100.20</td>
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### Table 1-1  Aruba Switch MIB Tables (Continued)

<table>
<thead>
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<th>Table Name/OID</th>
<th>Description/OID</th>
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<tr>
<td>VRRP status</td>
<td>wlsxVrrpOperState 1.3.6.1.4.1.14823.2.2.1.1.100.100.21</td>
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<tr>
<td>AP transmit power</td>
<td>wlsxApTxPower 1.3.6.1.4.1.14823.2.2.1.1.100.100.22</td>
</tr>
<tr>
<td>Grid Service Interface server group name</td>
<td>wlsxESIServerGrpName 1.3.6.1.4.1.14823.2.2.1.1.100.100.23</td>
</tr>
<tr>
<td>Grid Service Interface server name</td>
<td>wlsxESIServerName 1.3.6.1.4.1.14823.2.2.1.1.100.100.24</td>
</tr>
<tr>
<td>Grid Service Interface server IP address</td>
<td>wlsxESIServerIpaddress 1.3.6.1.4.1.14823.2.2.1.1.100.100.25</td>
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<tr>
<td>Aruba Switch Trap Object Identifiers</td>
<td></td>
</tr>
<tr>
<td>This table shows the OIDs for the traps sent out by the switch.</td>
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</table>

#### Table 1-2  Switch Trap Object Identifiers

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<tr>
<th>Object Name by Table</th>
<th>Object ID</th>
</tr>
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<tbody>
<tr>
<td>wlsxSwitchIPChanged</td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1001</td>
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<tr>
<td>wlsxSwitchRoleChange</td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1002</td>
</tr>
<tr>
<td>wlsxUserEntryCreated</td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1003</td>
</tr>
<tr>
<td>wlsxUserEntryDeleted</td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1004</td>
</tr>
<tr>
<td>wlsxUserEntryAuthenticated</td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1005</td>
</tr>
<tr>
<td>wlsxUserEntryDeAuthenticated</td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1006</td>
</tr>
<tr>
<td>wlsxUserAuthenticationFailed</td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1007</td>
</tr>
<tr>
<td>wlsxAuthServiceReqTimedOut</td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1008</td>
</tr>
<tr>
<td>wlsxAuthServiceTimedOut</td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1009</td>
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<tr>
<td>wlsxAuthServiceIsUp</td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1010</td>
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<td>wlsxAuthMaxUserEntries</td>
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<td>wlsxAuthMaxAclEntries</td>
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### Switch Trap Object Identifiers (Continued)

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<tr>
<th>Object Name by Table</th>
<th>Object ID</th>
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<td><code>wlsxAuthMaxBWContracts</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1013</td>
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<td><code>wlsxPowerSupplyFailure</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1014</td>
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<tr>
<td><code>wlsxFanFailure</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1015</td>
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<tr>
<td><code>wlsxOutOfRangeVoltage</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1016</td>
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<tr>
<td><code>wlsxOutOfRangeTemperature</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1017</td>
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<td><code>wlsxLCInserted</code></td>
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<tr>
<td><code>wlsxSCInserted</code></td>
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<tr>
<td><code>wlsxGBICInserted</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1020</td>
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<tr>
<td><code>wlsxProcessDied</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1021</td>
</tr>
<tr>
<td><code>wlsxProcessExceedsMemoryLimits</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1022</td>
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<tr>
<td><code>wlsxLowOnFlashSpace</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1023</td>
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<tr>
<td><code>wlsxLowMemory</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1024</td>
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<tr>
<td><code>wlsxFanTrayRemoved</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1025</td>
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<td><code>wlsxFanTrayInserted</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1026</td>
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<tr>
<td><code>wlsxLCRemoved</code></td>
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<tr>
<td><code>wlsxSCRemoved</code></td>
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<td><code>wlsxPowerSupplyMissing</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1029</td>
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<tr>
<td><code>wlsxAccessPointIsUp</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1030</td>
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<tr>
<td><code>wlsxAccessPointIsDown</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1031</td>
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<tr>
<td><code>wlsxCoverageHoleDetected</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1032</td>
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<tr>
<td><code>wlsxChannelChanged</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1033</td>
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<tr>
<td><code>wlsxStationAddedToBlackList</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1034</td>
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<td><code>wlsxStationRemovedFromBlackList</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1035</td>
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<td><code>wlsxIpSpoofingDetected</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1036</td>
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<td><code>wlsxDBCcommunicationFailure</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1037</td>
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<td><code>wlsxVrrpStateChanged</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1038</td>
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<tr>
<td><code>wlsxAPRadioAttributesChanged</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1039</td>
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<tr>
<td><code>wlsxESIServerUp</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1040</td>
</tr>
<tr>
<td><code>wlsxESIServerDown</code></td>
<td>1.3.6.1.4.1.14823.2.2.1.1.100.1041</td>
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Managing Aruba Grid Points

The data to monitor an individual Grid or Access Point (AP) are contained in the aruba-ap MIB file, and are explained in Table 1-3.

Table 1-3  Aruba AP MIB Tables

<table>
<thead>
<tr>
<th>Table Name/OID</th>
<th>Description/OID</th>
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<tr>
<td>AP Configuration</td>
<td>This field lists all the information used to configure an AP, including:</td>
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<tr>
<td>wlsrConfigTable</td>
<td>A Wi-Fi configuration entry</td>
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<td></td>
<td>AP BSSID</td>
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<tr>
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<td>wlsrBSSID 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.1</td>
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<tr>
<td></td>
<td>AP ESSID</td>
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<td></td>
<td>Mode</td>
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<td>wlsrMode 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.3</td>
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<td>Current channel</td>
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<td>Transmit power</td>
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<td>wlsrTxPower 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.5</td>
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<td>Minimum MPDU</td>
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<td>wlsrRTSThreshold 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.6</td>
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<td>Maximum number of transmission attempts</td>
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<td>wlsrRetryLimit 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.7</td>
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<td>Preamble type used by Wi-Fi interface</td>
</tr>
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<tr>
<td></td>
<td>Number of transmission units used for beacons</td>
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<td>wlsrBeaconInterval 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.9</td>
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<td>Power management setting</td>
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<td>Load balancing setting</td>
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<td>wlsrLoadBalance 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.11</td>
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<td>Transmit rates supported</td>
</tr>
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<td>wlsrSupportedRates 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.12</td>
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<td>Beacon interval specifier</td>
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<td>wlsrDTIM Period 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.13</td>
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<tr>
<td>Table Name/OID</td>
<td>Description/OID</td>
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<td>Local switch IP address</td>
<td>wlsrLMAddress 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.14</td>
</tr>
<tr>
<td>Type of encryption used on Wi-Fi interface</td>
<td>wlsrEncryption 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.15</td>
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<td>Status of the Wi-Fi interface</td>
<td>wlsrStatus 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.17</td>
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<td>Ageout value in seconds</td>
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</tr>
<tr>
<td>Maximum Transmission Unit of Wi-Fi interface</td>
<td>wlsrMTU 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.19</td>
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<tr>
<td>AP locations</td>
<td>wlsrLocation 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.20</td>
</tr>
<tr>
<td>Indicates if SSID is hidden or not</td>
<td>wlsrHideSSID 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.21</td>
</tr>
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<td>Broadcasting is disabled</td>
<td>wlsrDenyBroadcast 1.3.6.1.4.1.14823.2.3.1.1.1.1.22</td>
</tr>
<tr>
<td>Mode of the Wi-Fi interface</td>
<td>wlsrBGmode 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.23</td>
</tr>
<tr>
<td>Card type in an A5000</td>
<td>wlsrCardType 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.24</td>
</tr>
<tr>
<td>Registration domain</td>
<td>wlsrRegDomain 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.25</td>
</tr>
<tr>
<td>Country code</td>
<td>wlsrCountryCode 1.3.6.1.4.1.14823.2.3.1.1.1.1.1.26</td>
</tr>
</tbody>
</table>
This field contains all the aggregate statistics collected on each channel. It includes:

- The channel statistics table
  1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1
- Channel frequency stats apply to
  1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.1
- Number of APs on this channel
  1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.2
- Number of stations on this channel
  1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.3
- Total packets sent on this channel
  1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.4
- Total bytes sent on this channel
  1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.5
- Total retry packets
  1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.6
- Total fragmented packets
  1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.7
- Total physical error packets
  1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.8
- Total MAC error packets
  1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.9
- Frame error rate
  1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.10
- Frame retry rate
  1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.11

<table>
<thead>
<tr>
<th>Table Name/OID</th>
<th>Description/OID</th>
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<tbody>
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<td>This field contains all the aggregate statistics collected on each channel. It includes:</td>
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<td>w lsrChStatsTotPkts 1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.4</td>
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</tr>
<tr>
<td>w lsrChStatsTotBytes 1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.5</td>
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</tr>
<tr>
<td>w lsrChStatsTotRetryPkts 1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.6</td>
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<td>w lsrChStatsTotFragmentedPkts 1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.7</td>
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### Table 1-3  Aruba AP MIB Tables (Continued)

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<th>Description/OID</th>
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<tbody>
<tr>
<td>Frame low speed error rate</td>
<td>wlsrChStatsFrameLowSpeedRate 1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.12</td>
</tr>
<tr>
<td>Frame non unicast rate</td>
<td>wlsrChStatsFrameNonUnicastRate 1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.13</td>
</tr>
<tr>
<td>Frame bandwidth rate</td>
<td>wlsrChStatsFrameBandwidthRate 1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.14</td>
</tr>
<tr>
<td>Frame fragmentation rate</td>
<td>wlsrChStatsFrameFragmentationRate 1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.15</td>
</tr>
<tr>
<td>Time (in ticks) that this channel has been observed</td>
<td>wlsrChStatsMonitoredTime 1.3.6.1.4.1.14823.2.3.1.1.3.3.1.1.16</td>
</tr>
<tr>
<td>Channel packet and byte counts</td>
<td>This table contains the channel statistics observed into different rate categories. This table includes:</td>
</tr>
<tr>
<td>wlsrChannelRateStatsTable 1.3.6.1.4.1.14823.2.3.1.1.3.3.2</td>
<td></td>
</tr>
<tr>
<td>Channel rate statistics</td>
<td>wlsrChannelRateStatsEntry 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1</td>
</tr>
<tr>
<td>Total packets observed on this channel at 1 Mbps</td>
<td>wlsrChStatsTotPktsAt1Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.1</td>
</tr>
<tr>
<td>Total bytes observed on this channel at 1 Mbps</td>
<td>wlsrChStatsTotBytesAt1Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.2</td>
</tr>
<tr>
<td>Total packets observed on this channel at 2 Mbps</td>
<td>wlsrChStatsTotPktsAt2Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.3</td>
</tr>
<tr>
<td>Total bytes observed on this channel at 2 Mbps</td>
<td>wlsrChStatsTotBytesAt2Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.4</td>
</tr>
<tr>
<td>Total packets observed on this channel at 5 Mbps</td>
<td>wlsrChStatsTotPktsAt5Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.5</td>
</tr>
<tr>
<td>Total bytes observed on this channel at 5 Mbps</td>
<td>wlsrChStatsTotBytesAt5Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.6</td>
</tr>
<tr>
<td>Table Name/OID</td>
<td>Description/OID</td>
</tr>
<tr>
<td>---------------</td>
<td>----------------</td>
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<tr>
<td>Total packets observed on this channel at 11Mbps</td>
<td>wlsrChStatsTotPktsAt11Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.7</td>
</tr>
<tr>
<td>Total bytes observed on this channel at 11Mbps</td>
<td>wlsrChStatsTotBytesAt11Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.8</td>
</tr>
<tr>
<td>Total packets observed on this channel at 6Mbps</td>
<td>wlsrChStatsTotPktsAt6Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.9</td>
</tr>
<tr>
<td>Total bytes observed on this channel at 6Mbps</td>
<td>wlsrChStatsTotBytesAt6Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.10</td>
</tr>
<tr>
<td>Total packets observed on this channel at 12Mbps</td>
<td>wlsrChStatsTotPktsAt12Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.11</td>
</tr>
<tr>
<td>Total bytes observed on this channel at 12Mbps</td>
<td>wlsrChStatsTotBytesAt12Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.12</td>
</tr>
<tr>
<td>Total packets observed on this channel at 18Mbps</td>
<td>wlsrChStatsTotPktsAt18Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.13</td>
</tr>
<tr>
<td>Total bytes observed on this channel at 18Mbps</td>
<td>wlsrChStatsTotBytesAt18Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.14</td>
</tr>
<tr>
<td>Total packets observed on this channel at 24Mbps</td>
<td>wlsrChStatsTotPktsAt24Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.15</td>
</tr>
<tr>
<td>Total bytes observed on this channel at 24Mbps</td>
<td>wlsrChStatsTotBytesAt24Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.16</td>
</tr>
<tr>
<td>Total packets observed on this channel at 36Mbps</td>
<td>wlsrChStatsTotPktsAt36Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.17</td>
</tr>
<tr>
<td>Total bytes observed on this channel at 36Mbps</td>
<td>wlsrChStatsTotBytesAt36Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.18</td>
</tr>
<tr>
<td>Total packets observed on this channel at 48Mbps</td>
<td>wlsrChStatsTotPktsAt48Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.19</td>
</tr>
</tbody>
</table>
### Table 1-3  Aruba AP MIB Tables (Continued)

<table>
<thead>
<tr>
<th>Table Name/OID</th>
<th>Description/OID</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total bytes observed on this channel at 48M bp</strong></td>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.20</td>
</tr>
<tr>
<td><strong>Total packets observed on this channel at 54M bps</strong></td>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.21</td>
</tr>
<tr>
<td><strong>Total bytes observed on this channel at 54M bps</strong></td>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.3.2.1.22</td>
</tr>
</tbody>
</table>

This table breaks down the channel statistics observed based on the Destination Address Types. This table includes:

- **Channel statistics**
  - 1.3.6.1.4.1.14823.2.3.1.1.3.3.3.1
- **Broadcast packets observed**
  - 1.3.6.1.4.1.14823.2.3.1.1.3.3.3.1.1
- **Broadcast bytes observed**
  - 1.3.6.1.4.1.14823.2.3.1.1.3.3.3.1.2
- **Multicast packets observed**
  - 1.3.6.1.4.1.14823.2.3.1.1.3.3.3.1.3
- **Multicast bytes observed**
  - 1.3.6.1.4.1.14823.2.3.1.1.3.3.3.1.4
- **Unicast packets observed**
  - 1.3.6.1.4.1.14823.2.3.1.1.3.3.3.1.5
- **Unicast bytes observed**
  - 1.3.6.1.4.1.14823.2.3.1.1.3.3.3.1.6
### Table 1-3  Aruba AP MIB Tables (Continued)

<table>
<thead>
<tr>
<th>Table Name/OID</th>
<th>Description/OID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel statistics by packet type wlsrChannelFrame TypeStatsTable 1.3.6.1.4.1.14823.2.3.1.1.3.3.4</td>
<td>This table breaks down the channel statistics observed based on the Type of the Packet. This table includes:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Frame type statistics wlsrChannelFrameTypeStatsEntry 1.3.6.1.4.1.14823.2.3.1.1.3.3.4.1</td>
</tr>
<tr>
<td></td>
<td>- Total number of management packets observed wlsrChStatsTotMgmtPkts 1.3.6.1.4.1.14823.2.3.1.1.3.3.4.1.1</td>
</tr>
<tr>
<td></td>
<td>- Total number of management bytes observed wlsrChStatsTotMgmtBytes 1.3.6.1.4.1.14823.2.3.1.1.3.3.4.1.2</td>
</tr>
<tr>
<td></td>
<td>- Total number of control packets observed wlsrChStatsTotCtrlPkts 1.3.6.1.4.1.14823.2.3.1.1.3.3.4.1.3</td>
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<tr>
<td></td>
<td>- Total number of control bytes observed wlsrChStatsTotCtrlBytes 1.3.6.1.4.1.14823.2.3.1.1.3.3.4.1.4</td>
</tr>
<tr>
<td></td>
<td>- Total number of data packets observed wlsrChStatsTotDataPkts 1.3.6.1.4.1.14823.2.3.1.1.3.3.4.1.5</td>
</tr>
<tr>
<td></td>
<td>- Total number of data bytes observed wlsrChStatsTotDataBytes 1.3.6.1.4.1.14823.2.3.1.1.3.3.4.1.6</td>
</tr>
</tbody>
</table>
### Table 1-3  Aruba AP MIB Tables (Continued)

<table>
<thead>
<tr>
<th>Table Name/OID</th>
<th>Description/OID</th>
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</thead>
<tbody>
<tr>
<td>Channel statistics broken out into packets</td>
<td><strong>This table breaks down observed channel statistics into packet size buckets. This table includes:</strong></td>
</tr>
<tr>
<td>wlsrChannelPktSizeStatsTable</td>
<td>- Channel statistics based on packet size</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.3.5</td>
<td>- Packets less than 64 bytes long</td>
</tr>
<tr>
<td></td>
<td>wlsrChStatsPkts63Bytes 1.3.6.1.4.1.14823.2.3.1.1.3.3.5.1</td>
</tr>
<tr>
<td></td>
<td>- Packets between 64 and 127 bytes long</td>
</tr>
<tr>
<td></td>
<td>wlsrChStatsPkts64To127 1.3.6.1.4.1.14823.2.3.1.1.3.3.5.2</td>
</tr>
<tr>
<td></td>
<td>- Packets between 128 and 255 bytes long</td>
</tr>
<tr>
<td></td>
<td>wlsrChStatsPkts128To255 1.3.6.1.4.1.14823.2.3.1.1.3.3.5.3</td>
</tr>
<tr>
<td></td>
<td>- Packets between 256 and 511 bytes long</td>
</tr>
<tr>
<td></td>
<td>wlsrChStatsPkts256To511 1.3.6.1.4.1.14823.2.3.1.1.3.3.5.4</td>
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<tr>
<td></td>
<td>- Packets between 512 and 1023 bytes long</td>
</tr>
<tr>
<td></td>
<td>wlsrChStatsPkts512To1023 1.3.6.1.4.1.14823.2.3.1.1.3.3.5.5</td>
</tr>
<tr>
<td></td>
<td>- Packets between 1024 and 1518 bytes long</td>
</tr>
<tr>
<td></td>
<td>wlsrChStatsPkts1024To1518 1.3.6.1.4.1.14823.2.3.1.1.3.3.5.6</td>
</tr>
<tr>
<td>Station statistics</td>
<td><strong>Contains all the Aggregate statistics collected for a Station. This table includes:</strong></td>
</tr>
<tr>
<td>wlsrStaStatsTable</td>
<td>- Station statistics</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.3.4.1</td>
<td>wlsrStaStatsEntry 1.3.6.1.4.1.14823.2.3.1.1.3.3.4.1.1</td>
</tr>
<tr>
<td></td>
<td>- Station MAC address</td>
</tr>
<tr>
<td></td>
<td>wlsrStaAddress 1.3.6.1.4.1.14823.2.3.1.1.3.3.4.1.1.1</td>
</tr>
<tr>
<td></td>
<td>- Total number of packets sent to the station</td>
</tr>
<tr>
<td></td>
<td>wlsrStaTxPkts 1.3.6.1.4.1.14823.2.3.1.1.3.3.4.1.1.2</td>
</tr>
<tr>
<td></td>
<td>- Total number of bytes sent to the station</td>
</tr>
<tr>
<td></td>
<td>wlsrStaTxBytes 1.3.6.1.4.1.14823.2.3.1.1.3.3.4.1.1.3</td>
</tr>
<tr>
<td></td>
<td>- Total number of packets received from the station</td>
</tr>
<tr>
<td></td>
<td>wlsrStaRxPkts 1.3.6.1.4.1.14823.2.3.1.1.3.3.4.1.1.4</td>
</tr>
<tr>
<td>Table Name/OID</td>
<td>Description/OID</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>wlsrStaRxBytes</td>
<td>Total number of bytes received from the station</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.1.1.5</td>
<td></td>
</tr>
<tr>
<td>wlsrStaTxRetryPkts</td>
<td>Total number of retry packets sent to the station</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.1.1.6</td>
<td></td>
</tr>
<tr>
<td>wlsrStaRxRetryPkts</td>
<td>Total number of retry packets received from the station</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.1.1.7</td>
<td></td>
</tr>
<tr>
<td>wlsrStaTxFragmentedPkts</td>
<td>Total number of fragmented packets sent to the station</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.1.1.8</td>
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</tr>
<tr>
<td>wlsrStaRxFragmentedPkts</td>
<td>Total number of fragmented packets received from the station</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.1.1.9</td>
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</tr>
<tr>
<td>wlsrStaReceiveErrPkts</td>
<td>Total number of error packets received from the station</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.1.1.10</td>
<td></td>
</tr>
<tr>
<td>wlsrStaTxTotSignal</td>
<td>Total number of error packets sent to the station</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.1.1.11</td>
<td></td>
</tr>
<tr>
<td>wlsrStaTxSignalPkts</td>
<td>Total number of signal packets received from the station</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.1.1.12</td>
<td></td>
</tr>
<tr>
<td>wlsrStaTxCurSignal</td>
<td>Current transmit signal strength of the station</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.1.1.13</td>
<td></td>
</tr>
<tr>
<td>wlsrStaTxHighSignal</td>
<td>High transmit signal strength of the station</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.1.1.14</td>
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</tr>
<tr>
<td>wlsrStaRxTotNoise</td>
<td>Total noise</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.1.1.15</td>
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</tr>
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### Table 1-3  Aruba AP MIB Tables (Continued)

<table>
<thead>
<tr>
<th>Table Name/OID</th>
<th>Description/OID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Received noise</td>
<td>1.3.6.1.4.1.1.4823.2.3.1.1.3.4.1.1.16</td>
</tr>
<tr>
<td>Current noise</td>
<td>1.3.6.1.4.1.1.4823.2.3.1.1.3.4.1.1.17</td>
</tr>
<tr>
<td>High noise</td>
<td>1.3.6.1.4.1.1.4823.2.3.1.1.3.4.1.1.18</td>
</tr>
<tr>
<td>Low noise</td>
<td>1.3.6.1.4.1.1.4823.2.3.1.1.3.4.1.1.19</td>
</tr>
<tr>
<td>Station frame retry rate</td>
<td>1.3.6.1.4.1.1.4823.2.3.1.1.3.4.1.1.20</td>
</tr>
<tr>
<td>Station frame low speed error rate</td>
<td>1.3.6.1.4.1.1.4823.2.3.1.1.3.4.1.1.21</td>
</tr>
<tr>
<td>Station frame non unicast rate</td>
<td>1.3.6.1.4.1.1.4823.2.3.1.1.3.4.1.1.22</td>
</tr>
<tr>
<td>Station frame retry error rate</td>
<td>1.3.6.1.4.1.1.4823.2.3.1.1.3.4.1.1.23</td>
</tr>
<tr>
<td>Station frame bandwidth rate</td>
<td>1.3.6.1.4.1.1.4823.2.3.1.1.3.4.1.1.24</td>
</tr>
<tr>
<td>Station frame fragmentation rate</td>
<td>1.3.6.1.4.1.1.4823.2.3.1.1.3.4.1.1.25</td>
</tr>
<tr>
<td>Station frame high bandwidth rate</td>
<td>1.3.6.1.4.1.1.4823.2.3.1.1.3.4.1.1.26</td>
</tr>
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### Table 1-3  Aruba AP MIB Tables (Continued)

<table>
<thead>
<tr>
<th>Table Name/OID</th>
<th>Description/OID</th>
</tr>
</thead>
<tbody>
<tr>
<td>wlsrStaRateStats Table</td>
<td>This table breaks down the Station statistics into different rate categories. This table includes:</td>
</tr>
<tr>
<td>wlsrStaRateStatsEntry</td>
<td>Rate statistics table</td>
</tr>
<tr>
<td>wlsrStaTxPktsAt1Mbps</td>
<td>Number of packets transmitted at 1Mbps</td>
</tr>
<tr>
<td>wlsrStaTxBytesAt1Mbps</td>
<td>Number of bytes transmitted at 1Mbps</td>
</tr>
<tr>
<td>wlsrStaTxPktsAt2Mbps</td>
<td>Number of packets transmitted at 2Mbps</td>
</tr>
<tr>
<td>wlsrStaTxBytesAt2Mbps</td>
<td>Number of bytes transmitted at 2Mbps</td>
</tr>
<tr>
<td>wlsrStaTxPktsAt5Mbps</td>
<td>Number of packets transmitted at 5Mbps</td>
</tr>
<tr>
<td>wlsrStaTxBytesAt5Mbps</td>
<td>Number of bytes transmitted at 5Mbps</td>
</tr>
<tr>
<td>wlsrStaTxPktsAt11Mbps</td>
<td>Number of packets transmitted at 11Mbps</td>
</tr>
<tr>
<td>wlsrStaTxBytesAt11Mbps</td>
<td>Number of bytes transmitted at 11Mbps</td>
</tr>
<tr>
<td>wlsrStaTxPktsAt6Mbps</td>
<td>Number of packets transmitted at 6Mbps</td>
</tr>
<tr>
<td>wlsrStaTxBytesAt6Mbps</td>
<td>Number of bytes transmitted at 6Mbps</td>
</tr>
<tr>
<td>wlsrStaTxPktsAt12Mbps</td>
<td>Number of packets transmitted at 21Mbps</td>
</tr>
</tbody>
</table>

TABLE 1-3  Aruba AP MIB Tables (Continued)
<table>
<thead>
<tr>
<th>Table Name/OID</th>
<th>Description/OID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of bytes transmitted at 12Mbps</td>
<td>wIsrStaTxBytesAt12Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.12</td>
</tr>
<tr>
<td>Number of packets transmitted at 18Mbps</td>
<td>wIsrStaTxPktsAt18Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.13</td>
</tr>
<tr>
<td>Number of bytes transmitted at 18Mbps</td>
<td>wIsrStaTxBytesAt18Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.14</td>
</tr>
<tr>
<td>Number of packets transmitted at 24Mbps</td>
<td>wIsrStaTxPktsAt24Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.15</td>
</tr>
<tr>
<td>Number of bytes transmitted at 24Mbps</td>
<td>wIsrStaTxBytesAt24Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.16</td>
</tr>
<tr>
<td>Number of packets transmitted at 36Mbps</td>
<td>wIsrStaTxPktsAt36Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.17</td>
</tr>
<tr>
<td>Number of bytes transmitted at 36Mbps</td>
<td>wIsrStaTxBytesAt36Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.18</td>
</tr>
<tr>
<td>Number of packets transmitted at 48Mbps</td>
<td>wIsrStaTxPktsAt48Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.19</td>
</tr>
<tr>
<td>Number of bytes transmitted at 48Mbps</td>
<td>wIsrStaTxBytesAt48Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.20</td>
</tr>
<tr>
<td>Number of packets transmitted at 54Mbps</td>
<td>wIsrStaTxPktsAt54Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.21</td>
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<tr>
<td>Number of bytes transmitted at 54Mbps</td>
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<tr>
<td>Number of packets received at 1Mbps</td>
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<tr>
<td>Number of bytes received at 1Mbps</td>
<td>wIsrStaRxBytesAt1Mbps 1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.24</td>
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### Table 1-3 Aruba AP MIB Tables (Continued)

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<th>Description/OID</th>
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<td>wlsrStaRxPktsAt2Mbps</td>
<td>Number of packets received at 2 Mbps</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.25</td>
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<tr>
<td>wlsrStaRxBytesAt2Mbps</td>
<td>Number of bytes received at 2 Mbps</td>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.26</td>
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</tr>
<tr>
<td>wlsrStaRxPktsAt5Mbps</td>
<td>Number of packets received at 5 Mbps</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.27</td>
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<tr>
<td>wlsrStaRxBytesAt5Mbps</td>
<td>Number of bytes received at 5 Mbps</td>
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<tr>
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<tr>
<td>wlsrStaRxPktsAt11Mbps</td>
<td>Number of packets received at 11 Mbps</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.29</td>
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<tr>
<td>wlsrStaRxBytesAt11Mbps</td>
<td>Number of bytes received at 11 Mbps</td>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.30</td>
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<tr>
<td>wlsrStaRxPktsAt6Mbps</td>
<td>Number of packets received at 6 Mbps</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.31</td>
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<td>wlsrStaRxBytesAt6Mbps</td>
<td>Number of bytes received at 6 Mbps</td>
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<tr>
<td>wlsrStaRxPktsAt12Mbps</td>
<td>Number of packets received at 12 Mbps</td>
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<td>wlsrStaRxBytesAt12Mbps</td>
<td>Number of bytes received at 12 Mbps</td>
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<td>wlsrStaRxPktsAt18Mbps</td>
<td>Number of packets received at 18 Mbps</td>
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<td>wlsrStaRxBytesAt18Mbps</td>
<td>Number of bytes received at 18 Mbps</td>
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<td>wlsrStaRxPktsAt24Mbps</td>
<td>Number of packets received at 24 Mbps</td>
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<td>Description/OID</td>
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<td>-------------------------------------------------------------------------------</td>
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<td>Number of bytes received at 24M bps</td>
<td>wlsrStaRxBytesAt24M bps</td>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.38</td>
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<tr>
<td>Number of packets received at 36M bps</td>
<td>wlsrStaRxPktsAt36M bps</td>
</tr>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.39</td>
</tr>
<tr>
<td>Number of bytes received at 36M bps</td>
<td>wlsrStaRxBytesAt36M bps</td>
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<tr>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.40</td>
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<tr>
<td>Number of packets received at 48M bps</td>
<td>wlsrStaRxPktsAt48M bps</td>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.41</td>
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<td>Number of bytes received at 48M bps</td>
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<td>Number of packets received at 54M bps</td>
<td>wlsrStaRxPktsAt54M bps</td>
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<td>Number of bytes received at 54M bps</td>
<td>wlsrStaRxBytesAt54M bps</td>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.2.1.44</td>
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Station stats by destination address
wlsrStaDATypeStats
Table
1.3.6.1.4.1.14823.2.3.1.1.3.4.3

This table contains all the per channel Packet and Byte Counts but broken down in terms of Destination Address Type. This table includes:

<table>
<thead>
<tr>
<th>Description/OID</th>
</tr>
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<tbody>
<tr>
<td>Number of broadcast packets transmitted by the station</td>
</tr>
<tr>
<td>wlsrStaTxDABroadcastPkts</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.3.1</td>
</tr>
<tr>
<td>Number of broadcast bytes transmitted by the station</td>
</tr>
<tr>
<td>wlsrStaTxDABroadcastBytes</td>
</tr>
<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.3.1.2</td>
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<tr>
<td>Number of multicast packets transmitted by the station</td>
</tr>
<tr>
<td>wlsrStaTxDAMulticastPkts</td>
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<tr>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.3.1.3</td>
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### Table 1-3  Aruba AP MIB Tables (Continued)

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</tr>
<tr>
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<td>w lsrStaTxDAmulticastBytes</td>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.3.1.4</td>
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<tr>
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<td>Number of unicast packets transmitted by the station</td>
</tr>
<tr>
<td></td>
<td>w lsrStaTxDAUnicastPkts</td>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.3.1.5</td>
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<td>Number of unicast bytes transmitted by the station</td>
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<td>w lsrStaTxDAUnicastBytes</td>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.3.1.6</td>
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<tr>
<td></td>
<td>Station stats by packet type</td>
</tr>
<tr>
<td></td>
<td>w lsrStaFrameType</td>
</tr>
<tr>
<td></td>
<td>StatsTable</td>
</tr>
<tr>
<td></td>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.4.4</td>
</tr>
<tr>
<td></td>
<td>This table breaks down the Station statistics based on the Type of the Packet.</td>
</tr>
<tr>
<td></td>
<td>This table includes”</td>
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<td>Station frame type statistics</td>
</tr>
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<td>w lsrStaFrameTypeStatsEntry</td>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.4.1</td>
</tr>
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<td>Number of transmitted management packets from a station</td>
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<tr>
<td></td>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.4.1.1</td>
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<tr>
<td></td>
<td>Number of transmitted management bytes from a station</td>
</tr>
<tr>
<td></td>
<td>w lsrStaTxMgmtBytes</td>
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<tr>
<td></td>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.4.1.2</td>
</tr>
<tr>
<td></td>
<td>Number of transmitted control packets from a station</td>
</tr>
<tr>
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<td>w lsrStaTxCtrlPkts</td>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.4.1.3</td>
</tr>
<tr>
<td></td>
<td>Number of transmitted control bytes from a station</td>
</tr>
<tr>
<td></td>
<td>w lsrStaTxCtrlBytes</td>
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<td></td>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.4.1.4</td>
</tr>
<tr>
<td></td>
<td>Number of transmitted data packets from a station</td>
</tr>
<tr>
<td></td>
<td>w lsrStaTxDataPkts</td>
</tr>
<tr>
<td></td>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.4.1.5</td>
</tr>
<tr>
<td></td>
<td>Number of transmitted data bytes from a station</td>
</tr>
<tr>
<td></td>
<td>w lsrStaTxDataBytes</td>
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<tr>
<td></td>
<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.4.1.6</td>
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<tr>
<td></td>
<td>Number of received management packets from a station</td>
</tr>
<tr>
<td></td>
<td>w lsrStaRxMgmtPkts</td>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.4.1.7</td>
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**TABLE 1-3  Aruba AP MIB Tables (Continued)**

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<th>Table Name/OID</th>
<th>Description/OID</th>
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<tbody>
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<td>wlsrStaRxMgmtBytes</td>
<td>Number of received management bytes from a station 1.3.6.1.4.1.14823.2.3.1.1.3.4.4.1.8</td>
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<td>wlsrStaRxCtrlPks</td>
<td>Number of received control packets from a station 1.3.6.1.4.1.14823.2.3.1.1.3.4.4.1.9</td>
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<td>wlsrStaRxCtrlBytes</td>
<td>Number of received control bytes from a station 1.3.6.1.4.1.14823.2.3.1.1.3.4.4.1.10</td>
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<tr>
<td>wlsrStaRxDataPks</td>
<td>Number of received data packets from a station 1.3.6.1.4.1.14823.2.3.1.1.3.4.4.1.11</td>
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<tr>
<td>wlsrStaRxDataBytes</td>
<td>Number of received data bytes from a station 1.3.6.1.4.1.14823.2.3.1.1.3.4.4.1.12</td>
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<tr>
<td>wlsrStaPktSizeStats</td>
<td>Station stats broken out into packets 1.3.6.1.4.1.14823.2.3.1.1.3.4.5</td>
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<tr>
<td>wlsrStaPktSizeStatsEntry</td>
<td>This table contains all the per channel Packet and Byte Counts but broken down into different Packet Sizes. This table includes” 1.3.6.1.4.1.14823.2.3.1.1.3.4.5.1</td>
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<td>wlsrChStatsPkts63Bytes</td>
<td>Packets transmitted that were less than 64 bytes long 1.3.6.1.4.1.14823.2.3.1.1.3.3.5.1.1</td>
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<tr>
<td>wlsrStaTxPkts64To127</td>
<td>Packets transmitted that were between 64 and 127 bytes long 1.3.6.1.4.1.14823.2.3.1.1.3.3.5.1.2</td>
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<tr>
<td>wlsrStaTxPkts128To255</td>
<td>Packets transmitted that were between 128 and 255 bytes long 1.3.6.1.4.1.14823.2.3.1.1.3.3.5.1.3</td>
</tr>
<tr>
<td>wlsrStaTxPkts256To511</td>
<td>Packets transmitted that were between 256 and 511 bytes long 1.3.6.1.4.1.14823.2.3.1.1.3.3.5.1.4</td>
</tr>
<tr>
<td>wlsrStaTxPkts512To1023</td>
<td>Packets transmitted that were between 512 and 1023 bytes long 1.3.6.1.4.1.14823.2.3.1.1.3.3.5.1.5</td>
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### Table 1-3  Aruba AP MIB Tables (Continued)

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<td>Packets transmitted that were between 1024 and 1518 bytes long</td>
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<tr>
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<td>wlsrStaTxPkts1024To1518</td>
</tr>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.5.1.6</td>
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<tr>
<td></td>
<td>Packets received that were less than 64 bytes long</td>
</tr>
<tr>
<td></td>
<td>wlsrStaRxPkts63Bytes</td>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.5.1.7</td>
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<td>Packets received that were between 64 and 127 bytes long</td>
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<td>wlsrStaRxPkts64To127</td>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.5.1.8</td>
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<td>Packets received that were between 128 and 255 bytes long</td>
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<tr>
<td></td>
<td>wlsrStaRxPkts128To255</td>
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<tr>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.5.1.9</td>
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<td>Packets received that were between 256 and 511 bytes long</td>
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<td>wlsrStaRxPkts256To511</td>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.5.1.10</td>
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<td>Packets received that were between 512 and 1023 bytes long</td>
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<td>wlsrStaRxPkts512To1023</td>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.5.1.11</td>
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<td>Packets received that were between 1024 and 1518 bytes long</td>
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<td>wlsrStaRxPkts1024To1518</td>
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<td>1.3.6.1.4.1.14823.2.3.1.1.3.4.5.1.12</td>
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### Aruba AP MIB Tables (Continued)

<table>
<thead>
<tr>
<th>Table Name/OID</th>
<th>Description/OID</th>
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<tbody>
<tr>
<td>Air Monitor table</td>
<td>Air Monitor Access Point List Table. On an Air monitor this table lists all the Access Points the AM is monitoring. On an Access Point, this table contains itself. This table includes”</td>
</tr>
<tr>
<td>wlsrAirMonitorApListTable 1.3.6.1.4.1.14823.2.3.1.1.4.1</td>
<td>Air Monitor table listing all APs monitored by this AM wlsrAirMonitorApListEntry 1.3.6.1.4.1.14823.2.3.1.1.4.1.1</td>
</tr>
<tr>
<td></td>
<td>BSSID of the AP wlsrAmApBSSID 1.3.6.1.4.1.14823.2.3.1.1.4.1.1.1</td>
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<td>SSID of the AP wlsrAmSSID 1.3.6.1.4.1.14823.2.3.1.1.4.1.1.2</td>
</tr>
<tr>
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<td>AP is operating on this channel wlsrAmChannel 1.3.6.1.4.1.14823.2.3.1.1.4.1.1.3</td>
</tr>
<tr>
<td></td>
<td>Physical layer type wlsrAmPhysicalType 1.3.6.1.4.1.14823.2.3.1.1.4.1.1.4</td>
</tr>
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<td>AP type wlsrAmAccessPointType 1.3.6.1.4.1.14823.2.3.1.1.4.1.1.5</td>
</tr>
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<td>Remote AP type wlsrAmRAPType 1.3.6.1.4.1.14823.2.3.1.1.4.1.1.6</td>
</tr>
</tbody>
</table>

### Aruba Grid/Access Point Trap Object Identifiers

This table shows the OIDs for the traps sent out by APs.

### Access/Grid Point Trap Object Identifiers

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<th>Object Name by Table</th>
<th>Object ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>wlsrUnsecureApDetected</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1001</td>
</tr>
<tr>
<td>wlsrStaImpersonation</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1002</td>
</tr>
<tr>
<td>wlsrReservedChannelViolation</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1003</td>
</tr>
<tr>
<td>wlsrValidSSIDViolation</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1004</td>
</tr>
<tr>
<td>wlsrChannelMisconfiguration</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1005</td>
</tr>
<tr>
<td>wlsrOUIMisconfiguration</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1006</td>
</tr>
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### TABLE 1-4  Access/Grid Point Trap Object Identifiers

<table>
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<th>Object Name by Table</th>
<th>Object ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>wlsrSSIDMisconfiguration</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1007</td>
</tr>
<tr>
<td>wlsrShortPreambleMisconfiguration</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1008</td>
</tr>
<tr>
<td>wlsrWPAAMisconfiguration</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1009</td>
</tr>
<tr>
<td>wlsrAdhocNetworkDetected</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1010</td>
</tr>
<tr>
<td>wlsrStaPolicyViolation</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1011</td>
</tr>
<tr>
<td>wlsrRepeatWEPIVI Violation</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1012</td>
</tr>
<tr>
<td>wlsrWeakWEPIVI Violation</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1013</td>
</tr>
<tr>
<td>wlsrChannelInterferenceDetected</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1014</td>
</tr>
<tr>
<td>wlsrAPInterferenceDetected</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1015</td>
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<tr>
<td>wlsrStaInterferenceDetected</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1016</td>
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<tr>
<td>wlsrFrameRetryRateExceeded</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1017</td>
</tr>
<tr>
<td>wlsrFrameReceiveErrorRateExceeded</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1018</td>
</tr>
<tr>
<td>wlsrFrameFragmentationRateExceeded</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1019</td>
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<td>wlsrFrameBandWidthRateExceeded</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1020</td>
</tr>
<tr>
<td>wlsrFrameLowSpeedRateExceeded</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1021</td>
</tr>
<tr>
<td>wlsrFrameNonUnicastRateExceeded</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1022</td>
</tr>
<tr>
<td>wlsrLoadbalancingEnabled</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1023</td>
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<td>wlsrChannelFrameRetryRateExceeded</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1024</td>
</tr>
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<td>wlsrChannelFrameFragmentationRateExceeded</td>
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<td>wlsrChannelFrameErrorRateExceeded</td>
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<td>wlsrSignatureMatch</td>
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</tr>
<tr>
<td>wlsrChannelRateAnomaly</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1028</td>
</tr>
<tr>
<td>wlsrNodeRateAnomaly</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1029</td>
</tr>
<tr>
<td>wlsrEAPRateAnomaly</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1030</td>
</tr>
<tr>
<td>wlsrSignalAnomaly</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1031</td>
</tr>
<tr>
<td>wlsrSequenceNumberAnomaly</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1032</td>
</tr>
<tr>
<td>wlsrDisconnectStationAttack</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1033</td>
</tr>
<tr>
<td>wlsrApFloodAttack</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1034</td>
</tr>
<tr>
<td>wlsrAdhocNetwork</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1035</td>
</tr>
<tr>
<td>wlsrWirelessBridge</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1036</td>
</tr>
<tr>
<td>wlsrInvalidMacOUI</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1037</td>
</tr>
</tbody>
</table>
Managing Air Monitors

The data to monitor an Air Monitor (AM) are also contained in Table on page 18. These key objects to monitor for AMs are:

- **AP list**: List of APs being monitored by the Air Monitor.
  - BSSID
  - SSID
  - Channel
  - Phy-type
  - **AP-Type**: Can be one of the following:
    - Generic.
    - Soft-AP
    - Cisco AP.
  - **RAP-type or Rogue AP type**: Can be one of the following:
    - Valid
    - Interfering
    - Unsecure
    - DOS
    - Unknown.

---

**Table 1-4**  
Access/Grid Point Trap Object Identifiers

<table>
<thead>
<tr>
<th>Object Name by Table</th>
<th>Object ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>wlsrLoadbalancingDisabled</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1038</td>
</tr>
<tr>
<td>wlsrWEPMisconfiguration</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1039</td>
</tr>
<tr>
<td>wlsrStaRepeatWEPIVViolation</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1040</td>
</tr>
<tr>
<td>wlsrStaWeakWEPIVViolation</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1041</td>
</tr>
<tr>
<td>wlsrStaAssociatedToUnsecureAp</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1042</td>
</tr>
<tr>
<td>wlsrAdhocNetworkBridgeDetected</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1043</td>
</tr>
<tr>
<td>wlsrInterferingApDetected</td>
<td>1.3.6.1.4.1.14823.2.3.1.1.100.1044</td>
</tr>
</tbody>
</table>
Traps from the Switch

Use the following traps to manage an Aruba switch:

Switch IP Changed
This indicates the IP address of the switch has been changed. The Switch IP is either the Loopback IP address or the IP address if the VLAN 1 interface (if no loopback IP address is configured).

**Priority Level:** Critical

```
 waiveSwitchIPChanged 1.3.6.1.4.1.14823.2.2.1.1.100.1001
```

Switch Role Changed
This indicates that the switch has transitioned from being a Master switch to a Local switch or vice versa.

**Priority Level:** Critical

```
 waiveSwitchRoleChange 1.3.6.1.4.1.14823.2.2.1.1.100.1002
```

User Entry Created/Deleted/Authenticated/De-authenticated/Authentication Failed
Each of these traps are triggered by an event related to a user event. The event can be a new user entry being created in the user table, deletion of a user entry, a user getting authenticated successfully, a user getting de-authenticated, or a failed authentication attempt. Each of these traps will be generated by the switch on which the user event occurs. In other words this is a local event to the switch where the user is visible.

**Priority Level:** Medium.

```
 waiveUserEntryAuthenticated 1.3.6.1.4.1.14823.2.2.1.1.100.1005
 waiveUserEntryDeAuthenticated 1.3.6.1.4.1.14823.2.2.1.1.100.1006
 waiveUserAuthenticationFailed 1.3.6.1.4.1.14823.2.2.1.1.100.1007
```

Authentication Server Request Timed Out
This trap indicates that a request to a authentication server did not receive a response from the server within a specified amount of time, and therefore the request timed out. This usually indicates a connectivity problem from the Aruba switch to the authentication server or some other problem related to the authentication server.

**Priority Level:** High.

```
 waiveAuthServerReqTimedOut 1.3.6.1.4.1.14823.2.2.1.1.100.1008
```
**Authentication Server Timed Out**

This trap indicates that an authentication server has been taken out of service. This is almost always same as AuthServerReqTimedOut except when there is only one authentication server in which case the server will never be taken out of service. In that case the AuthServerReqTimedOut will continue to be raised but not then AuthServerTimedOut.

**Priority Level**: High

wlsxAuthServerTimedOut 1.3.6.1.4.1.14823.2.2.1.1.100.1009

**Authentication Server Up**

This trap indicates that an authentication server that was previously not responding has started responding to authentication requests. This will be triggered by a user event that causes the switch to send an authentication request to the authentication server.

**Priority Level**: Low

wlsxAuthServerIsUp 1.3.6.1.4.1.14823.2.2.1.1.100.1010

**Authentication User Table Full**

This trap indicates that the authentication user table has reached its limit with the number of user entries it can hold. This event is local to the switch that generates the traps. The maximum number of user entries that can be present at the same time in the user table is 4096.

**Priority Level**: Critical.

wlsxAuthMaxUserEntries 1.3.6.1.4.1.14823.2.2.1.1.100.1011

**Authentication ACL Table Full**

This trap indicates that the maximum number of ACL entries in the ACL table has been exceeded. The limit for this is 2048 entries on a switch.

**Priority Level**: High

wlsxAuthMaxAclEntries 1.3.6.1.4.1.14823.2.2.1.1.100.1012

**Authentication Bandwidth Contracts Table Full**

This trap indicates that the maximum number of configured bandwidth contracts on the switch has been exceeded. The threshold for this is 4096

**Priority Level**: High

wlsxAuthMaxBwContracts 1.3.6.1.4.1.14823.2.2.1.1.100.1013

**Power Supply Failure**

As the name indicates, this trap indicates the failure of one of the two possible power supplies in the switch.
**Priority Level:** Critical

wlsxPowerSupplyFailure 1.3.6.1.4.1.14823.2.2.1.1.100.1014

Fan Failure
As the name indicates, this trap indicates a failure of the fan in the switch.

**Priority Level:** Critical

wlsxFanFailure 1.3.6.1.4.1.14823.2.2.1.1.100.1015

Out of Range Voltage
This trap indicates an out of range voltage being supplied to the switch.

**Priority Level:** Critical

wlsxOutOfRangeVoltage 1.3.6.1.4.1.14823.2.2.1.1.100.1016

Out of Range Temperature
This trap indicates an out of range operating temperature being supplied to the switch.

**Priority Level:** Critical

wlsxOutOfRangeTemperature 1.3.6.1.4.1.14823.2.2.1.1.100.1017

Line Card Inserted/Removed
These traps indicate that a Line Card has been inserted or removed from the switch.

**Priority Level:** Critical

wlsxLCInserted 1.3.6.1.4.1.14823.2.2.1.1.100.1018

Supervisor Card Inserted/Removed.
These traps indicate that a Supervisor card has been inserted or removed from the switch

**Priority Level:** Critical

wlsxSCInserted 1.3.6.1.4.1.14823.2.2.1.1.100.1019

GBIC Inserted
This trap indicates that a Gigabitethernet Interface Card has been inserted in a line card.

**Priority Level:** Medium

wlsxGBICInserted 1.3.6.1.4.1.14823.2.2.1.1.100.1020
Process Died
This trap indicates that one of the processes on the switch has died. The trap will also indicate the name of the process that has died.

**Priority Level**: Critical.

wlsxProcessDied 1.3.6.1.4.1.14823.2.2.1.1.100.1021

Process Exceeding Memory Limits
This trap indicates that one (or more) of the processes is exceeding its memory limits, thereby signaling a potential memory leak in the system. Since this can lead to a system crash potentially this is critical trap and must be reported immediately. The name of the process is indicated in the trap.

**Priority Level**: Critical.

wlsxProcessExceedsMemoryLimits 1.3.6.1.4.1.14823.2.2.1.1.100.1022

Low on Flash Space
This trap indicates that the system is running low on flash space. This can be due to a variety of reasons and is an important trap to monitor as the system can be reloaded and can lose valuable data if this event occurs.

**Priority Level**: Critical.

wlsxLowOnFlashSpace 1.3.6.1.4.1.14823.2.2.1.1.100.1023

Low System Memory
This trap indicates that the system is running low on memory.

**Priority Level**: Critical.

wlsxLowMemory 1.3.6.1.4.1.14823.2.2.1.1.100.1024

Fan Tray Removed/Inserted
This trap indicates that a fan tray has been removed or inserted.

**Priority Level**: Critical.

wlsxSwitchTraps 1.3.6.1.4.1.14823.2.2.1.1.100.1025
wlsxSwitchTraps 1.3.6.1.4.1.14823.2.2.1.1.100.1026

Line Card Removed
This trap indicates that a line card has been removed.

**Priority Level**: Critical.

wlsxSwitchTraps 1.3.6.1.4.1.14823.2.2.1.1.100.1027
Supervisor Card Removed
This trap indicates that a supervisor card has been removed.

Priority Level: Critical.
wlsxSwitchTraps 1.3.6.1.4.1.14823.2.2.1.1.100.1028

Power Supply Missing
This trap indicates that one of the power supplies is missing.

Priority Level: Critical.
wlsxPowerSupplyMissing 1.3.6.1.4.1.14823.2.2.1.1.100.1029

Access Point is Operational/Down
This trap indicates that an Access Point is working or is not working.

Priority Level: Critical.
wlsxAccessPointIsUp 1.3.6.1.4.1.14823.2.2.1.1.100.1030
wlsxAccessPointIsDown 1.3.6.1.4.1.14823.2.2.1.1.100.1031

Detecting a Coverage Hole
This trap indicates that a hole in coverage has been detected.

Priority Level: Critical.
wlsxCoverageHoleDetected 1.3.6.1.4.1.14823.2.2.1.1.100.1032

Channel Changed
This trap indicates that an Access Point has changed channels.

Priority Level: Critical.
wlsxChannelChanged 1.3.6.1.4.1.14823.2.2.1.1.100.1033

Station Added to/Removed from Blacklist
This trap indicates that a station with the MAC address shown has been blacklisted (for the reason given) or removed from the blacklist.

Priority Level: Critical.
wlsxStationAddedToBlackList 1.3.6.1.4.1.14823.2.2.1.1.100.1034
wlsxStationRemovedFromBlackList 1.3.6.1.4.1.14823.2.2.1.1.100.1035

Spoofing Detected
This trap indicates that the switch has detected IP spoofing.
SNMP Guidelines

Priority Level: Critical.

**Communications Failure**
This trap indicates that the switch cannot communicate with the database.

Priority Level: Critical.

**VRRP State Change**
This trap indicates that the switch's Virtual Router Redundancy Protocol status has changed.

Priority Level: Critical.

**Radio Attributes Changed**
This trap indicates that the radio attributes of the specified AP have changed.

Priority Level: Critical.

**ESI Server Is Up/Down**
This trap indicates the status of the Grid Service Interface.

Priority Level: Critical.

Traps from the Access Point/Air Monitor

Use the following traps to manage access points and air monitors.

**Unsecure AP Detected**
This trap indicates that an Air Monitor has detected and classified an Access Point as unsecure. It will indicate the location of the Air Monitor that has detected the unsecure AP, the channel on which the AP was detected as well as the BSSID and SSID of the detected AP.

Priority Level: Critical.
Station Impersonation
This trap indicates an Air Monitor has detected a Station impersonation event. The trap will provide the location of the Air Monitor that has detected the event and the MAC address of the Station.

Priority Level: Critical
wIsrStaImpersonation 1.3.6.1.4.1.14823.2.3.1.1.100.1002

Reserved Channel Impersonation
This trap indicates an Access Point is being detected in violation of the Reserved Channels. The location of the AP/AM that detects the event is provided in the trap. In addition to this, the BSSID and SSID of the detected AP is also included.

Priority Level: High
wIsrReservedChannelViolation 1.3.6.1.4.1.14823.2.3.1.1.100.1003

Valid SSID Violation
This indicates a configuration in the configuration of the SSID of the AP. The AP generates the trap and includes its BSSID, the configured SSID and the location of the AP in the trap.

Priority Level: High
wIsrValidSSIDViolation 1.3.6.1.4.1.14823.2.3.1.1.100.1004

Channel Misconfiguration
This trap indicates an error in channel configuration of an AP. The AP generates the trap and includes its BSSID, the configured SSID and the location of the AP in the trap.

Priority Level: High
wIsrChannelMisconfiguration 1.3.6.1.4.1.14823.2.3.1.1.100.1005

OUI Misconfiguration
This trap indicates an error in the OUI configuration of an Access Point. The AP generates the trap and includes its BSSID, the configured SSID and the location of the AP in the trap.

Priority Level: High
wIsrOUIMisconfiguration 1.3.6.1.4.1.14823.2.3.1.1.100.1006

SSID Misconfiguration
This trap indicates an error in the SSID configuring of an Access Point. The AP generates the trap and includes its BSSID, the configured SSID and the location of the AP in the trap.
**Priority Level:** High

wlsrSSIDMisconfiguration 1.3.6.1.4.1.14823.2.3.1.1.100.1007

**Short Preamble Misconfiguration**
This trap indicates an error in the Short Preamble configuration of an Access Point. The AP generates the trap and includes its BSSID, the configured SSID and the location of the AP in the trap. This check will be done only if the short-preamble option is selected for the AP from the CLI or the WebUI.

**Priority Level:** High

wlsrShortPreambleMisconfiguration 1.3.6.1.4.1.14823.2.3.1.1.100.1008

**AM Misconfiguration**
This trap indicates an error in the Access Point has a bad WPA configuration.

**Priority Level:** High

wlsrWPAAMisconfiguration 1.3.6.1.4.1.14823.2.3.1.1.100.1009

**Ad hoc Networks Detected**
This trap indicates that the Air Monitor has detected Ad hoc networks.

**Priority Level:** High.

wlsrAdhocNetworkDetected 1.3.6.1.4.1.14823.2.3.1.1.100.1010

**Valid Station Policy Violation**
This trap indicates that a valid Station policy is being violated.

**Priority Level:** High.

wlsrStaPolicyViolation 1.3.6.1.4.1.14823.2.3.1.1.100.1011

**Repeat WEP-IV Violation**
This trap indicates that the Air Monitor has detected a valid station or a valid AP sending consecutive frames that has the same IV (Initialization vector). This usually means that that entity has a “flawed” WEP implementation and is therefore a potential security risk.

**Priority Level:** High

wlsrRepeatWEPIVViolation 1.3.6.1.4.1.14823.2.3.1.1.100.1012

**Weak WEP-IV Violation**
This trap indicates that the Air Monitor has detected a valid station or a valid AP sending frames with an IV that is in the range of IV that are known to be cryptographically weak and therefore are a potential security risk.
**Priority Level**: High

wlsrWeakWEPIVViolation 1.3.6.1.4.1.14823.2.3.1.1.100.1013

**Channel Interference**
This trap indicates that the specified AM/AP has detected interference on the indicated channel.

**Priority Level**: Medium

wlsrChannelInterferenceDetected 1.3.6.1.4.1.14823.2.3.1.1.100.1014

**AP Interference**
This trap indicates that the specified Air Monitor (identified by the BSSID/SSID) is detecting AP interference on the indicated channel.

**Priority Level**: Medium

wlsrAPInterferenceDetected 1.3.6.1.4.1.14823.2.3.1.1.100.1015

**Station Interference**
This trap indicates that the specified AM/AP has detected station interference on the indicated channel.

**Priority Level**: Medium

wlsrStaInterferenceDetected 1.3.6.1.4.1.14823.2.3.1.1.100.1016

**Frame Retry Rate Exceeded**
This trap refers to the event when the percentage of received and transmitted frames with the retry bit crosses the High watermark. This event can be triggered for an AP, a station or a channel. The two values that should be configured related to this event are Frame Retry Rate - High Watermark and Frame Retry Rate - Low watermark. The High Watermark refers to the percentage threshold which if surpassed triggers the event that causes the trap to be sent. The Low Watermark refers to the percentage threshold such that if the retry rate reaches a value lower than this value the event is reset. What this means is that the trap will be triggered the first time the Frame Retry rate crosses the High Watermark and then will only be triggered if the Frame Retry Rate goes under the Low Watermark and then crosses the High Watermark again. This holds true for all the thresholds explained below as well.

**Priority Level**: Medium

wlsrFrameRetryRateExceeded 1.3.6.1.4.1.14823.2.3.1.1.100.1017

**Frame Receive Error Rate Exceeded**
This trap indicates that the specified AM/AP is reporting that an AP (identified by BSSID) has exceeded its upper threshold for Frame Receive Error Rate.

**Priority Level**: Medium
Frame Fragmentation Rate Exceeded
This trap indicates that the specified AM/AP is reporting that an AP (identified by BSSID) has exceeded its upper threshold for Frame Fragmentation Rate.

**Priority Level**: Medium

Frame Bandwidth Rate Exceeded
This trap refers to the event of the bandwidth rate for a station exceeding a configured threshold (High watermark). The terms High Watermark and Low Watermark hold the same meaning as explained above.

**Priority Level**: Medium

Frame Low Speed Rate Exceeded
This trap refers to the event when the percentage of received and transmitted frames at low speed (less that 5.5M bps for 802.11b and less that 24 Mbps for 802.11a) exceeds the configured High Watermark. The terms High Watermark and Low Watermark hold the same meaning as explained above.

**Priority Level**: Medium

Frame Non Unicast Rate Exceeded
This trap indicates that the specified AM/AP is reporting that the specified station has exceeded its upper threshold for Non Unicast traffic Rate.

**Priority Level**: Medium

Load Balancing Enabled
This trap indicates that the specified AM/AP is reporting that an AP (identified by BSSID) has enabled load balancing.

**Priority Level**: Medium

Channel Frame Retry Rate Exceeded
This trap indicates that the specified AM/AP is reporting that it exceeded its upper Frame Retry Rate threshold.
**Priority Level:** Medium

\texttt{wlsrChannelFrameRetryRateExceeded 1.3.6.1.4.1.14823.2.3.1.1.100.1024}

### Channel Frame Fragmentation Exceeded

This trap indicates that the specified AM/AP is reporting it exceeded its upper Frame Fragmentation Rate threshold.

**Priority Level:** Medium

\texttt{wlsrChannelFrameFragmentationRateExceeded 1.3.6.1.4.1.14823.2.3.1.1.100.1025}

### Channel Frame Error Exceeded

This trap indicates that the specified AM/AP is reporting it exceeded its upper Frame Error Rate threshold.

**Priority Level:** Medium

\texttt{wlsrChannelFrameErrorRateExceeded 1.3.6.1.4.1.14823.2.3.1.1.100.1026}

### Signature Match

This trap indicates that a signature match was detected.

**Priority Level:** Medium

\texttt{wlsrSignatureMatch 1.3.6.1.4.1.14823.2.3.1.1.100.1027}

### Channel Rate Anomaly

This trap indicates that the specified AP/AM detected the specified frames on the specified channel which exceeds the configured IDS rate threshold.

**Priority Level:** High

\texttt{wlsrChannelRateAnomaly 1.3.6.1.4.1.14823.2.3.1.1.100.1028}

### Node Rate Anomaly

This trap indicates that the specified AP/AM detected the specified frames transmitted by the specified node which exceeds the configured IDS rate threshold.

**Priority Level:** High

\texttt{wlsrNodeRateAnomaly 1.3.6.1.4.1.14823.2.3.1.1.100.1029}

### EAP Rate Anomaly

"This trap indicates that the specified AM/AP received a number of EAP Handshake packets that exceeds the configured IDS EAP Handshake rate."
Priority Level: High
wlsrEAPRateAnomaly 1.3.6.1.4.1.14823.2.3.1.1.100.1030

Signal Anomaly
This trap indicates that the specified AP/AM detected a Signal Anomaly on the specified channel.
Priority Level: High
wlsrSignalAnomaly 1.3.6.1.4.1.14823.2.3.1.1.100.1031

Sequence Number Anomaly
This trap indicates that the specified AP/AM received packets which exceeds the acceptable sequence number difference. The acceptable sequence number difference is an IDS configuration object.
Priority Level: High
wlsrSequenceNumberAnomaly 1.3.6.1.4.1.14823.2.3.1.1.100.1032

Disconnect Station Attack
This trap indicates that the specified AP/AM detected a station Disconnect attack.
Priority Level: High
wlsrDisconnectStationAttack 1.3.6.1.4.1.14823.2.3.1.1.100.1033

AP Flood Attack
This trap indicates that the specified AP/AM detected a number of spurious APs that exceeds the configured IDS threshold.
Priority Level: High
wlsrApFloodAttack 1.3.6.1.4.1.14823.2.3.1.1.100.1034

Ad hoc Networks
This trap indicates that the specified AP/AM has detected that the specified node is connected to the specified ad hoc AP (identified by BSSID/SSID).
Priority Level: High
wlsrAdhocNetwork 1.3.6.1.4.1.14823.2.3.1.1.100.1035

Wireless Bridge Detection
This trap indicates that the specified AP/AM has detected a bridge at between the specified source and destination MAC addresses.
Priority Level: High
wlsrWirelessBridge 1.3.6.1.4.1.14823.2.3.1.1.100.1036
Invalid MAC Organizationally Unique Identifier (OUI)
This trap indicates that the specified AP/AM has detected an invalid MAC OUI in transmissions from the specified node.

**Priority Level**: High

w lsrInvalidMacOUI 1.3.6.1.4.1.14823.2.3.1.1.100.1037

Load Balancing Disabled
This trap indicates that the specified AP/AM has detected that the AP with the specified BSSID has turned off load balancing.

**Priority Level**: Medium

w lsrLoadbalancingDisabled 1.3.6.1.4.1.14823.2.3.1.1.100.1038

WEP Misconfiguration
This trap indicates that an Access Point has a bad WPA configuration.

**Priority Level**: High

w lsrWEPMisconfiguration 1.3.6.1.4.1.14823.2.3.1.1.100.1039

Repeat WEP-IV Violation
This trap indicates that the specified AP/AM a repeat WEP-IV violation for a station.

**Priority Level**: High

w lsrStaRepeatWEPIVViolation 1.3.6.1.4.1.14823.2.3.1.1.100.1040

Weak WEP-IV Violation for a Station
This trap indicates that the specified AP/AM has detected a Weak WEP-IV violation for a station.

**Priority Level**: High

w lsrStaWeakWEPIVViolation 1.3.6.1.4.1.14823.2.3.1.1.100.1041

Unsecure AP Associations
This trap indicates that the specified AM has detected that a station (identified by MAC address) has associated with an unsecure AP (identified by BSSID).

**Priority Level**: High

w lsrStaAssociatedToUnsecureAp 1.3.6.1.4.1.14823.2.3.1.1.100.1042

Ad hoc Network Bridge
This trap indicates that the specified AP/AM has detected an ad hoc network that is bridging to a wired network.
Priority Level: High

wlsrAdhocNetworkBridgeDetected 1.3.6.1.4.1.14823.2.3.1.1.100.1043

Interfering AP
This trap indicates that the specified AM has detected an interfering Access Point at the specified location and channel.

Priority Level: High
wlsrInterferingApDetected 1.3.6.1.4.1.14823.2.3.1.1.100.1044

Common Tasks

The following are guidelines for performing common monitoring and debugging tasks using SNMP.

Managing an Aruba Switch
The Enterprise MIB module wlsxSwitchMIB can be used to monitor:
- A list of all the switches in the Aruba Domain
- All the Access points connected to the switch
- Summary statistics for all the Access Points connected to the switch
- All the stations associated to the APs connected to the switch
- Summary statistics for all the stations
- All the users connected to the switch
- On a Master switch, all the APs connected to the switches in the Aruba Domain

Managing Access Points
List of Access Points Connected to the switch can be obtained by retrieving the wlsxSwitchAccessPointTable table. This table is indexed by apBSSID (1.3.6.1.4.1.14823.2.2.1.1.3.3.1.1). An entry in the table represents a BSSID. An AP with multiple BSSIDs will have multiple entries in the table. However, the IP address will be same for all the BSSIDs belonging to an AP. This IP address can be used to communicate with the SNMP agent on the AP to obtain detailed statistics.

High level statistics for the APs connected to the switch can be obtained by using the wlsxSwitchAccessPointStatsTable table. This table is indexed by apBSSID. Applications polling for AP statistics should make use of this table. APs should be polled only when detailed statistics are required.
Aruba Master switch contains a global list of all the Access Points connected to the switches in the Aruba domain. Use the `wlsxSwitchGlobalAPTable` table to retrieve this table. The `globalAPState` value indicates whether the AP is UP/Down.

The scalar variable `wlsxSwitchTotalNumAccessPoints` indicates the total number of access points connected to the switch.

Managing Stations

List of stations connected to the switch can be obtained by retrieving the `wlsxSwitchStationMgmtTable` table. This table is indexed by `staPhyAddress` and `staAccessPointBSSID`. If this station is authenticated, then the entry will contain a valid user name and user role.

A high level statistics for all the station connected the switch can be obtained by using the `wlsxSwitchStationStatsTable` table. The Access Point itself contains detailed station statistics, but when actively polling for statistics applications should use this table instead.

The scalar variable `wlsxSwitchTotalNumStationAssociated` indicates the total number of stations associated to all the access points connected to the switch.

Managing the Switch List

Aruba master switch contains a list of all the switches in the Aruba Domain. This list can be obtained by retrieving the `wlsxSwitchListTable` table. On the local switches this table contains an entry to itself. An application can use this table to discover all the aruba switches in a domain.

Managing Users

A List of Users connected to the switch can be obtained by retrieving the `wlsxSwitchUserTable` table. This table is indexed by the `userIpAddress` (1.3.6.1.4.1.14823.2.2.1.1.2.1.1.1). Each entry in the table represents a unique user in the system. The user table contains the following fields about the user:

- IP address of the station on which the user is logged on.
- Physical address of the station. This physical address can then be used to get further statistics related to the station by doing a look-up into the Station Table as described below.
- User Name.
- User Role.
- Time for which the user has been present on the system.
- Authentication method used by the user to log into the system. This can be web-based, VPN, 802.1x et al.
- Location of the Access Point that the station is associated to.
- Server Name where the user was authenticated.
- Connected VLAN
- Connected Slot/Port.
- Bandwidth contract Name and Usage.

**Getting Statistics for a Station**

This table contains information about a station and is generally intended to looked up by the physical address (one can get this physical address for a station being used by a user by looking into the User Table as described above). Each entry in this table contains the following fields:

- Station physical address.
- Access Point BSSID: This indicates the Access Point to whom the station is associated.
- User Name.
- User Role.
- ESSID: This indicates the ESSID to which the client is associated.

---

**Standard MIB Support Exceptions**

Aruba switches have partial support for MIB-II and an Enterprise MIB module wlsxSwitchMIB (for a list of Enterprise MIB module functions supported, see “Managing an Aruba Switch” on page 51.). In general, MIB-II support includes the system and interface tables.

The groups supported in MIB-II are:

- system group (read/write)
- ifTable and ifXTable (read)
- ipAddrTable
- ipNetToMediaTable

Aruba switches also do not support the following MIB-II objects:

- mib-2.icmp
- mib-2.tcp
- mib-2.udp

The mib-2.snmp support is limited to returns of values up to 7. Also the snmpInTooBigs(8) through snmpOutTrap(29) objects return obsoleted values in AirOS 2.3 and higher.
HP OpenView

AirOS 2.3 and higher supports HP OpenView as a management tool. ArubaOS has been enhanced to support HP OpenView Network Node Manager and will install components for NNM to aid in the management of Aruba network devices.

ArubaOS accomplishes this by:

- Loading Aruba MIB definition files
- Loading Aruba GIF and Pixmap icon files
- Loading Aruba Symbol and Field definitions
- Configuring default Event Configuration for Aruba Traps and Events
- Adding OIDs for Aruba devices to the oid_to_type and oid_to_sym files for netmon based discovery and identification of Aruba devices

**NOTE:** OpenView NNM services are halted during the execution of the install scripts to allow for the proper registration of the Aruba database fields. Once the install script completes, the NNM services will restart.

To install the Aruba contributed module, execute the install script as the root user:

```
# $OV_CONTRIB/NNM/Aruba/install
```

For help with HPOV, refer to the Aruba System Management Support group at the Aruba Technical Service Center.
This chapter lists each of the switch and Access Point traps introduced in Chapter 1, “SNMP Guidelines.” The information below is included as reference material.

Aruba Switch Traps

WLSX-SWITCH-MIB DEFINITIONS ::= BEGIN

IMPORTS
  TEXTUAL-CONVENTION,
  MODULE-IDENTITY,
  OBJECT-TYPE,
  snmpModules,
  Integer32,
  Counter32,
  IpAddress,
  NOTIFICATION-TYPE
  FROM SNMPv2-SMI

  TDomain,
  DisplayString,
  PhysAddress,
  TAddress,
  TimeInterval,
  RowStatus,
  StorageType,
  TestAndIncr,
  MacAddress,
  TruthValue
  FROM SNMPv2-TC

  OBJECT-GROUP
  FROM SNMPv2-CONF
  wlsxEnterpriseMibModules
  FROM ARUBA-MIB;
wlsxSwitchMIB MODULE-IDENTITY
LAST-UPDATED "0502191930Z"
ORGANIZATION "Aruba Wireless Networks"
CONTACT-INFO
"Postal: 1322 Crossman Avenue
Sunnyvale, CA 94089
E-mail: dl-support@arubanetworks.com
Phone: +1 408 227 4500"
DESCRIPTION
"This MIB module defines MIB objects which provide System level
information about the Aruba switches."
REVISION "0502191930Z"
DESCRIPTION
"The initial revision."
 ::= { wlsxEnterpriseMibModules 1 }

wlsxSystemXGroup OBJECT IDENTIFIER ::= { wlsxSwitchMIB 1 }
wlsxUserInfoGroup OBJECT IDENTIFIER ::= { wlsxSwitchMIB 2 }
wlsxAccessPointInfoGroup OBJECT IDENTIFIER ::= { wlsxSwitchMIB 3 }
wlsxSwitchTraps OBJECT IDENTIFIER ::= { wlsxSwitchMIB 100 }

-- wlsxSystemXGroup contains objects to describe a switch.

wlsxHostname OBJECT-TYPE
SYNTAX DisplayString (SIZE(1..32))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Name of the switch."
 ::= { wlsxSystemXGroup 1 }

wlsxModelName OBJECT-TYPE
SYNTAX DisplayString (SIZE(1..32))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Model Name of the switch."
 ::= { wlsxSystemXGroup 2 }

wlsxSwitchIp OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Switch IP as configured by the user. This IP address uniquely identifies the switch."
::= { wlsxSystemXGroup 3 }

wlsxSwitchRole OBJECT-TYPE
SYNTAX INTEGER {
       master(1),
       local(2)
    }
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Role of this switch in the Switch Domain."
::= { wlsxSystemXGroup 4 }

wlsxSwitchMasterIp OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Master IP of the switch"
::= { wlsxSystemXGroup 5 }

-- Switch List Table contains all the switches in the domain. This table is valid only when queried from the master switch.

wlsxSwitchListTable OBJECT-TYPE
SYNTAX SEQUENCE OF MxSwitchListEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "This Table will list all the switches in the Switch Domain. It will be populated only on the master switch. Local switches return empty table."
::= { wlsxSystemXGroup 6 }

wlsxSwitchListEntry OBJECT-TYPE
SYNTAX MxSwitchListEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "Switch List Entry"
INDEX { switchListSwitchIPAddress}
 ::= { wlsxSwitchLicenseTable 1 }

MxSwitchListEntry ::= 
SEQUENCE {
   switchListSwitchIPAddressIpAddress,
   switchListSwitchRole INTEGER
 }

switchListSwitchIPAddress OBJECT-TYPE
   SYNTAX       IpAddress
   MAX-ACCESS   not-accessible
   STATUS       current
   DESCRIPTION
   "IP Address of the switch."
 ::= { wlsxSwitchListEntry 1 }

switchListSwitchRole OBJECT-TYPE
   SYNTAX       INTEGER {
                 master(1),
                 local(2)
               }
   MAX-ACCESS   read-only
   STATUS       current
   DESCRIPTION
   "Role of the Switch."
 ::= { wlsxSwitchListEntry 2 }

wlsxSwitchLicenseCount OBJECT-TYPE
   SYNTAX       Integer32
   MAX-ACCESS   read-only
   STATUS       current
   DESCRIPTION
   "The number of licenses installed on the switch"
 ::= { wlsxSystemXGroup 7 }

-- The license table lists all valid licenses installed on the switch

wlsxSwitchLicenseTable  OBJECT-TYPE
   SYNTAX       SEQUENCE OF LicenseEntry
   MAX-ACCESS   not-accessible
   STATUS       current
DESCRIPTION
"This table lists all licenses installed on the switch."

::= { wlsxSystemXGroup 8 }

wlsxLicenseEntry OBJECT-TYPE
SYNTAX LicenseEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"License Entry"
INDEX { licenseIndex }
::= { wlsxSwitchLicenseTable 1 }

LicenseEntry ::= 
SEQUENCE {
  licenseIndex Integer32,
  licenseKey DisplayString,
  licenseInstalled DisplayString,
  licenseExpires DisplayString,
  licenseFlags DisplayString,
  licenseService DisplayString
}

licenseIndex OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"License ID number"
::= { wlsxLicenseEntry 1 }

licenseKey OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"License Key"
::= { wlsxLicenseEntry 2 }

licenseInstalled OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"License installation time"
::= { wlsxLicenseEntry 3 }

licenseExpires OBJECT-TYPE
SYNTAX       DisplayString
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"License expiry time"
::= { wlsxLicenseEntry 4 }

licenseFlags OBJECT-TYPE
SYNTAX       DisplayString
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"License flags; E - enabled; A - auto-generated"
::= { wlsxLicenseEntry 5 }

licenseService OBJECT-TYPE
SYNTAX       DisplayString
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"The service enabled by this license."
::= { wlsxLicenseEntry 6 }

-- wlsxUserInfoGroup contains information about the users connected to the switch.

class wlsxUserInfoGroup

wlsxSwitchUserTable  OBJECT-TYPE
SYNTAX       SEQUENCE OF MxSwitchUserEntry
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION
"This Table lists all the users (both wired and wireless) currently
connected to the switch. Users are identified by their IP address."
::= { wlsxUserInfoGroup 1 }

wlsxSwitchUserEntry OBJECT-TYPE
SYNTAX       MxSwitchUserEntry
MAX-ACCESS   not-accessible
MxSwitchUserEntry ::= 
SEQUENCE {
  userIpAddressIpAddress, 
  userPhyAddressMacAddress, 
  userNameDisplayString, 
  userRoleDisplayString, 
  userUpTimeTimeTicks, 
  userAuthenticationMethodINTEGER, 
  userLocationDisplayString, 
  userServerNameDisplayString, 
  userConnectedVlanInteger32, 
  userConnectedSlotInteger32, 
  userConnectedPortInteger32, 
  userBWContractNameDisplayString, 
  userBWContractUsageINTEGER
}

userIpAddress OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "IP Address from which the user connected to the switch."
::= { wlsxSwitchUserEntry 1 }

userPhyAddress OBJECT-TYPE
SYNTAX MacAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Physical Address of the station from which the user connected to the switch."
::= { wlsxSwitchUserEntry 2 }

userName OBJECT-TYPE
SYNTAX DisplayString(SIZE(0..32))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Name of the User."
::= { wlsxSwitchUserEntry 3 }

userRole OBJECT-TYPE
SYNTAX DisplayString(SIZE(0..64))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The Role configured for this user."
::= { wlsxSwitchUserEntry 4 }

userUpTime OBJECT-TYPE
SYNTAX TimeTicks
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Time since the user is connected to the switch."
::= { wlsxSwitchUserEntry 5 }

userAuthenticationMethod OBJECT-TYPE
SYNTAX INTEGER {
  none(1),
  other(2),
  web(3),
  dot1x(4),
  vpn(5),
  mac(6)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Authentication mechanism used by the user to connect to the switch."
::= { wlsxSwitchUserEntry 6 }

userLocation OBJECT-TYPE
SYNTAX DisplayString(SIZE(0..32))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Location of the access point (in Building.Floor.... format), which the user used to connect to the switch."
 ::= { wlsxSwitchUserEntry 7 }

userServerName OBJECT-TYPE
 SYNTAX DisplayString(SIZE(0..32))
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "Name of the Back-end authentication server, used to authenticate the user."
 ::= { wlsxSwitchUserEntry 8 }

userConnectedVlan OBJECT-TYPE
 SYNTAX Integer32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "Vlan on which the user is connected to the switch."
 ::= { wlsxSwitchUserEntry 9 }

userConnectedSlot OBJECT-TYPE
 SYNTAX Integer32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "Slot on switch, where the user connection terminates."
 ::= { wlsxSwitchUserEntry 10 }

userConnectedPort OBJECT-TYPE
 SYNTAX Integer32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "Port on switch, where the user connection terminates."
 ::= { wlsxSwitchUserEntry 11 }

userBWContractName OBJECT-TYPE
 SYNTAX DisplayString(SIZE(0..32))
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "Name of the Bandwidth Contract applied to this user."
 ::= { wlsxSwitchUserEntry 12 }
userBWContractUsage OBJECT-TYPE
SYNTAX INTEGER {
    user(1),
    shared(2)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Indicates how the Bandwidth Contract is used."
::= { wlsxSwitchUserEntry 13 }

-- StationMgmt Table
-- Station Management Table contains all the station associated with this AP.

wlsxSwitchStationMgmtTable OBJECT-TYPE
SYNTAX SEQUENCE OF MxSwitchStationMgmtEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This Table lists all the wireless stations associated with the Access points connected to this switch."
::= { wlsxUserInfoGroup 2 }

wlsxSwitchStationMgmtEntry OBJECT-TYPE
SYNTAX MxSwitchStationMgmtEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Station Management Entry"
INDEX {staPhyAddress, staAccessPointBSSID}
::= { wlsxSwitchStationMgmtTable 1 }

MxSwitchStationMgmtEntry ::= SEQUENCE {
    staPhyAddress MacAddress,  
    staAccessPointBSSID MacAddress,  
    staUserName DisplayString,  
    staUserRole DisplayString,  
    staAssociationID Unsigned32,  
    staAccessPointESSID DisplayString  
}
staPhyAddress OBJECT-TYPE
  SYNTAX       MacAddress
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
  "The Physical Address of the Station."
  ::= { wlsxSwitchStationMgmtEntry 1 }

staAccessPointBSSID OBJECT-TYPE
  SYNTAX       MacAddress
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
  "BSSID of the Access point through which the station is connected to the switch"
  ::= { wlsxSwitchStationMgmtEntry 2 }

staUserName OBJECT-TYPE
  SYNTAX       DisplayString(SIZE(0..32))
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
  "Name of the User connecting from this station."
  ::= { wlsxSwitchStationMgmtEntry 3 }

staUserRole OBJECT-TYPE
  SYNTAX       DisplayString(SIZE(0..32))
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
  "User Role."
  ::= { wlsxSwitchStationMgmtEntry 4 }

staAssociationID OBJECT-TYPE
  SYNTAX       Unsigned32
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
  "AID with which the Station is associated with this system."
  ::= { wlsxSwitchStationMgmtEntry 5 }

staAccessPointESSID OBJECT-TYPE
SYNTAX       DisplayString(SIZE(0..64))
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"ESSID of the Access point"
::= { wlsxSwitchStationMgmtEntry 6 }

-- StationStats Table
-- Station Statistics Table contains a summary of statistics collected by
the
-- switch. The stats are indexed by Station Mac and AP BSSID it is
associated
-- to.

wlsxSwitchStationStatsTable  OBJECT-TYPE
SYNTAX       SEQUENCE OF MxSwitchStationStatsEntry
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION
"This Table lists the statistics of all the wireless stations
associated with the Access points connected to this switch."
::= { wlsxUserInfoGroup 3 }

wlsxSwitchStationStatsEntry  OBJECT-TYPE
SYNTAX       MxSwitchStationStatsEntry
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION
"Station Statistics Entry"
INDEX {staPhyAddress, staAccessPointBSSID}
::= { wlsxSwitchStationStatsTable 1 }

MxSwitchStationStatsEntry ::= SEQUENCE {
    staTxPackets  Counter32,
    staTxBytes   Counter32,
    staRxPackets Counter32,
    staRxBytes  Counter32,
    staBwRate   Integer32,
    staFrameRetryRate Integer32,
    staFrameLowSpeedRate Integer32,
    staFrameNonUnicastRate Integer32,
    staFrameFragmentationRate Integer32,
staFrameReceiveErrorRate  Integer32

staTxPackets OBJECT-TYPE
   SYNTAX       Counter32
   MAX-ACCESS   read-only
   STATUS       current
   DESCRIPTION
     "Total Packets Transmitted by the station."
   ::= { wlsxSwitchStationStatsEntry 1 }

staTxBytes OBJECT-TYPE
   SYNTAX       Counter32
   MAX-ACCESS   read-only
   STATUS       current
   DESCRIPTION
     "Total Bytes Transmitted by the station."
   ::= { wlsxSwitchStationStatsEntry 2 }

staRxPackets OBJECT-TYPE
   SYNTAX       Counter32
   MAX-ACCESS   read-only
   STATUS       current
   DESCRIPTION
     "Total Packets Received by the Station"
   ::= { wlsxSwitchStationStatsEntry 3 }

staRxBytes OBJECT-TYPE
   SYNTAX       Counter32
   MAX-ACCESS   read-only
   STATUS       current
   DESCRIPTION
     "Total Bytes Received by the station."
   ::= { wlsxSwitchStationStatsEntry 4 }

staBwRate OBJECT-TYPE
   SYNTAX       Integer32
   MAX-ACCESS   read-only
   STATUS       current
   DESCRIPTION
     "Bandwidth Rate in Kbps of the station."
   ::= { wlsxSwitchStationStatsEntry 5 }
staFrameRetryRate OBJECT-TYPE
SYNTAX   Integer32
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
"Station Frame Retry Rate."
::= { wlsxSwitchStationStatsEntry 6 }

staFrameLowSpeedRate OBJECT-TYPE
SYNTAX   Integer32
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
"Station Frame Low Speed Rate."
::= { wlsxSwitchStationStatsEntry 7 }

staFrameNonUnicastRate OBJECT-TYPE
SYNTAX   Integer32
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
"Station Frame Non Unicast Packet Rate."
::= { wlsxSwitchStationStatsEntry 8 }

staFrameFragmentationRate OBJECT-TYPE
SYNTAX   Integer32
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
"Station Frame Fragmentation Rate."
::= { wlsxSwitchStationStatsEntry 9 }

staFrameReceiveErrorRate OBJECT-TYPE
SYNTAX   Integer32
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
"Station Frame Receive Error Rate"
::= { wlsxSwitchStationStatsEntry 10 }

-- wlsxAccessPointInfoGroup contains a Local Access Point Information Table.
-- which lists all the AP's connected to this switch, a Global AP Info Table
-- which lists all the AP's in the Domain. The Global table is valid only
-- on the Master switch. The Group also contains two scalar objects which
-- indicate the total number of AP's and the total number of Clients
connected.

wlsxSwitchTotalNumAccessPoints  OBJECT-TYPE
   SYNTAX       Unsigned32
   MAX-ACCESS   read-only
   STATUS       current
   DESCRIPTION
      "Total Number of Access Points Connected to this switch"
 ::= { wlsxAccessPointInfoGroup 1 }

wlsxSwitchTotalNumStationsAssociated  OBJECT-TYPE
   SYNTAX       Unsigned32
   MAX-ACCESS   read-only
   STATUS       current
   DESCRIPTION
      "Total Number of Stations Associated to this switch."
 ::= { wlsxAccessPointInfoGroup 2 }

-- Local Access Point Table.

wlsxSwitchAccessPointTable  OBJECT-TYPE
   SYNTAX       SEQUENCE OF MxSwitchAccessPointEntry
   MAX-ACCESS   not-accessible
   STATUS       current
   DESCRIPTION
      "This Table lists all the Access Points Connected to this switch."
       ""
 ::= { wlsxAccessPointInfoGroup 3 }

wlsxSwitchAccessPointEntry OBJECT-TYPE
   SYNTAX       MxSwitchAccessPointEntry
   MAX-ACCESS   not-accessible
   STATUS       current
   DESCRIPTION
      "Station Management Entry"
   INDEX {apBSSID}
 ::= { wlsxSwitchAccessPointTable 1 }

MxSwitchAccessPointEntry ::= SEQUENCE {

apBSSID
  apESSID
  apSlot
  apPort
  apIpAddress
  apPhyType
  apType
  apCurrentChannel
  apLocation
  apTotalTime
  apInactiveTime
  apLoadBalancing

apBSSID OBJECT-TYPE
SYNTAX        MacAddress
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION   "The Physical Address of the Access Point."
::= { wlsxSwitchAccessPointEntry 1 }

apESSID OBJECT-TYPE
SYNTAX        DisplayString(SIZE(0..64))
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION   "ESSID of the Access Point"
::= { wlsxSwitchAccessPointEntry 2 }

apSlot OBJECT-TYPE
SYNTAX        Unsigned32
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION   "Slot to which the Access Point is connected."
::= { wlsxSwitchAccessPointEntry 3 }

apPort OBJECT-TYPE
SYNTAX        Unsigned32
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION   "Port to which the Access Point is connected."
::= { wlsxSwitchAccessPointEntry 4 }

apIpAddress OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Address of the Access Point."
::= { wlsxSwitchAccessPointEntry 5 }

apPhyType OBJECT-TYPE
SYNTAX INTEGER{
    dot11a(1),
    dot11b(2),
    dot11g(3)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Physical Layer Protocol support of the AP."
::= { wlsxSwitchAccessPointEntry 6 }

apType OBJECT-TYPE
SYNTAX INTEGER{
    ap(1),
    am(2)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Indicates whether the Access point is an Air Monitor or regular AP."
::= { wlsxSwitchAccessPointEntry 7 }

apCurrentChannel OBJECT-TYPE
SYNTAX INTEGER(1..165)
MAX-ACCESS read-only
STATUS current
DESCRIPTION "The Current Operating frequency channel."
::= { wlsxSwitchAccessPointEntry 8 }

apLocation OBJECT-TYPE
SYNTAX DisplayString(SIZE(0..32))
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Location of the AP defined in Building.Floor.... mode."
::= { wlsxSwitchAccessPointEntry 9 }

apTotalTime OBJECT-TYPE
SYNTAX TimeTicks
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Time since the Ap is connected to the switch"
::= { wlsxSwitchAccessPointEntry 10 }

apInactiveTime OBJECT-TYPE
SYNTAX TimeTicks
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Time since the Ap has been inactive"
::= { wlsxSwitchAccessPointEntry 11 }

apLoadBalancing OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Indicates whether Load balancing is enabled or not."
::= { wlsxSwitchAccessPointEntry 12 }

--Global AP Table
wlsxSwitchGlobalAPTable OBJECT-TYPE
SYNTAX SEQUENCE OF MxSwitchGlobalAPEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "This Table lists all the Access Points Connected in the Switch Domain. This table is valid only on a Master switch. On a Local switch, the table is empty."
::= { wlsxAccessPointInfoGroup 4 }

wlsxSwitchGlobalAPEntry OBJECT-TYPE
SYNTAX       MxSwitchGlobalAPEntry
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION  "Station Management Entry"
INDEX {globalAPLocation, globalAPAddress}
::= { wlsxSwitchGlobalAPTable 1 }

MxSwitchGlobalAPEntry ::= SEQUENCE {
    globalAPLocation DisplayString,
    globalAPAddress   IpAddress,
    globalAPLocalSwitch IpAddress,
    globalAPdot11aPhyAddr MacAddress,
    globalAPdot11bPhyAddr MacAddress,
    globalAPState     INTEGER,
    globalAPdot11gPhyAddr MacAddress
}

globalAPLocation OBJECT-TYPE
SYNTAX       DisplayString(SIZE(0..32))
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION  "Physical Location of the AP, defined in Building.Floor.Location format."
::= { wlsxSwitchGlobalAPEntry 1 }

globalAPAddress OBJECT-TYPE
SYNTAX       IpAddress
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION  "Address of the Access Point."
::= { wlsxSwitchGlobalAPEntry 2 }

globalAPLocalSwitch OBJECT-TYPE
SYNTAX       IpAddress
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION  "IP Address of the Local Switch this Access Point is connected to."
::= { wlsxSwitchGlobalAPEntry 3 }
globalAPdot11aPhyAddr OBJECT-TYPE
SYNTAX       MacAddress
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"Physical Mac address of the module supporting dot11a in the
Access Point. AP can have support for both dot11a and dot11b
physical layer."
::= { wlsxSwitchGlobalAPEntry 4 }

globalAPdot11bPhyAddr OBJECT-TYPE
SYNTAX       MacAddress
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"Physical Mac address of the module supporting dot11b in the
Access Point. AP can have support for both dot11a and dot11b
physical layer."
::= { wlsxSwitchGlobalAPEntry 5 }

globalAPState OBJECT-TYPE
SYNTAX       INTEGER(1..7)
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"State of the AP.
1 -- AP is UP.
2 -- AP is DOWN.
3-7 -- Values are deprecated."
::= { wlsxSwitchGlobalAPEntry 6 }

globalAPdot11gPhyAddr OBJECT-TYPE
SYNTAX       MacAddress
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"Physical Mac address of the module supporting dot11g in the
Access Point. AP can have support for both a,b,g
physical layer."
::= { wlsxSwitchGlobalAPEntry 7 }

-- Local AP Stats.
Aruba Enterprise MIB Traps

wlsxSwitchAccessPointStatsTable OBJECT-TYPE
SYNTAX SEQUENCE OF MxSwitchAccessPointStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This Table lists the statistics of all the Access Points
Connected to this switch."
 ::= { wlsxAccessPointInfoGroup 5 }

wlsxSwitchAccessPointStatsEntry OBJECT-TYPE
SYNTAX MxSwitchAccessPointStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Ap Stats Entry."
INDEX {apBSSID}
 ::= { wlsxSwitchAccessPointStatsTable 1 }

MxSwitchAccessPointStatsEntry ::= SEQUENCE {
apStatsChannel INTEGER,
apChannelBwRate Integer32,
apChannelFrameRetryRate Integer32,
apChannelFrameLowSpeedRate Integer32,
apChannelFrameNonUnicastRate Integer32,
apChannelFrameFragmentationRate Integer32,
apChannelFrameReceiveErrorRate Integer32,
apBSSTxPackets Counter32,
apBSSTxBytes Counter32,
apBSSRxPackets Counter32,
apBSSRxBytes Counter32,
apBSSBwRate Integer32,
apBSSFrameRetryRate Integer32,
apBSSFrameLowSpeedRate Integer32,
apBSSFrameNonUnicastRate Integer32,
apBSSFrameFragmentationRate Integer32,
apBSSFrameReceiveErrorRate Integer32
}
apStatsChannel OBJECT-TYPE
SYNTAX INTEGER(1..165)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Channel on which the ap is operating."
::= { wlsxSwitchAccessPointStatsEntry 1 }

apChannelBwRate OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Bandwidth Rate in Kbps of the apChannel."
::= { wlsxSwitchAccessPointStatsEntry 2 }

apChannelFrameRetryRate OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Ap Channel Frame Retry Rate."
::= { wlsxSwitchAccessPointStatsEntry 3 }

apChannelFrameLowSpeedRate OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Ap Channel Frame Low Speed Rate."
::= { wlsxSwitchAccessPointStatsEntry 4 }

apChannelFrameNonUnicastRate OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Ap Channel Frame Non Unicast Packet Rate."
::= { wlsxSwitchAccessPointStatsEntry 5 }

apChannelFrameFragmentationRate OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Ap Channel Frame Fragmentation Rate."
::= { wlsxSwitchAccessPointStatsEntry 6 }
apChannelFrameReceiveErrorRate OBJECT-TYPE
SYNTAX       Integer32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"Ap Channel Frame Receive Error Rate."
::= {  wlsxSwitchAccessPointStatsEntry 7 }

apBSSTxPackets OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"Total Packets Transmitted by the ap on this BSSID."
::= { wlsxSwitchAccessPointStatsEntry 8 }

apBSSTxBytes OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"Total Bytes Transmitted by the ap on this BSSID."
::= { wlsxSwitchAccessPointStatsEntry 9 }

apBSSRxPackets OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"Total Packets Received by the ap on this BSSID"
::= { wlsxSwitchAccessPointStatsEntry 10 }

apBSSRxBytes OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"Total Bytes Received by the ap on this BSSID."
::= { wlsxSwitchAccessPointStatsEntry 11 }

apBSSBwRate OBJECT-TYPE
SYNTAX       Integer32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"Bandwidth Rate in Kbps of the ap on this BSSID."
::= { wlsxSwitchAccessPointStatsEntry 12 }

apBSSFrameRetryRate OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Frame Retry Rate on this BSSID."
::= { wlsxSwitchAccessPointStatsEntry 13 }

apBSSFrameLowSpeedRate OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Frame Low Speed Rate on this BSSID."
::= { wlsxSwitchAccessPointStatsEntry 14 }

apBSSFrameNonUnicastRate OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Frame Non Unicast Packet Rate on this BSSID."
::= { wlsxSwitchAccessPointStatsEntry 15 }

apBSSFrameFragmentationRate OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Frame Fragmentation Rate on this BSSID."
::= { wlsxSwitchAccessPointStatsEntry 16 }

apBSSFrameReceiveErrorRate OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Frame Receive Error Rate on this BSSID."
::= { wlsxSwitchAccessPointStatsEntry 17 }
-- wlsxSwitchTraps
-- This group defines all the traps related to the switch platform.

wlsxSwitchTrapObjectsGroup OBJECT IDENTIFIER ::= { wlsxSwitchTraps 100 }

wlsxAuthServerName OBJECT-TYPE
SYNTAX       DisplayString(SIZE(0..64))
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
 "This Object is used in the traps to indicate the Authentication
 Server, used for Authentication."
 ::= { wlsxSwitchTrapObjectsGroup 1 }

wlsxAuthServerTimeout OBJECT-TYPE
SYNTAX       Integer32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
 "This Object is used in the traps to indicate the Authentication
 Server Timeout."
 ::= { wlsxSwitchTrapObjectsGroup 2 }

wlsxFanNumber OBJECT-TYPE
SYNTAX       Integer32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
 "This Object is used in the traps to indicate a failing fan
 number."
 ::= { wlsxSwitchTrapObjectsGroup 4 }

wlsxLineCardNumber OBJECT-TYPE
SYNTAX       Integer32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
 "This Object is used in the traps to indicate a Line Card in the
 switch."
 ::= { wlsxSwitchTrapObjectsGroup 5 }
wlsxVoltageType  OBJECT-TYPE
SYNTAX       DisplayString(SIZE(0..32))
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
 "This Object is used in the traps to indicate the type of the
 voltage."
 ::= { wlsxSwitchTrapObjectsGroup 6 }

wlsxVoltageValue  OBJECT-TYPE
SYNTAX       DisplayString(SIZE(0..10))
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
 "This Object is used in the traps to indicate the voltage value in
 Float."
 ::= { wlsxSwitchTrapObjectsGroup 7 }

wlsxTemperatureValue  OBJECT-TYPE
SYNTAX       DisplayString(SIZE(0..64))
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
 "This Object is used in the traps to indicate Temperature Value."
 ::= { wlsxSwitchTrapObjectsGroup 8 }

wlsxProcessName  OBJECT-TYPE
SYNTAX       DisplayString(SIZE(0..64))
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
 "This Object is used in the traps to indicate a process name."
 ::= { wlsxSwitchTrapObjectsGroup 9 }

wlsxStationMacAddress  OBJECT-TYPE
SYNTAX       MacAddress
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"The Physical Address of the Station."
 ::= { wlsxSwitchTrapObjectsGroup 10 }

wlsxStationBlackListReason OBJECT-TYPE
   SYNTAX INTEGER {
       userDefined(1),
       mitmAttack(2),
       authFailure(3),
       pingFlood(4),
       sessionFlood(5),
       synFlood(6),
       sessionBlacklist(7),
       ipSpoofing(8),
       other(100)
   }
   MAX-ACCESS read-only
   STATUS current
   DESCRIPTION
      "The Reason for which a station is black listed."
 ::= { wlsxSwitchTrapObjectsGroup 11 }

wlsxSpoofedIpAddress OBJECT-TYPE
   SYNTAX IpAddress
   MAX-ACCESS read-only
   STATUS current
   DESCRIPTION
      "This Object is used in a trap to identify a Spoofed IP Address."
 ::= { wlsxSwitchTrapObjectsGroup 12 }

wlsxSpoofedOldPhyAddress OBJECT-TYPE
   SYNTAX MacAddress
   MAX-ACCESS read-only
   STATUS current
   DESCRIPTION
      "This Object is used in a trap to identify a Old Mac Address."
 ::= { wlsxSwitchTrapObjectsGroup 13 }

wlsxSpoofedNewPhyAddress OBJECT-TYPE
   SYNTAX MacAddress
   MAX-ACCESS read-only
   STATUS current
   DESCRIPTION
      "This Object is used in a trap to identify a New Mac Address."
 ::= { wlsxSwitchTrapObjectsGroup 14 }
wlsxDBName OBJECT-TYPE
SYNTAX DisplayString(SIZE(0..64))
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This Object is used in a trap to identify name of the Database."
 ::= { wlsxSwitchTrapObjectsGroup 15 }

wlsxDBUserName OBJECT-TYPE
SYNTAX DisplayString(SIZE(0..64))
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This Object is used in a trap to identify name of the Database user."
 ::= { wlsxSwitchTrapObjectsGroup 16 }

wlsxDBIpAddress OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This Object is used in a trap to identify the IpAddress of the DB."
 ::= { wlsxSwitchTrapObjectsGroup 17 }

wlsxDBType OBJECT-TYPE
SYNTAX INTEGER{ mssql(1), mysql(2) }
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This Object is used in a trap to identify the Port of the user."
 ::= { wlsxSwitchTrapObjectsGroup 18 }

wlsxVrID OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This Object contains the Virtual Router Identifier."
::= { wlsxSwitchTrapObjectsGroup 19 }

wlsxVrMasterIp OBJECT-TYPE
SYNTAX       IpAddress
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This Object contains the Master IP address."
 ::= { wlsxSwitchTrapObjectsGroup 20 }

wlsxVrrpOperState OBJECT-TYPE
SYNTAX       INTEGER {
    initialize(1),
    backup(2),
    master(3)
}
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This Object represents the VRRP operational state."
 ::= { wlsxSwitchTrapObjectsGroup 21 }

wlsxApTxPower OBJECT-TYPE
SYNTAX       Integer32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This Object contains the value of the AP Transmit Power."
 ::= { wlsxSwitchTrapObjectsGroup 22 }

wlsxESIServerGrpName OBJECT-TYPE
SYNTAX       DisplayString(SIZE(0..64))
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This Object represents the External Services Interface (ESI) Server Group name"
 ::= { wlsxSwitchTrapObjectsGroup 23 }

wlsxESIServerName OBJECT-TYPE
SYNTAX       DisplayString(SIZE(0..64))
MAX-ACCESS   read-only
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-- Trap Definitions.

wlsxSwitchIPChanged NOTIFICATION-TYPE
  OBJECTS {wlsxSwitchIp}
  STATUS current
  DESCRIPTION
  "A trap which indicates that the switch IP address has changed."
  ::= { wlsxSwitchTraps 1001 }

wlsxSwitchRoleChange NOTIFICATION-TYPE
  OBJECTS {wlsxSwitchRole}
  STATUS current
  DESCRIPTION
  "A trap which indicates that the role of the switch has changed in
  the Domain."
  ::= { wlsxSwitchTraps 1002 }

-- Authentication Traps.

wlsxUserEntryCreated NOTIFICATION-TYPE
  OBJECTS {userPhyAddress}
STATUS current
DESCRIPTION
"A trap which indicates that a New user is created."
::= { wlsxSwitchTraps 1003 }

wlsxUserEntryDeleted NOTIFICATION-TYPE
OBJECTS {userPhyAddress}
STATUS current
DESCRIPTION
"A trap which indicates that a user is deleted."
::= { wlsxSwitchTraps 1004 }

wlsxUserEntryAuthenticated NOTIFICATION-TYPE
OBJECTS {userPhyAddress, userName, userAuthenticationMethod, userRole}
STATUS current
DESCRIPTION
"A trap which indicates that a user is Authenticated."
::= { wlsxSwitchTraps 1005 }

wlsxUserEntryDeAuthenticated NOTIFICATION-TYPE
OBJECTS {userPhyAddress}
STATUS current
DESCRIPTION
"A trap which indicates that a user is Deauthenticated."
::= { wlsxSwitchTraps 1006 }

wlsxUserAuthenticationFailed NOTIFICATION-TYPE
OBJECTS {userPhyAddress}
STATUS current
DESCRIPTION
"A trap which indicates that a user authentication has failed."
::= { wlsxSwitchTraps 1007 }

wlsxAuthServerReqTimedOut NOTIFICATION-TYPE
OBJECTS {wlsxAuthServerName}
STATUS current
DESCRIPTION
"A trap which indicates that the authentication server request timed out."
::= { wlsxSwitchTraps 1008 }
Aruba Enterprise MIB Traps

wlsxAuthServerTimedOut NOTIFICATION-TYPE
  OBJECTS {wlsxAuthServerName, wlsxAuthServerTimeout}
  STATUS  current
  DESCRIPTION
    "A trap which indicates that the authentication server timed out."
  ::= { wlsxSwitchTraps 1009 }

wlsxAuthServerIsUp NOTIFICATION-TYPE
  OBJECTS {wlsxAuthServerName}
  STATUS  current
  DESCRIPTION
    "A trap which indicates that the authentication server is up."
  ::= { wlsxSwitchTraps 1010 }

wlsxAuthMaxUserEntries NOTIFICATION-TYPE
  STATUS  current
  DESCRIPTION
    "A trap which indicates that the User Entries table is full and cannot add any more entries."
  ::= { wlsxSwitchTraps 1011 }

wlsxAuthMaxAclEntries NOTIFICATION-TYPE
  STATUS  current
  DESCRIPTION
    "A trap which indicates that the Acl Entries table is full and cannot add any more entries."
  ::= { wlsxSwitchTraps 1012 }

wlsxAuthMaxBWContracts NOTIFICATION-TYPE
  STATUS  current
  DESCRIPTION
    "A trap which indicates that the switch reached the maximum number of configurable Bandwidth contracts."
  ::= { wlsxSwitchTraps 1013 }

-- Platform Traps.

wlsxPowerSupplyFailure NOTIFICATION-TYPE
  STATUS  current
  DESCRIPTION
    "A trap which indicates that the power supply has failed."
::= { wlsxSwitchTraps 1014 }

wlsxFanFailure NOTIFICATION-TYPE
OBJECTS {wlsxFanNumber}
STATUS current
DESCRIPTION
   "A trap which indicates that the fan has failed."
::= { wlsxSwitchTraps 1015 }

wlsxOutOfRangeVoltage NOTIFICATION-TYPE
OBJECTS {wlsxVoltageType, wlsxVoltageValue}
STATUS current
DESCRIPTION
   "A trap which indicates that the switch received out of range voltage."
::= { wlsxSwitchTraps 1016 }

wlsxOutOfRangeTemperature NOTIFICATION-TYPE
OBJECTS {wlsxTemperatureValue}
STATUS current
DESCRIPTION
   "A trap which indicates that the Temperature is out of bounds."
::= { wlsxSwitchTraps 1017 }

wlsxLCInserted NOTIFICATION-TYPE
OBJECTS {wlsxLineCardNumber}
STATUS current
DESCRIPTION
   "A trap which indicates that a Line card is inserted."
::= { wlsxSwitchTraps 1018 }

wlsxSCInserted NOTIFICATION-TYPE
STATUS current
DESCRIPTION
   "A trap which indicates that a supervisory card is inserted."
::= { wlsxSwitchTraps 1019 }

wlsxGBICInserted NOTIFICATION-TYPE
STATUS current
DESCRIPTION
   "A trap which indicates that a GBIC is inserted in a line card."
::= { wlsxSwitchTraps 1020 }
wlsxProcessDied NOTIFICATION-TYPE
  OBJECTS {wlsxProcessName}
  STATUS current
  DESCRIPTION
    "A trap which indicates that a process has died."
  ::= { wlsxSwitchTraps 1021 }

wlsxProcessExceedsMemoryLimits NOTIFICATION-TYPE
  OBJECTS {wlsxProcessName}
  STATUS current
  DESCRIPTION
    "A trap which indicates that a process is consuming large
    amounts of memory."
  ::= { wlsxSwitchTraps 1022 }

wlsxLowOnFlashSpace NOTIFICATION-TYPE
  STATUS current
  DESCRIPTION
    "A trap which indicates that the switch is running low on flash
    space."
  ::= { wlsxSwitchTraps 1023 }

wlsxLowMemory NOTIFICATION-TYPE
  STATUS current
  DESCRIPTION
    "A trap which indicates that the system free memory is low."
  ::= { wlsxSwitchTraps 1024 }

wlsxFanTrayRemoved NOTIFICATION-TYPE
  STATUS current
  DESCRIPTION
    "A trap which indicates that the fan tray is removed."
  ::= { wlsxSwitchTraps 1025 }

wlsxFanTrayInserted NOTIFICATION-TYPE
  STATUS current
  DESCRIPTION
    "A trap which indicates that the fan tray is removed."
  ::= { wlsxSwitchTraps 1026 }

wlsxLCRemoved NOTIFICATION-TYPE
  OBJECTS {wlsxLineCardNumber}
  STATUS current
  DESCRIPTION

"A trap which indicates that a Line card is removed."
::= { wlsxSwitchTraps 1027 }

wlsxSCRplayed NOTIFICATION-TYPE
  STATUS  current
  DESCRIPTION
    "A trap which indicates that a supervisory card is removed."
  ::= { wlsxSwitchTraps 1028 }

wlsxPowerSupplyMissing NOTIFICATION-TYPE
  STATUS  current
  DESCRIPTION
    "A trap which indicates that the power supply is missing."
  ::= { wlsxSwitchTraps 1029 }

-- Access point up/down traps.

wlsxAccessPointIsUp NOTIFICATION-TYPE
  OBJECTS {apLocation, apIpAddress}
  STATUS  current
  DESCRIPTION
    "A trap which indicates that an Access point at Location apLocation
    and Address apIpAddress is up."
  ::= { wlsxSwitchTraps 1030 }

wlsxAccessPointIsDown NOTIFICATION-TYPE
  OBJECTS {apLocation, apIpAddress}
  STATUS  current
  DESCRIPTION
    "A trap which indicates that an Access point at Location
    apLocation and Address apIpAddress is down."
  ::= { wlsxSwitchTraps 1031 }

wlsxCoverageHoleDetected NOTIFICATION-TYPE
  OBJECTS {apLocation, apIpAddress, wlsxStationMacAddress}
  STATUS  current
  DESCRIPTION
    "A trap which indicates that an Access point at Location
    apLocation and Address apIpAddress has detected a Coverage Hole."
  ::= { wlsxSwitchTraps 1032 }

wlsxChannelChanged NOTIFICATION-TYPE
OBJECTS {apLocation, apIpAddress, apCurrentChannel}
STATUS deprecated
DESCRIPTION
   "A trap which indicates that an Access point at Location
    apLocation and Address apIpAddress has changed the channel to
    apCurrentChannel."
 ::= { wlsxSwitchTraps 1033}

wlsxStationAddedToBlackList NOTIFICATION-TYPE
OBJECTS {wlsxStationMacAddress, wlsxStationBlackListReason}
STATUS current
DESCRIPTION
   "A trap which indicates that a station with address
    wlsxStationMacAddress is black listed for
    wlsxStationBlackListReason reason."
 ::= { wlsxSwitchTraps 1034}

wlsxStationRemovedFromBlackList NOTIFICATION-TYPE
OBJECTS {wlsxStationMacAddress}
STATUS current
DESCRIPTION
   "A trap which indicates that a station with address
    wlsxStationMacAddress is removed from black list."
 ::= { wlsxSwitchTraps 1035}

wlsxIpSpoofingDetected NOTIFICATION-TYPE
OBJECTS {wlsxSpoofedIpAddress, wlsxSpoofedOldPhyAddress,
           wlsxSpoofedNewPhyAddress}
STATUS current
DESCRIPTION
   "A trap indicating that the switch detected IP Spoofing."
 ::= { wlsxSwitchTraps 1036}

wlsxDBCommunicationFailure NOTIFICATION-TYPE
OBJECTS {wlsxDBName, wlsxDBUserName, wlsxDBIpAddress, wlsxDBType}
STATUS current
DESCRIPTION
   "A trap to indicate that communication with Database failed."
 ::= { wlsxSwitchTraps 1037}

wlsxVrrpStateChange NOTIFICATION-TYPE
OBJECTS {wlsxVrID, wlsxVrMasterIp, wlsxVrrpOperState}
STATUS current
DESCRIPTION
"A trap which indicates that VRRP State has changed on the switch."
::= { wlsxSwitchTraps 1038}

wlsxAPRadioAttributesChanged NOTIFICATION-TYPE
OBJECTS {apLocation, apIpAddress, apCurrentChannel, wlsxApTxPower}
STATUS current
DESCRIPTION
"A trap which indicates changes in the Radio attributes of an Access Point at location apLocation and address apIpAddress. Ap channel is apCurrentChannel, and Transmit power is apTxPower."
::= { wlsxSwitchTraps 1039}

wlsxESIServerUp NOTIFICATION-TYPE
OBJECTS {wlsxESIServerGrpName, wlsxESIServerName, wlsxESIServerIpaddress}
STATUS current
DESCRIPTION
"A trap which indicates that a ESI server <wlsxESIServerName> in group <wlsxESIServerGrpName> with <wlsxESIServerIpaddress> is up"
::= { wlsxSwitchTraps 1040}

wlsxESIServerDown NOTIFICATION-TYPE
OBJECTS {wlsxESIServerGrpName, wlsxESIServerName, wlsxESIServerIpaddress}
STATUS current
DESCRIPTION
"A trap which indicates that a ESI server <wlsxESIServerName> in group <wlsxESIServerGrpName> with <wlsxESIServerIpaddress> is down"
::= { wlsxSwitchTraps 1041}

wlsxLicenseExpiry NOTIFICATION-TYPE
OBJECTS {wlsxLicenseDaysRemaining}
STATUS current
DESCRIPTION
"A trap which indicates that one or more licenses on the switch will expire in <wlsxLicenseDaysRemaining> days"
::= { wlsxSwitchTraps 1042}

END
Aruba Access Point Traps

WLSR-AP-MIB DEFINITIONS ::= BEGIN

IMPORTS
  TEXTUAL-CONVENTION,
  MODULE-IDENTITY,
  OBJECT-TYPE,
  snmpModules,
  Integer32,
  Counter32,
  IpAddress,
  NOTIFICATION-TYPE
  FROM SNMPv2-SMI

  TDomain,
  DisplayString,
  PhysAddress,
  TAddress,
  TimeInterval,
  RowStatus,
  StorageType,
  TestAndIncr,
  MacAddress,
  TruthValue
  FROM SNMPv2-TC

OBJECT-GROUP
  FROM SNMPv2-CONF
  wlsrEnterpriseMibModules
  FROM ARUBA-MIB;

wlsrMIB MODULE-IDENTITY
  LAST-UPDATED "0410271730Z"
  ORGANIZATION "Aruba Wireless Networks"
  CONTACT-INFO
  "Postal:    1322 Crossman Avenue
             Sunnyvale, CA 94089
             E-mail:    dl-support@arubanetworks.com
             Phone:     +1 408 227 4500"
  DESCRIPTION
  "This MIB is for managing the Access Points and Air Monitors."
  REVISION        "0410271730Z"
DESCRIPTION
"The initial revision."
::= { wlsrEnterpriseMibModules 1 }

wlsrConfigGroup OBJECT IDENTIFIER ::= { wlsrMIB 1 }
wlsrStatsGroup OBJECT IDENTIFIER ::= { wlsrMIB 3 }
wlsrAirMonitorGroup OBJECT IDENTIFIER ::= { wlsrMIB 4 }
wlsrTrapsGroup OBJECT IDENTIFIER ::= { wlsrMIB 100 }

-- wlsrConfigGroup contains objects to describe the Current AP
-- Configuration.

-- wlsrConfigTable contains all the configuration data of an AP.
-- Each row in the table will represent a wifi interface.

wlsrConfigTable OBJECT-TYPE
SYNTAX SEQUENCE OF WlsrConfigEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
" Table will list the configuration data of a wifi interface."
::= { wlsrConfigGroup 1 }

wlsrConfigEntry OBJECT-TYPE
SYNTAX WlsrConfigEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
" A Wifi configuration entry "
INDEX { wlsrBSSID }
::= { wlsrConfigTable 1 }

WlsrConfigEntry ::= SEQUENCE {
    wlsrBSSID MacAddress,
    wlsrESSID DisplayString,
    wlsrMode INTEGER,
    wlsrCurrentChannel INTEGER,
    wlsrTxPower Integer32,
    wlsrRTSThreshold INTEGER,
    wlsrRetryLimit INTEGER,
    wlsrPreamble INTEGER,
    wlsrBeaconInterval INTEGER,
    wlsrPowerMgmt INTEGER,
}
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wlsrLoadBalance INTEGER ,
wlsrSupportedRates BITS ,
wlsrDTIMPeriod INTEGER ,
wlsrLMSAddress IpAddress ,
wlsrEncryption BITS ,
wlsrStatus TruthValue ,
wlsrAgeout Integer32 ,
wlsrMTU INTEGER ,
wlsrLocation DisplayString ,
wlsrHideSSID TruthValue ,
wlsrDenyBroadcast TruthValue ,
wlsrBGmode INTEGER ,
wlsrCardType INTEGER ,
wlsrRegDomain Integer32 ,
wlsrCountryCode DisplayString

}
wlsrBSSID OBJECT-TYPE
SYNTAX MacAddress
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "BSSID of the WIFI Interface"
::= { wlsrConfigEntry 1 }
wlsrESSID OBJECT-TYPE
SYNTAX DisplayString (SIZE(0..64))
MAX-ACCESS read-only
STATUS current
DESCRIPTION " ESSID of the WIFI Interface"
::= { wlsrConfigEntry 2 }
wlsrMode OBJECT-TYPE
SYNTAX INTEGER {
    master(1),
    adhoc(2),
    monitor(3)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Mode of the Access Point. Master indicates that we are operating as Access Point. monitor indicates that the
AP is an Air Monitor.

::= { wlsrConfigEntry 3 }

wlsrCurrentChannel OBJECT-TYPE
SYNTAX INTEGER (1..165)
MAX-ACCESS read-only
STATUS current
DESCRIPTION "The current operating frequency channel of the DSSS PHY."
::= { wlsrConfigEntry 4 }

wlsrTxPower OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Transmit power of the Access point. The value is between 0 ... 4"
::= { wlsrConfigEntry 5 }

wlsrRTSThreshold OBJECT-TYPE
SYNTAX INTEGER (0..2347)
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This attribute shall indicate the number of octets in an MPDU, below which an RTS/CTS handshake shall not be performed."
::= { wlsrConfigEntry 6 }

wlsrRetryLimit OBJECT-TYPE
SYNTAX INTEGER (1..255)
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This attribute shall indicate the maximum number of transmission attempts of a frame, the length of which is less than or equal to dot11RTSThreshold, that shall be made before a failure condition is indicated. The default value of this attribute shall be 7."
::= { wlsrConfigEntry 7 }

wlsrPreamble OBJECT-TYPE
SYNTAX INTEGER {
    short(1),
    long(2)}
wlsrBeaconInterval OBJECT-TYPE
SYNTAX INTEGER (1..65535)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object 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."
::= { wlsrConfigEntry 9 }

wlsrPowerMgmt OBJECT-TYPE
SYNTAX INTEGER {
   enable(1),
   disable(2)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates whether Power Management is enabled
or not."
::= { wlsrConfigEntry 10 }

wlsrLoadBalance OBJECT-TYPE
SYNTAX INTEGER {
   enable(1),
   disable(2)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates if load balancing is enabled or
disabled."
::= { wlsrConfigEntry 11 }

wlsrSupportedRates OBJECT-TYPE
SYNTAX BITS {

rate1Mbps(0),
rate2Mbps(1),
ratesMbps(2),
rates11Mbps(3),
rates6Mbps(4),
rates9Mbps(5),
rates12Mbps(6),
rates18Mbps(7),
rates24Mbps(8),
rates36Mbps(9),
rates48Mbps(10),
rates54Mbps(11)
}

MAX-ACCESS   read-only
STATUS       current
DESCRIPTION  "Transmit Bit rates supported by this WIFI interface."
::= { wlsrConfigEntry 12 }

wlsrDTIMPeriod OBJECT-TYPE
SYNTAX      INTEGER (1..255)
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION  "This attribute shall specify the number of beacon intervals that shall elapse between transmission of Beacons frames containing a TIM element whose DTIM Count field is 0. This value is transmitted in the DTIM Period field of Beacon frames."
::= { wlsrConfigEntry 13 }

wlsrLMSAddress OBJECT-TYPE
SYNTAX      IpAddress
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION  "This attribute indicates the IP Address of the Local switch that the AP is connected to."
::= { wlsrConfigEntry 14 }

wlsrEncryption OBJECT-TYPE
SYNTAX      BITS{
disabled(0),
staticWep(1),
dynamicWep(2),
staticTkip(3),
dynamicTkip(4),
aes(5)
}

MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This attribute indicates the Encryption type of the WIFI interface."
::= { wlsrConfigEntry 15 }

wlsrStatus OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This attribute indicates the status of the WIFI Interface."
::= { wlsrConfigEntry 17 }

wlsrAgeout OBJECT-TYPE
SYNTAX      Integer32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This attribute indicates the ageout value in seconds."
::= { wlsrConfigEntry 18 }

wlsrMTU OBJECT-TYPE
SYNTAX      INTEGER (0..2347)
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This attribute indicates the MTU of the WIFI Interface."
::= { wlsrConfigEntry 19 }

wlsrLocation OBJECT-TYPE
SYNTAX      DisplayString (SIZE(0..32))
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This attribute indicates the Location of the Access Point in Building.Floor.location format."
::= { wlsrConfigEntry 20 }

wlsrHideSSID OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This attribute indicates if SSID is hidden or not."
::= { wlsrConfigEntry 21 }

wlsrDenyBroadcast OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION "A True value indicates that Broadcast is disabled."
::= { wlsrConfigEntry 22 }

wlsrBGmode OBJECT-TYPE
SYNTAX INTEGER{
    bgMixed(1),
    bOnly(2),
    gOnly(3)
} 
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This attribute indicates the mode of the WIFI Interface"
::= { wlsrConfigEntry 23 }

wlsrCardType OBJECT-TYPE
SYNTAX INTEGER {
    noCard(1),
    intersil(2),
    atherosA(3),
    atherosABG(4)
} 
MAX-ACCESS read-only
STATUS current
DESCRIPTION "A True value indicates that Broadcast is disabled."
::= { wlsrConfigEntry 24 }

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

"This Object represents the configured Regulatory Domain this AP will adhere to.
1 -- US
2 -- JAPAN
3 -- EU
4 -- EU2
5 -- EU3
6 -- KOREA
7 -- CHINA
8 -- France
9 -- Singapore
10 -- MALAY
11 -- BRAZIL
12 -- Taiwan
13 -- Czech Republic
14 -- GR
15 -- South Africa
16 -- Argentina
17 -- Australia
18 -- Chile"

::= { wlsrConfigEntry 25 }

wlsrCountryCode OBJECT-TYPE
SYNTAX  DisplayString (SIZE(0..64))
MAX-ACCESS  read-only
STATUS  current
DESCRIPTION
"This Object represents the configured Country code ."
::= { wlsrConfigEntry 26 }

-- wlsrStatsGroup All the Statistics stored by the Access Point.

-- Channel Statistics Group contains all the statistics related to a channel.

-- wlsrChannelStatsTable will contain all the Aggregate statistics collected on a channel
wlsrStatsChannelGroup OBJECT IDENTIFIER ::= { wlsrStatsGroup 3 }

wlsrChannelStatsTable OBJECT-TYPE
SYNTAX SEQUENCE OF WlsrChannelStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "Table contains the Channel Statistics."
::= { wlsrStatsChannelGroup 1 }

WlsrChannelStatsEntry ::= SEQUENCE {
    wlsrChStatsChannel INTEGER ,
    wlsrChStatsNumAPs Integer32 ,
    wlsrChStatsNumStations Integer32 ,
    wlsrChStatsTotPkts Counter32 ,
    wlsrChStatsTotBytes Counter32 ,
    wlsrChStatsTotRetryPkts Counter32 ,
    wlsrChStatsTotFragmentedPkts Counter32 ,
    wlsrChStatsTotPhyErrPkts Counter32 ,
    wlsrChStatsFrameErrorRate Integer32 ,
    wlsrChStatsFrameRetryRate Integer32 ,
    wlsrChStatsFrameLowSpeedRate Integer32 ,
    wlsrChStatsFrameNonUnicastRate Integer32 ,
    wlsrChStatsFrameBandwidthRate Integer32 ,
    wlsrChStatsFrameFragmentationRate Integer32 ,
    wlsrChStatsMonitoredTime TimeTicks
}

wlsrChStatsChannel OBJECT-TYPE
SYNTAX INTEGER (1..165)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The frequency Channel on which these statistics are collected."
::= { wlsrChannelStatsEntry 1 }

wlsrChStatsNumAPs OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of APs using this channel."
::= { wlsrChannelStatsEntry 2 }

wlsrChStatsNumStations OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of stations using this channel."
::= { wlsrChannelStatsEntry 3 }

wlsrChStatsTotPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total packets observed on this channel."
::= { wlsrChannelStatsEntry 4 }

wlsrChStatsTotBytes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total Bytes observed on this channel."
::= { wlsrChannelStatsEntry 5 }
wlsrChStatsTotRetryPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total Retry Packets observed on this channel."
::= { wlsrChannelStatsEntry 6 }

wlsrChStatsTotFragmentedPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total Fragmented Packets observed on this channel."
::= { wlsrChannelStatsEntry 7 }

wlsrChStatsTotPhyErrPkt OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total Physical Error Packets observed on this channel."
::= { wlsrChannelStatsEntry 8 }

wlsrChStatsTotMacErrPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total Mac errors packets observed on this channel."
::= { wlsrChannelStatsEntry 9 }

wlsrChStatsFrameErrorRate OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Frame errors as a percentage of total frames on this channel."
::= { wlsrChannelStatsEntry 10 }

wlsrChStatsFrameRetryRate OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "The Frame Retry Rate"
::= { wlsrChannelStatsEntry 11 }

wlsrChStatsFrameLowSpeedRate OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Frame Low speed error rate in kbps."
::= { wlsrChannelStatsEntry 12 }

wlsrChStatsFrameNonUnicastRate OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Frame non Unicast rate in kbps."
::= { wlsrChannelStatsEntry 13 }

wlsrChStatsFrameBandwidthRate OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Frame Bandwidth rate in kbps."
::= { wlsrChannelStatsEntry 14 }

wlsrChStatsFrameFragmentationRate OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Frame Fragmentation Rate in kbps."
::= { wlsrChannelStatsEntry 15 }

wlsrChStatsMonitoredTime OBJECT-TYPE
SYNTAX TimeTicks
--- This table breaks down the channel statistics observed into different rate categories.

wlsrChannelRateStatsTable OBJECT-TYPE
SYNTAX SEQUENCE OF WlsrChannelRateStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table contains all the per channel Packet and Byte Counts but represented in terms of rate categories."

 ::= { wlsrStatsChannelGroup 2 }

WlsrChannelRateStatsEntry OBJECT-TYPE
SYNTAX WlsrChannelRateStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Channel Rate Statistics."
INDEX { wlsrChStatsChannel }
 ::= { wlsrChannelRateStatsTable 1 }

WlsrChannelRateStatsEntry ::= SEQUENCE {
    wlsrChStatsTotPktsAt1Mbps Counter32 ,
    wlsrChStatsTotBytesAt1Mbps Counter32 ,
    wlsrChStatsTotPktsAt2Mbps Counter32 ,
    wlsrChStatsTotBytesAt2Mbps Counter32 ,
    wlsrChStatsTotPktsAt5Mbps Counter32 ,
    wlsrChStatsTotBytesAt5Mbps Counter32 ,
    wlsrChStatsTotPktsAt11Mbps Counter32 ,
    wlsrChStatsTotBytesAt11Mbps Counter32 ,
    wlsrChStatsTotPktsAt6Mbps Counter32 ,
    wlsrChStatsTotBytesAt6Mbps Counter32 ,
    wlsrChStatsTotPktsAt12Mbps Counter32 ,
    wlsrChStatsTotBytesAt12Mbps Counter32 ,
    wlsrChStatsTotPktsAt18Mbps Counter32 ,
    wlsrChStatsTotBytesAt18Mbps Counter32 ,
wlsrChStatsTotPktsAt24Mbps Counter32,
wlsrChStatsTotBytesAt24Mbps Counter32,
wlsrChStatsTotPktsAt36Mbps Counter32,
wlsrChStatsTotBytesAt36Mbps Counter32,
wlsrChStatsTotPktsAt48Mbps Counter32,
wlsrChStatsTotBytesAt48Mbps Counter32,
wlsrChStatsTotPktsAt54Mbps Counter32,
wlsrChStatsTotBytesAt54Mbps Counter32

}
on this channel at 2Mbps rate.
::= { wlsrChannelRateStatsEntry 4 }

wlsrChStatsTotPktsAt5Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total number of packets observed
on this channel at 5Mbps rate."
::= { wlsrChannelRateStatsEntry 5 }

wlsrChStatsTotBytesAt5Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total number of Bytes observed
on this channel at 5Mbps rate."
::= { wlsrChannelRateStatsEntry 6 }

wlsrChStatsTotPktsAt11Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total number of packets observed
on this channel at 11Mbps rate."
::= { wlsrChannelRateStatsEntry 7 }

wlsrChStatsTotBytesAt11Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total number of Bytes observed
on this channel at 11Mbps rate."
::= { wlsrChannelRateStatsEntry 8 }

wlsrChStatsTotPktsAt6Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total number of packets observed on this channel at 6Mbps rate."
 ::= { wlsrChannelRateStatsEntry 9 }

wlsrChStatsTotBytesAt6Mbps OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This attribute indicates the total number of Bytes observed on this channel at 6Mbps rate."
 ::= { wlsrChannelRateStatsEntry 10 }

wlsrChStatsTotPktsAt12Mbps OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This attribute indicates the total number of packets observed on this channel at 12Mbps rate."
 ::= { wlsrChannelRateStatsEntry 11 }

wlsrChStatsTotBytesAt12Mbps OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This attribute indicates the total number of Bytes observed on this channel at 12Mbps rate."
 ::= { wlsrChannelRateStatsEntry 12 }

wlsrChStatsTotPktsAt18Mbps OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This attribute indicates the total number of packets observed on this channel at 18Mbps rate."
 ::= { wlsrChannelRateStatsEntry 13 }

wlsrChStatsTotBytesAt18Mbps OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This attribute indicates the total number of Bytes observed on this channel at 18Mbps rate."
::= { wlsrChannelRateStatsEntry 14 }

wlsrChStatsTotPktsAt24Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total number of packets observed on this channel at 24Mbps rate."
::= { wlsrChannelRateStatsEntry 15 }

wlsrChStatsTotBytesAt24Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total number of Bytes observed on this channel at 24Mbps rate."
::= { wlsrChannelRateStatsEntry 16 }

wlsrChStatsTotPktsAt36Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total number of packets observed on this channel at 36Mbps rate."
::= { wlsrChannelRateStatsEntry 17 }

wlsrChStatsTotBytesAt36Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total number of Bytes observed on this channel at 36Mbps rate."
::= { wlsrChannelRateStatsEntry 18 }

wlsrChStatsTotPktsAt48Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
Aruba Enterprise MIB Traps

STATUS       current
DESCRIPTION
"This attribute indicates the total number of packets observed on this channel at 48Mbps rate."
 ::= { wlsrChannelRateStatsEntry 19 }

wlsrChStatsTotBytesAt48Mbps OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This attribute indicates the total number of Bytes observed on this channel at 48Mbps rate."
 ::= { wlsrChannelRateStatsEntry 20 }

wlsrChStatsTotPktsAt54Mbps OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This attribute indicates the total number of packets observed on this channel at 54Mbps rate."
 ::= { wlsrChannelRateStatsEntry 21 }

wlsrChStatsTotBytesAt54Mbps OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This attribute indicates the total number of Bytes observed on this channel at 54Mbps rate."
 ::= { wlsrChannelRateStatsEntry 22 }

-- This table breaks down the channel statistics observed based on the
-- Destination Address Types.

wlsrChannelDATypeStatsTable  OBJECT-TYPE
SYNTAX       SEQUENCE OF WlsrChannelDATypeStatsEntry
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION
"This table contains all the per channel Packet and Byte Counts but broken down in terms of Destination Address Type.
"
wlsrChannelDATypeStatsEntry OBJECT-TYPE
SYNTAX WlsrChannelDATypeStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "Channel Statistics based on the Address Type."
INDEX { wlsrChStatsChannel}
::= { wlsrChannelDATypeStatsTable 1 }

WlsrChannelDATypeStatsEntry ::= SEQUENCE {
  wlsrChStatsTotDABroadcastPkts Counter32 ,
  wlsrChStatsTotDABroadcastBytes Counter32 ,
  wlsrChStatsTotDAMulticastPkts Counter32 ,
  wlsrChStatsTotDAMulticastBytes Counter32 ,
  wlsrChStatsTotDAUnicastPkts Counter32 ,
  wlsrChStatsTotDAUnicastBytes Counter32
}

wlsrChStatsTotDABroadcastPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This attribute indicates the total number of Broadcast packets observed on this channel."
::= { wlsrChannelDATypeStatsEntry 1 }

wlsrChStatsTotDABroadcastBytes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This attribute indicates the total number of Broadcast Bytes observed on this channel."
::= { wlsrChannelDATypeStatsEntry 2 }

wlsrChStatsTotDAMulticastPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total number of Multicast packets observed on this channel."
 ::= { wlsrChannelDATypeStatsEntry 3 }

wlsrChStatsTotDAMulticastBytes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total number of Multicast Bytes observed on this channel."
 ::= { wlsrChannelDATypeStatsEntry 4 }

wlsrChStatsTotDAUnicastPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total number of Unicast packets observed on this channel."
 ::= { wlsrChannelDATypeStatsEntry 5 }

wlsrChStatsTotDAUnicastBytes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total number of Unicast Bytes observed on this channel."
 ::= { wlsrChannelDATypeStatsEntry 6 }

-- This table breaks down the channel statistics observed based on the Type of the Packet.

wlsrChannelFrameTypeStatsTable OBJECT-TYPE
SYNTAX SEQUENCE OF WlsrChannelFrameTypeStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table contains all the per channel Packet and Byte Counts but broken down into different Frame Types."
 ::= { wlsrStatsChannelGroup 4 }
wlsrChannelFrameTypeStatsEntry OBJECT-TYPE
SYNTAX WlsrChannelFrameTypeStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "Channel Statistics based on Frame Type."
INDEX { wlsrChStatsChannel}
::= { wlsrChannelFrameTypeStatsTable 1 }

WlsrChannelFrameTypeStatsEntry ::= 
SEQUENCE {
  wlsrChStatsTotMgmtPkts Counter32,
  wlsrChStatsTotMgmtBytes Counter32,
  wlsrChStatsTotCtrlPkts Counter32,
  wlsrChStatsTotCtrlBytes Counter32,
  wlsrChStatsTotDataPkts Counter32,
  wlsrChStatsTotDataBytes Counter32
}

wlsrChStatsTotMgmtPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This attribute indicates the total number of Management packets observed on this channel."
::= { wlsrChannelFrameTypeStatsEntry 1 }

wlsrChStatsTotMgmtBytes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This attribute indicates the total number of Management Bytes observed on this channel."
::= { wlsrChannelFrameTypeStatsEntry 2 }

wlsrChStatsTotCtrlPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total number of Control packets observed on this channel."
::= { wlsrChannelFrameTypeStatsEntry 3 }

wlsrChStatsTotCtrlBytes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total number of Control Bytes observed on this channel."
::= { wlsrChannelFrameTypeStatsEntry 4 }

wlsrChStatsTotDataPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total number of Data packets observed on this channel."
::= { wlsrChannelFrameTypeStatsEntry 5 }

wlsrChStatsTotDataBytes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total number of Data Bytes observed on this channel."
::= { wlsrChannelFrameTypeStatsEntry 6 }

-- This table breaks down the channel statistics observed into packet size buckets.

wlsrChannelPktSizeStatsTable OBJECT-TYPE
SYNTAX SEQUENCE OF WlsrChannelPktSizeStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table contains all the per channel Packet and Byte Counts but broken down into different Packet Sizes."
::= { wlsrStatsChannelGroup 5 }
wlsrChannelPktSizeStatsEntry OBJECT-TYPE
SYNTAX WlsrChannelPktSizeStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Channel Statistics based on the packet sizes."
INDEX { wlsrChStatsChannel}
 ::= { wlsrChannelPktSizeStatsTable 1 }

WlsrChannelPktSizeStatsEntry ::==
SEQUENCE {
  wlsrChStatsPkts63Bytes Counter32 ,
  wlsrChStatsPkts64To127 Counter32 ,
  wlsrChStatsPkts128To255 Counter32 ,
  wlsrChStatsPkts256To511 Counter32 ,
  wlsrChStatsPkts512To1023 Counter32 ,
  wlsrChStatsPkts1024To1518 Counter32
}

wlsrChStatsPkts63Bytes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This attribute indicates the total number of packets that were
less than 64 bytes long."
 ::= { wlsrChannelPktSizeStatsEntry 1 }

wlsrChStatsPkts64To127 OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This attribute indicates the total number of packets that were
between 64 and 127 bytes long."
 ::= { wlsrChannelPktSizeStatsEntry 2 }

wlsrChStatsPkts128To255 OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This attribute indicates the total number of packets that were
between 128 and 255 bytes long."
::= { wlsrChannelPktSizeStatsEntry 3 }

wlsrChStatsPkts256To511 OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
" This attribute indicates the total number of packets that were
between 256 and 511 bytes long."
::= { wlsrChannelPktSizeStatsEntry 4 }

wlsrChStatsPkts512To1023 OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
" This attribute indicates the total number of packets that were
between 512 and 1023 bytes long."
::= { wlsrChannelPktSizeStatsEntry 5 }

wlsrChStatsPkts1024To1518 OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
" This attribute indicates the total number of packets that were
between 1024 and 1518 bytes long."
::= { wlsrChannelPktSizeStatsEntry 6 }

-- Station Statistics Group contains all the statistics related to
-- a Station.

-- wlsrStaStatsTable will contain all the Aggregate statistics collected
-- for a Station

wlsrStatsStaGroup   OBJECT IDENTIFIER ::= { wlsrStatsGroup 4 }

wlsrStaStatsTable   OBJECT-TYPE
SYNTAX       SEQUENCE OF WlsrStaStatsEntry
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION
"This Table contains all the aggregate statistics collected for a station."

::= { wlsrStatsStaGroup 1 }

wlsrStaStatsEntry OBJECT-TYPE
SYNTAX WlsrStaStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "Station Statistics."
INDEX { wlsrStaAddress}
::= { wlsrStaStatsTable 1 }

WlsrStaStatsEntry ::= 
SEQUENCE {
wlsrStaAddress MacAddress ,
wlsrStaTxPkts Counter32 ,
wlsrStaTxBytes Counter32 ,
wlsrStaRxPkts Counter32 ,
wlsrStaRxBytes Counter32 ,
wlsrStaTxRetryPkts Counter32 ,
wlsrStaRxRetryPkts Counter32 ,
wlsrStaTxFragmentedPkts Counter32 ,
wlsrStaRxFragmentedPkts Counter32 ,
wlsrStaReceiveErrPkts Counter32 ,
wlsrStaTxTotSignal Integer32 ,
wlsrStaTxSignalPkts Counter32 ,
wlsrStaTxCurSignal Integer32 ,
wlsrStaTxHighSignal Integer32 ,
wlsrStaRxTotNoise Counter32 ,
wlsrStaRxNoisePkts Counter32 ,
wlsrStaRxCurrentNoise Integer32 ,
wlsrStaRxHighNoise Integer32 ,
wlsrStaRxLowNoise Integer32 ,
wlsrStaFrameRetryRate Integer32 ,
wlsrStaFrameLowSpeedRate Integer32 ,
wlsrStaFrameNonUnicastRate Integer32 ,
wlsrStaFrameRetryErrorRate Integer32 ,
wlsrStaFrameBandwidthRate Integer32 ,
wlsrStaFrameFragmentationRate Integer32 ,
wlsrStaFrameHighBandwidthRate Integer32
}


wlsrStaAddress  OBJECT-TYPE
   SYNTAX        MacAddress
   MAX-ACCESS    not-accessible
   STATUS        current
   DESCRIPTION  "Mac Address of the Station connected to this Access Point."
   ::= { wlsrStaStatsEntry 1 }

wlsrStaTxPkts  OBJECT-TYPE
   SYNTAX        Counter32
   MAX-ACCESS    read-only
   STATUS        current
   DESCRIPTION  "This attribute indicates the total packets Transmitted to the
   Station."
   ::= { wlsrStaStatsEntry 2 }

wlsrStaTxBytes  OBJECT-TYPE
   SYNTAX        Counter32
   MAX-ACCESS    read-only
   STATUS        current
   DESCRIPTION  "This attribute indicates the total Bytes Transmitted to the
   Station."
   ::= { wlsrStaStatsEntry 3 }

wlsrStaRxPkts  OBJECT-TYPE
   SYNTAX        Counter32
   MAX-ACCESS    read-only
   STATUS        current
   DESCRIPTION  "This attribute indicates the total packets Received from the
   Station."
   ::= { wlsrStaStatsEntry 4 }

wlsrStaRxBytes  OBJECT-TYPE
   SYNTAX        Counter32
   MAX-ACCESS    read-only
   STATUS        current
   DESCRIPTION  "This attribute indicates the total Bytes Received from the
   Station."
   ::= { wlsrStaStatsEntry 5 }
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wlsrStaTxRetryPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the Retry Packets transmitted by the station"
::= { wlsrStaStatsEntry 6 }

wlsrStaRxRetryPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the Retry Packets received from the station"
::= { wlsrStaStatsEntry 7 }

wlsrStaTxFragmentedPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the Fragmented Packets transmitted by the station."
::= { wlsrStaStatsEntry 8 }

wlsrStaRxFragmentedPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the Fragmented Packets Received from the station."
::= { wlsrStaStatsEntry 9 }

wlsrStaReceiveErrPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total Error Packets received from this station."
::= { wlsrStaStatsEntry 10 }

wlsrStaTxTotSignal OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The attribute indicates the total transmitted signal computed for this station."
::= { wlsrStaStatsEntry 11 }

wlsrStaTxSignalPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the total Signal Packets transmitted by this station."
::= { wlsrStaStatsEntry 12 }

wlsrStaTxCurSignal OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicate the stations current trasmit signal strength."
::= { wlsrStaStatsEntry 13 }

wlsrStaTxHighSignal OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicate the stations high trasmit signal strength."
::= { wlsrStaStatsEntry 14 }

wlsrStaRxTotNoise OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS deprecated
DESCRIPTION "Total Noise."
::= { wlsrStaStatsEntry 15 }

wlsrStaRxNoisePkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS deprecated
DESCRIPTION "Received Noise."
::= { wlsrStaStatsEntry 16 }

wlsrStaRxCurrentNoise OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS deprecated
DESCRIPTION "Current Noise."
::= { wlsrStaStatsEntry 17 }

wlsrStaRxHighNoise OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS deprecated
DESCRIPTION "High Noise"
::= { wlsrStaStatsEntry 18 }

wlsrStaRxLowNoise OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS deprecated
DESCRIPTION "Low Noise"
::= { wlsrStaStatsEntry 19 }

wlsrStaFrameRetryRate OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Station Frame Retry Rate in kbps."
::= { wlsrStaStatsEntry 20 }
wlsrStaFrameLowSpeedRate OBJECT-TYPE
SYNTAX     Integer32
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
"Station Frame Low speed error rate in kbps."
::= { wlsrStaStatsEntry 21 }

wlsrStaFrameNonUnicastRate OBJECT-TYPE
SYNTAX     Integer32
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
"Station Frame Non Unicast rate in kbps."
::= { wlsrStaStatsEntry 22 }

wlsrStaFrameRetryErrorRate OBJECT-TYPE
SYNTAX     Integer32
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
"Station Frame Retry Error Rate in kbps."
::= { wlsrStaStatsEntry 23 }

wlsrStaFrameBandwidthRate OBJECT-TYPE
SYNTAX     Integer32
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
"Station Frame Bandwidth rate in kbps."
::= { wlsrStaStatsEntry 24 }

wlsrStaFrameFragmentationRate OBJECT-TYPE
SYNTAX     Integer32
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
"Station Frame Fragmentation Rate in kbps."
::= { wlsrStaStatsEntry 25 }

wlsrStaFrameHighBandwidthRate OBJECT-TYPE
SYNTAX     Integer32
MAX-ACCESS read-only
STATUS        current
DESCRIPTION
 "Station Frame High Bandwidth Rate in kbps."
::= { wlsrStaStatsEntry 26 }

-- This table breaks down the Station statistics into different
-- rate categories.

wlsrStaRateStatsTable  OBJECT-TYPE
SYNTAX       SEQUENCE OF WlsrStaRateStatsEntry
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION
 "This table contains all the per channel Packet and Byte Counts
 but represented in terms of rate categories."
::= { wlsrStatsStaGroup 2 }

wlsrStaRateStatsEntry OBJECT-TYPE
SYNTAX       WlsrStaRateStatsEntry
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION
 "Station Rate Stats Table"
INDEX { wlsrStaAddress}
::= { wlsrStaRateStatsTable 1 }

WlsrStaRateStatsEntry ::= 
SEQUENCE {
   wlsrStaTxPktsAt1Mbps      Counter32 ,
   wlsrStaTxBytesAt1Mbps     Counter32 ,
   wlsrStaTxPktsAt2Mbps      Counter32 ,
   wlsrStaTxBytesAt2Mbps     Counter32 ,
   wlsrStaTxPktsAt5Mbps      Counter32 ,
   wlsrStaTxBytesAt5Mbps     Counter32 ,
   wlsrStaTxPktsAt11Mbps     Counter32 ,
   wlsrStaTxBytesAt11Mbps    Counter32 ,
   wlsrStaTxPktsAt12Mbps     Counter32 ,
   wlsrStaTxBytesAt12Mbps    Counter32 ,
   wlsrStaTxPktsAt18Mbps     Counter32 ,
   wlsrStaTxBytesAt18Mbps    Counter32 ,
   wlsrStaTxPktsAt24Mbps     Counter32 ,
}
wlsrStaTxBytesAt24Mbps  Counter32 ,
wlsrStaTxPktsAt36Mbps  Counter32 ,
wlsrStaTxBytesAt36Mbps  Counter32 ,
wlsrStaTxPktsAt48Mbps  Counter32 ,
wlsrStaTxBytesAt48Mbps  Counter32 ,
wlsrStaTxPktsAt54Mbps  Counter32 ,
wlsrStaTxBytesAt54Mbps  Counter32 ,
wlsrStaRxPktsAt1Mbps  Counter32 ,
wlsrStaRxBytesAt1Mbps  Counter32 ,
wlsrStaRxPktsAt2Mbps  Counter32 ,
wlsrStaRxBytesAt2Mbps  Counter32 ,
wlsrStaRxPktsAt5Mbps  Counter32 ,
wlsrStaRxBytesAt5Mbps  Counter32 ,
wlsrStaRxPktsAt11Mbps  Counter32 ,
wlsrStaRxBytesAt11Mbps  Counter32 ,
wlsrStaRxPktsAt12Mbps  Counter32 ,
wlsrStaRxBytesAt12Mbps  Counter32 ,
wlsrStaRxPktsAt18Mbps  Counter32 ,
wlsrStaRxBytesAt18Mbps  Counter32 ,
wlsrStaRxPktsAt24Mbps  Counter32 ,
wlsrStaRxBytesAt24Mbps  Counter32 ,
wlsrStaRxPktsAt36Mbps  Counter32 ,
wlsrStaRxBytesAt36Mbps  Counter32 ,
wlsrStaRxPktsAt48Mbps  Counter32 ,
wlsrStaRxBytesAt48Mbps  Counter32 ,
wlsrStaRxPktsAt54Mbps  Counter32 ,
wlsrStaRxBytesAt54Mbps  Counter32 ,

wlsrStaTxPktsAt1Mbps OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
" This attribute indicates the number of Packets Transmited by the
station at 1Mbps rate."
::= { wlsrStaRateStatsEntry 1 }

wlsrStaTxBytesAt1Mbps OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
" This attribute indicates the number of Octets Transmited by the
station at 1Mbps rate."
::= { wlsrStaRateStatsEntry 2 }

wlsrStaTxPktsAt2Mbps OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
" This attribute indicates the number of Packets Transmited by the
station at 2Mbps rate."
::= { wlsrStaRateStatsEntry 3 }

wlsrStaTxBytesAt2Mbps OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
" This attribute indicates the number of Octets Transmited by the
station at 2Mbps rate."
::= { wlsrStaRateStatsEntry 4 }

wlsrStaTxPktsAt5Mbps OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
" This attribute indicates the number of Packets Transmited by the
station at 5Mbps rate."
::= { wlsrStaRateStatsEntry 5 }

wlsrStaTxBytesAt5Mbps OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
" This attribute indicates the number of Octets Transmited by the
station at 5Mbps rate."
::= { wlsrStaRateStatsEntry 6 }

wlsrStaTxPktsAt11Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Packets Transmited by the station at 11Mbps rate."
::= { wlsrStaRateStatsEntry 7 }

wlsrStaTxBytesAt11Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Octets Transmited by the station at 11Mbps rate."
::= { wlsrStaRateStatsEntry 8 }

wlsrStaTxPktsAt6Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Packets Transmited by the station at 6Mbps rate."
::= { wlsrStaRateStatsEntry 9 }

wlsrStaTxBytesAt6Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Octets Transmited by the station at 6Mbps rate."
::= { wlsrStaRateStatsEntry 10 }

wlsrStaTxPktsAt12Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Packets Transmited by the station at 12Mbps rate."
::= { wlsrStaRateStatsEntry 11 }
wlsrStaTxBytesAt12Mbps OBJECT-TYPE
   SYNTAX       Counter32
   MAX-ACCESS   read-only
   STATUS       current
   DESCRIPTION       "This attribute indicates the number of Octets Transmited by the station at 12Mbps rate."
   ::= { wlsrStaRateStatsEntry 12 }

wlsrStaTxPktsAt18Mbps OBJECT-TYPE
   SYNTAX       Counter32
   MAX-ACCESS   read-only
   STATUS       current
   DESCRIPTION       "This attribute indicates the number of Packets Transmited by the station at 18Mbps rate."
   ::= { wlsrStaRateStatsEntry 13 }

wlsrStaTxBytesAt18Mbps OBJECT-TYPE
   SYNTAX       Counter32
   MAX-ACCESS   read-only
   STATUS       current
   DESCRIPTION       "This attribute indicates the number of Octets Transmited by the station at 18Mbps rate."
   ::= { wlsrStaRateStatsEntry 14 }

wlsrStaTxPktsAt24Mbps OBJECT-TYPE
   SYNTAX       Counter32
   MAX-ACCESS   read-only
   STATUS       current
   DESCRIPTION       "This attribute indicates the number of Packets Transmited by the station at 24Mbps rate."
   ::= { wlsrStaRateStatsEntry 15 }

wlsrStaTxBytesAt24Mbps OBJECT-TYPE
   SYNTAX       Counter32
   MAX-ACCESS   read-only
   STATUS       current

DESCRIPTION
"This attribute indicates the number of Octets Transmitted by the station at 24Mbps rate."
::= {wlsrStaRateStatsEntry 16}

wlsrStaTxPktsAt36Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Packets Transmitted by the station at 36Mbps rate."
::= {wlsrStaRateStatsEntry 17}

wlsrStaBytesAt36Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Octets Transmitted by the station at 36Mbps rate."
::= {wlsrStaRateStatsEntry 18}

wlsrStaTxPktsAt48Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Packets Transmitted by the station at 48Mbps rate."
::= {wlsrStaRateStatsEntry 19}

wlsrStaBytesAt48Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Octets Transmitted by the station at 48Mbps rate."
::= {wlsrStaRateStatsEntry 20}

wlsrStaTxPktsAt54Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Packets Transmited by the station at 54Mbps rate."
::= { wlsrStaRateStatsEntry 21 }

wlsrStaTxBytesAt54Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Octets Transmited by the station at 54Mbps rate."
::= { wlsrStaRateStatsEntry 22 }

wlsrStaRxPktsAt1Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Packets Received by the station at 1Mbps rate."
::= { wlsrStaRateStatsEntry 23 }

wlsrStaRxBytesAt1Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Octets Received by the station at 1Mbps rate."
::= { wlsrStaRateStatsEntry 24 }

wlsrStaRxPktsAt2Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Packets Received by the station at 2Mbps rate."
::= { wlsrStaRateStatsEntry 25 }

wlsrStaRxBytesAt2Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION   "This attribute indicates the number of Octets Received by the
station at 2Mbps rate."
 ::= { wlsrStaRateStatsEntry 26 }

wlsrStaRxPktsAt5Mbps OBJECT-TYPE
SYNTAX        Counter32
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION   "This attribute indicates the number of Packets Received by the
station at 5Mbps rate."
 ::= { wlsrStaRateStatsEntry 27 }

wlsrStaRxBytesAt5Mbps OBJECT-TYPE
SYNTAX        Counter32
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION   "This attribute indicates the number of Octets Received by the
station at 5Mbps rate."
 ::= { wlsrStaRateStatsEntry 28 }

wlsrStaRxPktsAt11Mbps OBJECT-TYPE
SYNTAX        Counter32
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION   "This attribute indicates the number of Packets Received by the
station at 11Mbps rate."
 ::= { wlsrStaRateStatsEntry 29 }

wlsrStaRxBytesAt11Mbps OBJECT-TYPE
SYNTAX        Counter32
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION   "This attribute indicates the number of Octets Received by the
station at 11Mbps rate."
 ::= { wlsrStaRateStatsEntry 30 }

wlsrStaRxPktsAt6Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Packets Received by the station at 6Mbps rate."
::= { wlsrStaRateStatsEntry 31 }

wlsrStaRxBytesAt6Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Octets Received by the station at 6Mbps rate."
::= { wlsrStaRateStatsEntry 32 }

wlsrStaRxPktsAt12Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Packets Received by the station at 12Mbps rate."
::= { wlsrStaRateStatsEntry 33 }

wlsrStaRxBytesAt12Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Octets Received by the station at 12Mbps rate."
::= { wlsrStaRateStatsEntry 34 }

wlsrStaRxPktsAt18Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Packets Received by the station at 18Mbps rate."
::= { wlsrStaRateStatsEntry 35 }
wlsrStaRxBytesAt18Mbps OBJECT-TYPE
SYNTAX   Counter32
MAX-ACCESS  read-only
STATUS     current
DESCRIPTION
" This attribute indicates the number of Octets Received by the station at 18Mbps rate."
 ::= { wlsrStaRateStatsEntry 36 }

wlsrStaRxPktsAt24Mbps OBJECT-TYPE
SYNTAX   Counter32
MAX-ACCESS  read-only
STATUS     current
DESCRIPTION
" This attribute indicates the number of Packets Received by the station at 24Mbps rate."
 ::= { wlsrStaRateStatsEntry 37 }

wlsrStaRxBytesAt24Mbps OBJECT-TYPE
SYNTAX   Counter32
MAX-ACCESS  read-only
STATUS     current
DESCRIPTION
" This attribute indicates the number of Octets Received by the station at 24Mbps rate."
 ::= { wlsrStaRateStatsEntry 38 }

wlsrStaRxPktsAt36Mbps OBJECT-TYPE
SYNTAX   Counter32
MAX-ACCESS  read-only
STATUS     current
DESCRIPTION
" This attribute indicates the number of Packets Received by the station at 36Mpbs rate."
 ::= { wlsrStaRateStatsEntry 39 }

wlsrStaRxBytesAt36Mbps OBJECT-TYPE
SYNTAX   Counter32
MAX-ACCESS  read-only
STATUS     current
DESCRIPTION
" This attribute indicates the number of Octets Received by the station at 36Mpbs rate."
 ::= { wlsrStaRateStatsEntry 40 }
wlsrStaRxPktsAt48Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Packets Received by the
station at 48Mbps rate."
::= { wlsrStaRateStatsEntry 41 }

wlsrStaRxBytesAt48Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Octets Received by the
station at 48Mbps rate."
::= { wlsrStaRateStatsEntry 42 }

wlsrStaRxPktsAt54Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Packets Received by the
station at 54Mbps rate."
::= { wlsrStaRateStatsEntry 43 }

wlsrStaRxBytesAt54Mbps OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Octets Received by the
station at 54Mbps rate."
::= { wlsrStaRateStatsEntry 44 }

-- This table breaks down the Station statistics based on the
-- Destination Address Types.

wlsrStaDATypeStatsTable OBJECT-TYPE
SYNTAX SEQUENCE OF WlsrStaDATypeStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table contains all the per channel Packet and Byte Counts but broken down in terms of Destination Address Type."
::= { wlsrStatsStaGroup 3 }

wlsrStaDATypeStatsEntry OBJECT-TYPE
SYNTAX WlsrStaDATypeStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Station Statistics based on the Destination Address Type."
INDEX { wlsrStaAddress}
::= { wlsrStaDATypeStatsTable 1 }

WlsrStaDATypeStatsEntry ::= SEQUENCE {
    wlsrStaTxDABroadcastPkts Counter32 ,
    wlsrStaTxDABroadcastBytes Counter32 ,
    wlsrStaTxDAMulticastPkts Counter32 ,
    wlsrStaTxDAMulticastBytes Counter32 ,
    wlsrStaTxDAUnicastPkts Counter32 ,
    wlsrStaTxDAUnicastBytes Counter32
}

wlsrStaTxDABroadcastPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Broadcast packets transmitted by this Station."
::= { wlsrStaDATypeStatsEntry 1 }

wlsrStaTxDABroadcastBytes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of Broadcast Bytes transmitted by this Station."
::= { wlsrStaDATypeStatsEntry 2 }
wlsrStaTxDAMulticastPckts OBJECT-TYPE
   SYNTAX        Counter32
   MAX-ACCESS    read-only
   STATUS        current
   DESCRIPTION   
      "This attribute indicates the number of Multicast packets transmitted by this station."
   ::= { wlsrStaDATypeStatsEntry 3 }

wlsrStaTxDAMulticastBytes OBJECT-TYPE
   SYNTAX        Counter32
   MAX-ACCESS    read-only
   STATUS        current
   DESCRIPTION   
      "This attribute indicates the number of Multicast Bytes transmitted by this station."
   ::= { wlsrStaDATypeStatsEntry 4 }

wlsrStaTxDAUnicastPkts OBJECT-TYPE
   SYNTAX        Counter32
   MAX-ACCESS    read-only
   STATUS        current
   DESCRIPTION   
      "This attribute indicates the total of Unicast packets transmitted by this station."
   ::= { wlsrStaDATypeStatsEntry 5 }

wlsrStaTxDAUnicastBytes OBJECT-TYPE
   SYNTAX        Counter32
   MAX-ACCESS    read-only
   STATUS        current
   DESCRIPTION   
      "This attribute indicates the total of Unicast Bytes transmitted by this station."
   ::= { wlsrStaDATypeStatsEntry 6 }

-- This table breaks down the Station statistics based on the
-- the Type of the Packet.

wlsrStaFrameTypeStatsTable OBJECT-TYPE
   SYNTAX        SEQUENCE OF WlsrStaFrameTypeStatsEntry
   MAX-ACCESS    not-accessible
   STATUS        current
   DESCRIPTION   

"This table contains all the per channel Packet and Byte Counts but broken down into different Frame Types."

::= { wlsrStatsStaGroup 4 }

wlsrStaFrameTypeStatsEntry OBJECT-TYPE
SYNTAX WlsrStaFrameTypeStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "Station Frame Type Stats Entry."
INDEX { wlsrStaAddress}
::= { wlsrStaFrameTypeStatsTable 1 }

WlsrStaFrameTypeStatsEntry ::= SEQUENCE {
  wlsrStaTxMgmtPkts Counter32,
  wlsrStaTxMgmtBytes Counter32,
  wlsrStaTxCtrlPkts Counter32,
  wlsrStaTxCtrlBytes Counter32,
  wlsrStaTxDataPkts Counter32,
  wlsrStaTxDataBytes Counter32,
  wlsrStaRxMgmtPkts Counter32,
  wlsrStaRxMgmtBytes Counter32,
  wlsrStaRxCtrlPkts Counter32,
  wlsrStaRxCtrlBytes Counter32,
  wlsrStaRxDataPkts Counter32,
  wlsrStaRxDataBytes Counter32
}

wlsrStaTxMgmtPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the Transmited Management packets from a station."
::= { wlsrStaFrameTypeStatsEntry 1 }

wlsrStaTxMgmtBytes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the Transmited Management Bytes from a station"
::= { wlsrStaFrameTypeStatsEntry 2 }
wlsrStaTxCtrlPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the Transmited Control packets from a station"
::= { wlsrStaFrameTypeStatsEntry 3 }
wlsrStaTxCtrlBytes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the Transmited Control Bytes from a station"
::= { wlsrStaFrameTypeStatsEntry 4 }
wlsrStaTxDataPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the Transmited Data packets from a station"
::= { wlsrStaFrameTypeStatsEntry 5 }
wlsrStaTxDataBytes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the Transmited Data Bytes observed on this channel."
::= { wlsrStaFrameTypeStatsEntry 6 }
wlsrStaRxMgmtPkts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
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STATUS       current
DESCRIPTION
" This attribute indicates the number of received Management
packets
at a station."
::= { wlsrStaFrameTypeStatsEntry 7 }

wlsrStaRxMgmtBytes OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
" This attribute indicates the number of received Management Bytes
at a station."
::= { wlsrStaFrameTypeStatsEntry 8 }

wlsrStaRxCtrlPkts OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
" This attribute indicates the number of received Control packets
at a station."
::= { wlsrStaFrameTypeStatsEntry 9 }

wlsrStaRxCtrlBytes OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
" This attribute indicates the number of received Control Bytes
at a station."
::= { wlsrStaFrameTypeStatsEntry 10 }

wlsrStaRxDataPkts OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
" This attribute indicates the number of received Data packets
at a station."
::= { wlsrStaFrameTypeStatsEntry 11 }

wlsrStaRxDataBytes OBJECT-TYPE

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SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This attribute indicates the number of received Data Bytes
at a station."
::= { wlsrStaFrameTypeStatsEntry 12 }

-- This table breaks down the Station statistics received or transmitted by
a
-- station into packet size buckets.

wlsrStaPktSizeStatsTable  OBJECT-TYPE
SYNTAX       SEQUENCE OF WlsrStaPktSizeStatsEntry
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION
"This table contains all the per channel Packet and Byte Counts
but broken down into different Packet Sizes.
"
::= { wlsrStatsStaGroup 5 }

WlsrStaPktSizeStatsEntry OBJECT-TYPE
SYNTAX       WlsrStaPktSizeStatsEntry
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION
"Station Packet Size Stats."
INDEX { wlsrStaAddress}
::= { wlsrStaPktSizeStatsTable 1 }

WlsrStaPktSizeStatsEntry ::= SEQUENCE {
wlsrStaTxPkts63Bytes Counter32 ,
wlsrStaTxPkts64To127 Counter32 ,
wlsrStaTxPkts128To255 Counter32 ,
wlsrStaTxPkts256To511 Counter32 ,
wlsrStaTxPkts512To1023 Counter32 ,
wlsrStaRxPkts63Bytes Counter32 ,
wlsrStaRxPkts64To127 Counter32 ,
wlsrStaRxPkts128To255 Counter32 ,
wlsrStaRxPkts256To511 Counter32 ,
wlsrStaRxPkts512To1023 Counter32 ,}
wlsrStaRxPkts1024To1518 Counter32

wlsrStaTxPkts63Bytes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of packets transmitted by the
station that were less than 64 bytes long."
::= { wlsrStaPktSizeStatsEntry 1 }

wlsrStaTxPkts64To127 OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of packets transmitted by the
station that were between 64 and 127 bytes long."
::= { wlsrStaPktSizeStatsEntry 2 }

wlsrStaTxPkts128To255 OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of packets transmitted by the
station that were between 128 and 255 bytes long."
::= { wlsrStaPktSizeStatsEntry 3 }

wlsrStaTxPkts256To511 OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the number of packets transmitted by the
station that were between 256 and 511 bytes long."
::= { wlsrStaPktSizeStatsEntry 4 }
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wlsrStaTxPkts512To1023 OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This attribute indicates the number of packets transmitted by the station that were between 512 and 1023 bytes long."
::= { wlsrStaPktSizeStatsEntry 5 }

wlsrStaTxPkts1024To1518 OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This attribute indicates the number of packets transmitted by the station that were between 1024 and 1518 bytes long."
::= { wlsrStaPktSizeStatsEntry 6 }

wlsrStaRxPkts63Bytes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This attribute indicates the number of packets Received by the station that were less than 64 bytes long."
::= { wlsrStaPktSizeStatsEntry 7 }

wlsrStaRxPkts64To127 OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This attribute indicates the number of packets Received by the station that were between 64 and 127 bytes long."
::= { wlsrStaPktSizeStatsEntry 8 }

wlsrStaRxPkts128To255 OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This attribute indicates the number of packets Received by the
station that were between 128 and 255 bytes long."
::= { wlsrStaPktSizeStatsEntry 9 }

wlsrStaRxPkts256To511 OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
" This attribute indicates the number of packets Received by the station that were between 256 and 511 bytes long."
::= { wlsrStaPktSizeStatsEntry 10 }

wlsrStaRxPkts512To1023 OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
" This attribute indicates the number of packets Received by the station that were between 512 and 1023 bytes long."
::= { wlsrStaPktSizeStatsEntry 11 }

wlsrStaRxPkts1024To1518 OBJECT-TYPE
SYNTAX       Counter32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
" This attribute indicates the number of packets Received by the station that were between 1024 and 1518 bytes long."
::= { wlsrStaPktSizeStatsEntry 12 }

-- Air Monitor Access Point List Table. On an Air monitor this table lists all
-- the Access Points the AM is monitoring. On an Access Point, this table
-- contains itself.

wlsrAirMonitorApListTable OBJECT-TYPE
SYNTAX       SEQUENCE OF WlsrAirMonitorApListEntry
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION
"This table contains all the Access Points monitored by the AM."
::= { wlsrAirMonitorGroup 1 }

wlsrAirMonitorApListEntry OBJECT-TYPE
SYNTAX       WlsrAirMonitorApListEntry
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION
"AP List Entry"
INDEX { wlsrAmApBSSID}
::= { wlsrAirMonitorApListTable 1 }

WlsrAirMonitorApListEntry ::= SEQUENCE {
   wlsrAmApBSSID     MacAddress ,
   wlsrAmSSID        DisplayString ,
   wlsrAmChannel     INTEGER ,
   wlsrAmPhysicalType INTEGER ,
   wlsrAmAccessPointType INTEGER ,
   wlsrAmRAPType     INTEGER,
   wlsrAmRSSI        Integer32,
   wlsrAmMonitoredTime Integer32,
   wlsrAmInactivityTime Integer32,
   wlsrAmLoadBalancing INTEGER
}

wlsrAmApBSSID OBJECT-TYPE
SYNTAX       MacAddress
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION
"BSSID of the Access Point."
::= { wlsrAirMonitorApListEntry 1 }

wlsrAmSSID OBJECT-TYPE
SYNTAX       DisplayString(SIZE(0..62))
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This attribute indicates the SSID of the AP."
::= { wlsrAirMonitorApListEntry 2 }

wlsrAmChannel OBJECT-TYPE
SYNTAX       INTEGER(1..165)
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
"This attribute indicates the channel on which this AP is operating."
::= { wlsrAirMonitorApListEntry 3 }

wlsrAmPhysicalType OBJECT-TYPE
SYNTAX INTEGER{
    dot11b(1),
    dot11a(2),
    dot11g(3)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This attribute indicates the physical layer type."
::= { wlsrAirMonitorApListEntry 4 }

wlsrAmAccessPointType OBJECT-TYPE
SYNTAX INTEGER{
    genericAp(1),
    softAp(2),
    ciscoAp(3)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This attribute indicates the type of AP."
::= { wlsrAirMonitorApListEntry 5 }

wlsrAmRAPType OBJECT-TYPE
SYNTAX INTEGER{
    valid(1),
    interfering(2),
    unsecure(3),
    dos(4),
    unknown(5)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Type of the Access Point."
::= { wlsrAirMonitorApListEntry 6 }

wlsrAmRSSI OBJECT-TYPE
SYNTAX       Integer32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION       "Access point Receiver Signal Strength Indicator."
 ::= { wlsrAirMonitorApListEntry 7 }

wlsrAmMonitoredTime OBJECT-TYPE
SYNTAX       Integer32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION       "Time in ticks, since the AM is observing this access point."
 ::= { wlsrAirMonitorApListEntry 8 }

wlsrAmInactivityTime OBJECT-TYPE
SYNTAX       Integer32
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION       "Access point Inactivity Time."
 ::= { wlsrAirMonitorApListEntry 9 }

wlsrAmLoadBalancing OBJECT-TYPE
SYNTAX       INTEGER{
   enable(1),
   disable(2)
 }
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION       "The attributes indicates wheather Load balancing is enabled for this access point."
 ::= { wlsrAirMonitorApListEntry 10 }

-- wlsrTrapsGroup
-- This group defines all the traps generated by the access points.

-- Objects defined under this group does not have support for
-- GET or SET. They are defined in the MIB to pass specific
-- information. which has meaning only in the context of a trap.

wlsrTrapObjectsGroup OBJECT IDENTIFIER ::= { wlsrTrapsGroup 100 }
wlsrTargetApBSSID OBJECT-TYPE
SYNTAX MacAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This Object is used in the traps to indicate the BSSID of the
Access Point, for which we are raising the trap. If an Air Monitor
is sending the trap then this will indicate AP. If an Access Point
is sending the trap, then it will point to itself."
::= { wlsrTrapObjectsGroup 1 }

wlsrTargetApSSID OBJECT-TYPE
SYNTAX DisplayString(SIZE(0..64))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This Object is used in the traps to indicate the SSID of the Access
Point, for which we are raising the trap. If an Air Monitor is
sending the trap then this will indicate AP. If an Access Point is
sending the trap, then it will point to itself."
::= { wlsrTrapObjectsGroup 2 }

wlsrTargetApChannel OBJECT-TYPE
SYNTAX INTEGER(1..165)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This Object is used in the traps to indicate the Channel of the
Access Point, for which we are raising the trap. If an Air Monitor
is sending the trap then this will indicate AP. If an Access Point
is sending the trap, then it will point to itself."
::= { wlsrTrapObjectsGroup 3 }

wlsrSourceMac OBJECT-TYPE
SYNTAX MacAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This Object is used in the traps to indicate the MAC address of the Source."
::= { wlsrTrapObjectsGroup 4 }

wlsrNodeMac OBJECT-TYPE
SYNTAX   MacAddress
MAX-ACCESS read-only
STATUS   current
DESCRIPTION
"This Object is used in the traps to indicate the MAC address of a Node."
::= { wlsrTrapObjectsGroup 5 }

wlsrFrameType OBJECT-TYPE
SYNTAX   INTEGER{
    associateRequest(1),
    associateResponse(2),
    reassociateRequest(3),
    reassociateResponse(4),
    probeRequest(5),
    probeResponse(6),
    beacon(9),
    atim(10),
    disassociate(11),
    auth(12),
    deauth(13)
}
MAX-ACCESS read-only
STATUS   current
DESCRIPTION
"This Object is used in the traps to indicate the Frame Type."
::= { wlsrTrapObjectsGroup 6 }

wlsrAddressType OBJECT-TYPE
SYNTAX   INTEGER{
    srcAddress(1),
    dstAddress(2),
    bssid(3)
}
MAX-ACCESS read-only
STATUS   current
DESCRIPTION
"This Object is used in the traps to indicate the Address Type."
::= { wlsrTrapObjectsGroup 7 }
wlsrSignatureName OBJECT-TYPE
    SYNTAX          OCTET STRING (SIZE (0..64))
    MAX-ACCESS     read-only
    STATUS         current
    DESCRIPTION    "This Object is used in the traps to indicate the
                    Signature Name."
 ::= { wlsrTrapObjectsGroup 8 }

wlsrMatchedMac OBJECT-TYPE
    SYNTAX          MacAddress
    MAX-ACCESS     read-only
    STATUS         current
    DESCRIPTION    "This Object is used in the traps to indicate the
                    Macaddress."
 ::= { wlsrTrapObjectsGroup 9 }

wlsrMatchedIp OBJECT-TYPE
    SYNTAX          IpAddress
    MAX-ACCESS     read-only
    STATUS         current
    DESCRIPTION    "This Object is used in the traps to indicate the
                    Ip Address."
 ::= { wlsrTrapObjectsGroup 10 }

wlsrReceiverMac OBJECT-TYPE
    SYNTAX          MacAddress
    MAX-ACCESS     read-only
    STATUS         current
    DESCRIPTION    "This Object is used in the traps to indicate the MAC
                    address of the Receiver."
 ::= { wlsrTrapObjectsGroup 11 }

wlsrTransmitterMac OBJECT-TYPE
    SYNTAX          MacAddress
    MAX-ACCESS     read-only
    STATUS         current
    DESCRIPTION    "This Object is used in the traps to indicate the MAC
                    address of the Transmitter."
::= { wlsrTrapObjectsGroup 12 }

wlsrRSSI OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This Object is used in the traps to indicate the
Signal Strength Indicator."
::= { wlsrTrapObjectsGroup 13 }

wlsrRogueInfoURL OBJECT-TYPE
SYNTAX DisplayString(SIZE(0..256))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This Object is used to point to the WEBGUI Rogue AP information
URL."
::= { wlsrTrapObjectsGroup 14 }

wlsrInterferingAPInfoURL OBJECT-TYPE
SYNTAX DisplayString(SIZE(0..256))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This Object is used to point to the WEBGUI Rogue interfering
AP information URL."
::= { wlsrTrapObjectsGroup 15 }

wlsrUnsecureApDetected NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID,
          wlsrLocation, wlsrCurrentChannel, wlsrMatchedMac,
          wlsrMatchedIp, wlsrRogueInfoURL}
STATUS current
DESCRIPTION
"This trap indicates that an Unsecure Access Point is detected
by an Air Monitor located at wlsrLocation on channel
wlsrCurrentChannel. The AP is declared unsecure, because we
matched it to the wlsrMatchedMac/wlsrMatchedIp.
"
wlsrStaImpersonation NOTIFICATION-TYPE
OBJECTS {wlsrNodeMac, wlsrLocation}
STATUS current
DESCRIPTION
  "This trap indicates that an AM at location wlsrLocation detected
   a Station impersonation."
 ::= { wlsrTrapsGroup 1002 }

wlsrReservedChannelViolation NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID, wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
  "This trap indicates that an Access Point is detected
   by an AP at location wlsrLocation, which
   violates the Reserved Channel configuration."
 ::= { wlsrTrapsGroup 1003 }

wlsrValidSSIDViolation NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID, wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
  "This trap indicates that an Access Point violating Valid SSID is
   detected by an AP at wlsrLocation."
 ::= { wlsrTrapsGroup 1004 }

wlsrChannelMisconfiguration NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID, wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
  "This trap indicates that an Access Point has a bad channel
   configuration."
 ::= { wlsrTrapsGroup 1005 }

wlsrOUIMisconfiguration NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID, wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
  "This trap indicates that an Access Point has bad OUI
   configuration."
::= { wlsrTrapsGroup 1006 }

wlsrSSIDMisconfiguration NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID, wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
"This trap indicates that an Access Point has bad SSID configuration."
::= { wlsrTrapsGroup 1007 }

wlsrShortPreambleMisconfiguration NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID, wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
"This trap indicates that an Access Point has bad Short preamble configuration."
::= { wlsrTrapsGroup 1008 }

wlsrWPAMisconfiguration NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID, wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
"This trap indicates that an Access Point has bad WPA configuration."
::= { wlsrTrapsGroup 1009 }

wlsrAdhocNetworkDetected NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID, wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
"This trap indicates that an AM has detected an Adhoc network."
::= { wlsrTrapsGroup 1010 }

wlsrStaPolicyViolation NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrNodeMac,
wlsrLocation, wlsrCurrentChannel}
STATUS  current
DESCRIPTION
"This trap indicates that a Valid Station policy is violated."
::= { wlsrTrapsGroup 1011 }

wlsrRepeatWEPIVViolation NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID,
          wlsrLocation, wlsrCurrentChannel}
STATUS  current
DESCRIPTION
"This trap indicates that an AP/AM detected a Repeat WEP-IV
violation."
::= { wlsrTrapsGroup 1012 }

wlsrWeakWEPIVViolation NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID,
          wlsrLocation, wlsrCurrentChannel}
STATUS  current
DESCRIPTION
"This trap indicates that an AP/AM detected a Weak WEP-IV
violation."
::= { wlsrTrapsGroup 1013 }

wlsrChannelInterferenceDetected NOTIFICATION-TYPE
OBJECTS {wlsrLocation, wlsrCurrentChannel}
STATUS  current
DESCRIPTION
"This trap indicates that an AM/AP located at
wlsrLocation has detected a channel interference on
wlsrCurrentChannel."
::= { wlsrTrapsGroup 1014 }

wlsrAPInterferenceDetected NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID,
          wlsrLocation, wlsrCurrentChannel}
STATUS  current
DESCRIPTION
"This trap indicates that an AM/AP located at
wlsrLocation has detected an AP interference on
wlsrCurrentChannel."
::= { wlsrTrapsGroup 1015 }
wlsrStaInterferenceDetected NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID, wlsrNodeMac, wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
"This trap indicates that an AM/AP located at wlsrLocation has detected a Station interference on wlsrCurrentChannel."
::= { wlsrTrapsGroup 1016 }

wlsrFrameRetryRateExceeded NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID, wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
"This trap indicates that an AM/AP located at wlsrLocation is reporting that an AP wlsrTargetApBSSID has exceeded an upper threshold for Frame Retry Rate for AP wlsrTargetApBSSID."
::= { wlsrTrapsGroup 1017 }

wlsrFrameReceiveErrorRateExceeded NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID, wlsrTargetApChannel, wlsrLocation}
STATUS current
DESCRIPTION
"This trap indicates that an AM/AP located at wlsrLocation is reporting that an AP wlsrTargetApBSSID has exceeded an upper threshold for Frame Receive Error Rate for AP wlsrTargetApBSSID."
::= { wlsrTrapsGroup 1018 }

wlsrFrameFragmentationRateExceeded NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID, wlsrTargetApChannel, wlsrLocation}
STATUS current
DESCRIPTION
"This trap indicates that an AM/AP located at wlsrLocation is reporting that an AP wlsrTargetApBSSID has exceeded an upper threshold for Frame Fragmentation Rate for AP wlsrTargetApBSSID."
::= { wlsrTrapsGroup 1019 }

wlsrFrameBandWidthRateExceeded NOTIFICATION-TYPE
OBJECTS {wlsrNodeMac, wlsrTargetApBSSID, wlsrTargetApSSID,
wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
"This trap indicates that an AM/AP located at
wlsrLocation is reporting that a station wlsrStaAddress has
exceeded
the allocated Bandwidth rate.
"
::= { wlsrTrapsGroup 1020 }

wlsrFrameLowSpeedRateExceeded NOTIFICATION-TYPE
OBJECTS {wlsrNodeMac, wlsrTargetApBSSID, wlsrTargetApSSID,
    wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
"This trap indicates that an AM/AP located at
wlsrLocation is reporting that a station wlsrStaAddress has
exceeded
the Low speed rate.
"
::= { wlsrTrapsGroup 1021 }

wlsrFrameNonUnicastRateExceeded NOTIFICATION-TYPE
OBJECTS {wlsrNodeMac, wlsrTargetApBSSID, wlsrTargetApSSID,
    wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
"This trap indicates that an AM/AP located at
wlsrLocation is reporting that a station wlsrStaAddress has
exceeded
the Non Unicast traffic rate.
"
::= { wlsrTrapsGroup 1022 }

wlsrLoadbalancingEnabled NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID,
    wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
"This trap indicates that an AM/AP located at
wlsrLocation is reporting that an AP with BSSID wlsrTargetApBSSID
has enabled Load balancing."
::= { wlsrTrapsGroup 1023 }
wlsrChannelFrameRetryRateExceeded NOTIFICATION-TYPE
OBJECTS {wlsrLocation, wlsrCurrentChannel}
STATUS  current
DESCRIPTION
"This trap indicates that an AM/AP located at wlsrLocation is reporting that it exceeded an upper threshold for Frame Retry Rate."
::= { wlsrTrapsGroup 1024 }

wlsrChannelFrameFragmentationRateExceeded NOTIFICATION-TYPE
OBJECTS {wlsrLocation, wlsrCurrentChannel}
STATUS  current
DESCRIPTION
"This trap indicates that an AM/AP located at wlsrLocation is reporting that it exceeded an upper threshold for Frame Fragmentation Rate."
::= { wlsrTrapsGroup 1025 }

wlsrChannelFrameErrorRateExceeded NOTIFICATION-TYPE
OBJECTS {wlsrLocation, wlsrCurrentChannel}
STATUS  current
DESCRIPTION
"This trap indicates that an AM/AP located at wlsrLocation is reporting that it exceeded an upper threshold for Frame Error Rate."
::= { wlsrTrapsGroup 1026 }

wlsrSignatureMatch NOTIFICATION-TYPE
OBJECTS {wlsrSignatureName, wlsrSourceMac, wlsrRSSI, wlsrLocation}
STATUS  current
DESCRIPTION
"This trap indicates that we detected a signature match."
::= { wlsrTrapsGroup 1027 }

wlsrChannelRateAnomaly NOTIFICATION-TYPE
OBJECTS {wlsrFrameType, wlsrLocation, wlsrCurrentChannel}
STATUS  current
DESCRIPTION
"This trap indicates that an AP/AM at wlsrLocation detected
frames of type wlsrFrameType on wlsrCurrentChannel which exceeds the configured IDS rate threshold."
::= { wlsrTrapsGroup 1028 }

wlsrNodeRateAnomaly NOTIFICATION-TYPE
OBJECTS {wlsrFrameType, wlsrNodeMac, wlsrRSSI, wlsrLocation}
STATUS current
DESCRIPTION
"This trap indicates that an AP/AM at wlsrLocation detected frames of type wlsrFrameType transmitted by node wlsrNodeMac which exceeds the configured IDS rate threshold."
::= { wlsrTrapsGroup 1029 }

wlsrEAPRateAnomaly NOTIFICATION-TYPE
OBJECTS {wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
"This trap indicates that the number of EAP Handshake packets received by an AP/AM at wlsrLocation exceeds the configured IDS EAP Handshake rate."
::= { wlsrTrapsGroup 1030 }

wlsrSignalAnomaly NOTIFICATION-TYPE
OBJECTS {wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
"This trap indicates that an AP/AM at wlsrLocation detected a Signal Anomaly on wlsrCurrentChannel."
::= { wlsrTrapsGroup 1031 }

wlsrSequenceNumberAnomaly NOTIFICATION-TYPE
OBJECTS {wlsrSourceMac, wlsrRSSI, wlsrLocation}
STATUS current
DESCRIPTION
"This trap indicates that an AP/AM at wlsrLocation received packets which exceeds the acceptable sequence number difference. The acceptable sequence number difference is an IDS Configuration object."
::= { wlsrTrapsGroup 1032 }
wlsrDisconnectStationAttack NOTIFICATION-TYPE
OBJECTS {wlsrFrameType, wlsrSourceMac, wlsrRSSI, wlsrLocation}
STATUS current
DESCRIPTION
"This trap indicates that an AP/AM detected a station Disconnect attack."
::= { wlsrTrapsGroup 1033 }

wlsrApFloodAttack NOTIFICATION-TYPE
OBJECTS {wlsrLocation}
STATUS current
DESCRIPTION
"This trap is triggered when the number of spurious AP's detected by
an AP/AM at wlsrLocation exceeds the configured IDS threshold."
::= { wlsrTrapsGroup 1034 }

wlsrAdhocNetwork NOTIFICATION-TYPE
OBJECTS {wlsrSourceMac, wlsrTargetApBSSID, wlsrTargetApSSID, wlsrRSSI,
wlsrLocation}
STATUS current
DESCRIPTION
"This trap indicates that an AP/AM at wlsrLocation detected an Adhoc
Network. Node wlsrSourceMac is connected to an adhoc AP
wlsrTargetApBSSID with wlsrTargetApSSID ssid."
::= { wlsrTrapsGroup 1035 }

wlsrWirelessBridge NOTIFICATION-TYPE
OBJECTS {wlsrTransmitterMac, wlsrReceiverMac, wlsrRSSI,
wlsrLocation}
STATUS current
DESCRIPTION
"This trap indicates that an AP/AM at wlsrLocation detected a Wireless
Bridge. The detected bridge is between wlsrSourceMac and
wlsrReceiverMac."
::= { wlsrTrapsGroup 1036 }

wlsrInvalidMacOUI NOTIFICATION-TYPE
OBJECTS {wlsrAddressType, wlsrNodeMac, wlsrRSSI,
wlsrLocation}
STATUS current
DESCRIPTION
"This trap indicates that an AP/AM at wlsrLocation detected an Invalid MAC OUI in transmission from the Node wlsrNodeMac. The invalid mac is the <wlsrAddressType>.

::= { wlsrTrapsGroup 1037 }

wlsrLoadbalancingDisabled NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID, wlsrTargetApChannel, wlsrLocation}
STATUS current
DESCRIPTION
"This trap indicates that an AM/AP located at wlsrLocation is reporting that an AP with BSSID wlsrTargetApBSSID has disabled Load balancing."
::= { wlsrTrapsGroup 1038 }

wlsrWEPMisconfiguration NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID, wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
"This trap indicates that an Access Point has bad WEP configuration."
::= { wlsrTrapsGroup 1039 }

wlsrStaRepeatWEPIVViolation NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID, wlsrNodeMac, wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
"This trap indicates that an AP/AM detected a Repeat WEP-IV violation for a Station"
::= { wlsrTrapsGroup 1040 }

wlsrStaWeakWEPIVViolation NOTIFICATION-TYPE
OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID, wlsrNodeMac, wlsrLocation, wlsrCurrentChannel}
STATUS current
DESCRIPTION
"This trap indicates that an AP/AM detected a Weak WEP-IV violation for a Station"
::= { wlsrTrapsGroup 1041 }
wlsrStaAssociatedToUnsecureAp NOTIFICATION-TYPE
   OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID, 
              wlsrLocation, wlsrCurrentChannel, wlsrNodeMac, 
              wlsrRogueInfoURL}
   STATUS current
   DESCRIPTION
       "This trap indicates that a station with wlsrNodeMac associated 
        with an Unsecure Access Point wlsrTargetApBSSID. This is detected 
        by an Air Monitor located at wlsrLocation on channel 
        wlsrCurrentChannel."
   
   ::= { wlsrTrapsGroup 1042 }

wlsrAdhocNetworkBridgeDetected NOTIFICATION-TYPE
   OBJECTS {wlsrSourceMac, wlsrTargetApBSSID, wlsrTargetApSSID, 
              wlsrLocation, wlsrCurrentChannel}
   STATUS current
   DESCRIPTION
       "This trap indicates that an AM has detected an Adhoc 
        network that is bridging to a wired network"
   
   ::= { wlsrTrapsGroup 1043 }

wlsrInterferingApDetected NOTIFICATION-TYPE
   OBJECTS {wlsrTargetApBSSID, wlsrTargetApSSID, 
              wlsrLocation, wlsrCurrentChannel, wlsrInterferingAPInfoURL}
   STATUS current
   DESCRIPTION
       "This trap indicates that an Interfering Access Point is detected 
        by an Air Monitor located at wlsrLocation on channel 
        wlsrCurrentChannel."
   
   ::= { wlsrTrapsGroup 1044 }

END