

How to setup IMPB on DGS-3120 series via SNMP

MIB: IP-MAC-BIND-MIB

Main OIDs:

IMPB Entry 1.3.6.1.4.1.171.12.23.4.1.1

IMPB State 1.3.6.1.4.1.171.12.23.3.2.1.2

Add address binding on port 1 with ARP mode

Example:

create address_binding ip_mac ipaddress 10.10.65.54 mac_address 00-00-00-00-00-01 ports 1

```
snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.23.4.1.1.2.10.10.65.54 x
0000000000001 1.3.6.1.4.1.171.12.23.4.1.1.3.10.10.65.54 i 4
1.3.6.1.4.1.171.12.23.4.1.1.4.10.10.65.54 x 8000000000000000
```

```
DGS-3200-10:4#show address_binding ip_mac all
Command: show address_binding ip_mac all

IP Address      MAC Address      Mode  Ports
-----
10.10.65.54     00-00-00-00-00-01  Static  1

Total Entries : 1
```

Delete address binding

Example:

delete address_binding ip_mac ipaddress 10.10.65.54 mac_address 00-00-00-00-00-01

```
snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.23.4.1.1.3.10.10.65.54 i 6
```

```
DGS-3200-10:4#show address_binding ip_mac all
Command: show address_binding ip_mac all

IP Address      MAC Address      Mode  Ports
-----

Total Entries : 0
```

		Object name swIpMacBindingTable Object ID 1.3.6.1.4.1.171.12.23.4.1 Module IP-MAC-BIND-MIB Base syntax Sequence Of swIpMacBindingEntry Access Not_Accessible Status Current Sequence 1:swIpMacBindingIpIndex - IP Address 2:swIpMacBindingMac - Octet String 3:swIpMacBindingStatus - Integer 4:swIpMacBindingPorts - Octet String 5:swIpMacBindingAction - Integer 6:swIpMacBindingMode - Integer Parent node swIpMacBindingMgmt First child swIpMacBindingEntry Description This table specifies IP-MAC binding information.
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		Object name swIpMacBindingEntry Object ID 1.3.6.1.4.1.171.12.23.4.1.1 Module IP-MAC-BIND-MIB Base syntax Sequence Access Not_Accessible Status Current Index 1.swIpMacBindingIpIndex Parent node swIpMacBindingTable First child swIpMacBindingIpIndex Description IP-MAC binding entry used to add/delete/configure the address pair of the switch's authorized user database.
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		Object name swIpMacBindingIpIndex Object ID 1.3.6.1.4.1.171.12.23.4.1.1.1 Module IP-MAC-BIND-MIB Base syntax IP Address Composed syntax IpAddress Access Read-Only Status Current Parent node swIpMacBindingEntry First child None Description The IP address of IP-MAC binding.
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		Object name swIpMacBindingMac Object ID 1.3.6.1.4.1.171.12.23.4.1.1.2 Module IP-MAC-BIND-MIB Base syntax Octet String Composed syntax MacAddress Access Read-Create Status Current Value list 1 : 6..6 Parent node swIpMacBindingEntry First child None Description The MAC address of IP-MAC binding.
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<ul style="list-style-type: none"> swlPmacBindingTable swlPmacBindingEntry <ul style="list-style-type: none"> swlPmacBindingPlIndex swlPmacBindingMac swlPmacBindingStatus swlPmacBindingPorts swlPmacBindingAction swlPmacBindingMode swlPmacBindingBlockedTable <ul style="list-style-type: none"> swlPmacBindingBlockedEntry <ul style="list-style-type: none"> swlPmacBindingBlockedVID swlPmacBindingBlockedMac swlPmacBindingBlockedVlanName swlPmacBindingBlockedPort swlPmacBindingBlockedType swlPmacBindingBlockedTime swlPmacBindingNotify 	<pre> Object name swlPmacBindingStatus Object ID 1.3.6.1.4.1.171.12.23.4.1.1.3 Module IP-MAC-BIND-MIB Base syntax Integer Composed syntax RowStatus Access Read-Create Status Current Value list 1 : active(1) 2 : notInService(2) 3 : notReady(3) 4 : createAndGo(4) 5 : createAndWait(5) 6 : destroy(6) Parent node swlPmacBindingEntry First child None Description The status of this entry. </pre>
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<ul style="list-style-type: none"> swlPmacBindingTable swlPmacBindingEntry <ul style="list-style-type: none"> swlPmacBindingPlIndex swlPmacBindingMac swlPmacBindingStatus swlPmacBindingPorts swlPmacBindingAction swlPmacBindingMode swlPmacBindingBlockedTable <ul style="list-style-type: none"> swlPmacBindingBlockedEntry <ul style="list-style-type: none"> swlPmacBindingBlockedVID swlPmacBindingBlockedMac swlPmacBindingBlockedVlanName 	<pre> Object name swlPmacBindingPorts Object ID 1.3.6.1.4.1.171.12.23.4.1.1.4 Module IP-MAC-BIND-MIB Base syntax Octet String Composed syntax PortList Access Read-Create Status Current Value list 1 : 0..127 Parent node swlPmacBindingEntry First child None Description The port members of this entry. </pre>
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<ul style="list-style-type: none"> swlPmacBindingTable swlPmacBindingEntry <ul style="list-style-type: none"> swlPmacBindingPlIndex swlPmacBindingMac swlPmacBindingStatus swlPmacBindingPorts swlPmacBindingAction swlPmacBindingMode swlPmacBindingBlockedTable <ul style="list-style-type: none"> swlPmacBindingBlockedEntry <ul style="list-style-type: none"> swlPmacBindingBlockedVID swlPmacBindingBlockedMac swlPmacBindingBlockedVlanName swlPmacBindingBlockedPort 	<pre> Object name swlPmacBindingAction Object ID 1.3.6.1.4.1.171.12.23.4.1.1.5 Module IP-MAC-BIND-MIB Base syntax Integer Composed syntax INTEGER Access Read-Only Status Current Value list 1 : inactive(1) 2 : active(2) Parent node swlPmacBindingEntry First child None Description The action of this entry. </pre>
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<ul style="list-style-type: none"> swlPmacBindingTable swlPmacBindingEntry <ul style="list-style-type: none"> swlPmacBindingPlIndex swlPmacBindingMac swlPmacBindingStatus swlPmacBindingPorts swlPmacBindingAction swlPmacBindingMode swlPmacBindingBlockedTable <ul style="list-style-type: none"> swlPmacBindingBlockedEntry <ul style="list-style-type: none"> swlPmacBindingBlockedVID swlPmacBindingBlockedMac swlPmacBindingBlockedVlanName swlPmacBindingBlockedPort swlPmacBindingBlockedType 	<pre> Object name swlPmacBindingMode Object ID 1.3.6.1.4.1.171.12.23.4.1.1.6 Module IP-MAC-BIND-MIB Base syntax Integer Composed syntax INTEGER Access Read-Create Status Current Value list 1 : arp(1) 2 : acl(2) Parent node swlPmacBindingEntry First child None Description The mode of this entry. </pre>
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