White Rabbit Switch CLI
User Manual

DRAFT

Miguel Baizán (Integrasys)
Juan Luis Mañas (Integrasys)
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INTRODUCTION

This document describes the commands used to configure the WR Switch, following the guidelines specified in the Std. IEEE 802.1Q. With the WR Switch Command Line Interface (CLI) you may perform the switch configuration as well as query for switch information and statistics.

This CLI follows Industry Standard CLI syntax for ease of use. Also some user friendly features are available, such as the command auto-completion ('Tab' key) or the maintenance of a commands history ('Up/Down Arrow' keys).

The purpose of this manual is to list the available commands, their syntax and their functional description. You may also see some examples of the outputs you may get by typing the commands.

The CLI has been implemented as a user program to be run locally from the WR Switch Linux shell. Since it has been designed as a gateway to the SNMP agent running in the switch, you need to specify some SNMP related configuration options in order to start (i.e. the user and password to get access to the SNMPv3 facilities). The default options are:

```
/wr/bin/wrsrw_cli -u authPrivUser -p password
```
COMMANDS

General purpose commands
These basic commands are used to handle the CLI.

Syntax
exit

<table>
<thead>
<tr>
<th>Description</th>
<th>Exit from CLI.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Options</td>
<td>This command has no options.</td>
</tr>
</tbody>
</table>

Syntax
help

<table>
<thead>
<tr>
<th>Description</th>
<th>Display help for the commands.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Options</td>
<td>This command has no options.</td>
</tr>
</tbody>
</table>

Syntax
?

<table>
<thead>
<tr>
<th>Description</th>
<th>Display help for the commands.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Options</td>
<td>This command has no options.</td>
</tr>
</tbody>
</table>

Syntax
hostname <hostname>

<table>
<thead>
<tr>
<th>Description</th>
<th>Display/Set the host name.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Options</td>
<td>&lt;hostname&gt; (Optional) The new name for the device. If this option is not present, then the name of the host is printed on the screen.</td>
</tr>
</tbody>
</table>
**Filtering Database commands**

These commands are used to configure the filtering database of the switch.

### Syntax

```
mac-address-table aging-time <aging>
```

### Description

Set the Filtering Database aging time.

### Options

<table>
<thead>
<tr>
<th>&lt;aging&gt;</th>
<th>The new value for the aging time in seconds. The default value is 300 seconds. Allowed values are in the range 10 to 1000000 seconds.</th>
</tr>
</thead>
</table>

### Syntax

```
mac-address-table unicast <MAC address> vlan <VID> port <port number>
```

### Description

Add a new static unicast filtering entry in the Filtering Database

### Options

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;VID&gt;</td>
<td>VLAN identifier. Allowed values are in the range 1 to 4095.</td>
</tr>
<tr>
<td>&lt;port number&gt;</td>
<td>Port number. You may also use several port numbers separated by commas in order to affect several ports at the same time.</td>
</tr>
</tbody>
</table>

### Syntax

```
mac-address-table multicast <MAC address> vlan <VID> port <port number>
```

### Description

Add a new static multicast filtering entry in the Filtering Database

### Options

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;VID&gt;</td>
<td>VLAN identifier. Allowed values are in the range 1 to 4095.</td>
</tr>
</tbody>
</table>

---

1 You need to be aware that the port numbers specified here is the list of Egress Ports for this MAC address; the list of Forbidden Ports is not specified. So when you display static and dynamic information intermixed, if no dynamic learning has been made yet for this MAC address, then all ports will behave as Egress Ports.
Port number. You may also use several port numbers separated by commas in order to affect several ports at the same time.

**Syntax**

```
show mac-address-table
```

**Description**

Display general information on the Filtering Database.

**Options**

This command has no options.

**Output:**

```
WR-Switch> show mac-address-table
Filtering Database Size: 8192 entries
Number of Static Filtering Entries: 26
Number of Dynamic Filtering Entries: 0
Number of Static VLAN Registration Entries: 1
Number of Dynamic VLAN Registration Entries: 0

<table>
<thead>
<tr>
<th>FID</th>
<th>MAC Address</th>
<th>Type</th>
<th>Ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>01:80:c2:00:00:00</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>01:80:c2:00:00:01</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>01:80:c2:00:00:02</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>01:80:c2:00:00:03</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>01:80:c2:00:00:04</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>01:80:c2:00:00:05</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>01:80:c2:00:00:06</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>01:80:c2:00:00:07</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>01:80:c2:00:00:08</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>01:80:c2:00:00:09</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>01:80:c2:00:00:0a</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>01:80:c2:00:00:0b</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>01:80:c2:00:00:0c</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>01:80:c2:00:00:0d</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>01:80:c2:00:00:0e</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:09</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:0a</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:0b</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:0c</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:0d</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:0e</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:10</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:29</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:2a</td>
<td>STATIC</td>
<td>10</td>
</tr>
</tbody>
</table>

**Filtering Database Size**
The maximum number of entries that can be held in the Filtering Database.

**Number of Static Filtering Entries**
Number of Static Filtering entries (unicast and multicast) currently in the Filtering Database.

**Number of Dynamic Filtering Entries**
Number of Dynamic Filtering entries (unicast and multicast) currently in the Filtering Database.
in the Filtering Database.

| Number of Static VLAN Registration Entries | Number of Static VLAN Registration entries currently in the Filtering Database. |
| Number of Dynamic VLAN Registration Entries | Number of Dynamic VLAN Registration entries currently in the Filtering Database. |
| FID | The Filtering Database identifier. |
| MAC Address | The unicast MAC address. |
| Type | Type of entry (static, dynamic or static & dynamic) |
| Ports | The list of logical egress ports enabled for this entry. |

**Syntax**

```
show mac-address-table aging-time
```

**Description**

Display the value of the Filtering Database Aging Time.

**Options**

This command has no options.

**Output:**

```
WR-Switch> show mac-address-table aging-time
Aging time: 300
```

**Aging time**

The value of the Filtering Database Aging Time expressed in seconds.

**Syntax**

```
show mac-address-table unicast
```

**Description**

Display the static and dynamic unicast filtering entries in the Filtering Database.

**Options**

This command has no options.

**Output:**

```
WR-Switch> show mac-address-table unicast

<table>
<thead>
<tr>
<th>FID</th>
<th>MAC Address</th>
<th>Type</th>
<th>Ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:09</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:0a</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:0b</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:0c</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:0d</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:0e</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:0f</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:10</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:29</td>
<td>STATIC</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>02:4a:bc:00:be:2a</td>
<td>STATIC</td>
<td>10</td>
</tr>
</tbody>
</table>
```
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FID
The Filtering Database identifier.

MAC Address
The unicast MAC address.

Type
Type of entry (static, dynamic or static & dynamic)

Ports
The list of logical egress ports enabled for this entry.

Syntax
show mac-address-table multicast

Description
Display the static and dynamic multicast filtering entries in the Filtering Database.

Options
This command has no options.

Output:

WR-Switch> show mac-address-table multicast

FID      MAC Address         Ports
---      -----------------    --------------------------------
0        01:80:c2:00:00:00  10
0        01:80:c2:00:00:01  10
0        01:80:c2:00:00:02  10
0        01:80:c2:00:00:03  10
0        01:80:c2:00:00:04  10
0        01:80:c2:00:00:05  10
0        01:80:c2:00:00:06  10
0        01:80:c2:00:00:07  10
0        01:80:c2:00:00:08  10
0        01:80:c2:00:00:09  10
0        01:80:c2:00:00:0a  10
0        01:80:c2:00:00:0b  10
0        01:80:c2:00:00:0c  10
0        01:80:c2:00:00:0d  10
0        01:80:c2:00:00:0e  10
0        01:80:c2:00:00:0f  10
0        01:80:c2:00:00:21  10
0        ff:ff:ff:ff:ff:ff  0, 1, 2, 3, 4, 5, 6, 7, 8,
          9, 10, 11, 12, 13, 14, 15, 16,
          17, 18, 19, 20, 21, 22, 23, 24,
          25, 26, 27, 28, 29, 30, 31,

FID
The Filtering Database identifier.

MAC Address
The unicast MAC address.

Ports
The list of logical egress ports enabled for this entry.

Syntax
show mac-address-table static unicast

Description
Display all the static unicast filtering entries in the Filtering Database.
Options

This command has no options.

Output:

```
WR-Switch> show mac-address-table static unicast
  VLAN  MAC Address         Ports
  ----  -------------------  --------
  4095  02:4a:bc:00:be:0b   10
  4095  02:4a:bc:00:be:0c   10
  4095  02:4a:bc:00:be:0d   10
  4095  02:4a:bc:00:be:0e   10
  4095  02:4a:bc:00:be:0f   10
  4095  02:4a:bc:00:be:10   10
  4095  02:4a:bc:00:be:11   10
  4095  02:4a:bc:00:be:12   10
  4095  02:4a:bc:00:be:2b   10
  4095  02:4a:bc:00:be:2c   10
```

### VLAN
The VLAN for which this entry applies.

### MAC Address
The static unicast MAC address.

### Ports
The list of logical egress ports enabled for this entry.

```
```

### Syntax
```
show mac-address-table static multicast
```

### Description
Display all the static multicast filtering entries in the Filtering Database.

### Options
This command has no options.

Output:

```
WR-Switch> show mac-address-table static multicast
  VLAN  MAC Address         Ports
  ----  -------------------  --------
  4095  01:80:c2:00:00:00   10
  4095  01:80:c2:00:00:01   10
  4095  01:80:c2:00:00:02   10
  4095  01:80:c2:00:00:03   10
  4095  01:80:c2:00:00:04   10
  4095  01:80:c2:00:00:05   10
  4095  01:80:c2:00:00:06   10
  4095  01:80:c2:00:00:07   10
  4095  01:80:c2:00:00:08   10
  4095  01:80:c2:00:00:09   10
  4095  01:80:c2:00:00:0a   10
  4095  01:80:c2:00:00:0b   10
  4095  01:80:c2:00:00:0c   10
  4095  01:80:c2:00:00:0d   10
  4095  01:80:c2:00:00:0e   10
  4095  01:80:c2:00:00:0f   10
  4095  01:80:c2:00:00:21   10
```
| VLAN | The VLAN for which this entry applies. |
| MAC Address | The static multicast MAC address. |
| Ports | The list of logical egress ports enabled for this entry. |

**Syntax**

```
no mac-address-table unicast <MAC address> vlan <VID>
```

**Description**

Remove a static unicast filtering entry from the Filtering Database

**Options**

- `<VID>`: VLAN identifier. Allowed values are in the range 1 to 4095.

**Syntax**

```
no mac-address-table multicast <MAC address> vlan <VID>
```

**Description**

Remove a static multicast filtering entry from the Filtering Database

**Options**

- `<VID>`: VLAN identifier. Allowed values are in the range 1 to 4095.
**Port commands**

These commands are used to configure the ports of the switch.

**Syntax**

```
interface port <port number> pvid <VID>
```  

**Description**

Set the default VLAN identifier for a given port.

**Options**

- `<port number>` Port number.
- `<VID>` VLAN identifier. Allowed values are in the range 1 to 4095.

**Syntax**

```
show interface information
```  

**Description**

Display general information on the device interfaces (including some MVRP parameters).

**Options**

This command has no options.

**Output:**

```
WR-Switch> show interface information
MVRP
---- ------- ---------- ---------- ---------- ----------
Port PVID Status    Registration Failed Last PDU from
----- ---- -------- ---------- ---------- ----------
 0   0   Enabled   *           0   00:00:00:00:00:00:00:00
 1   0   Enabled   *           0   00:00:00:00:00:00:00:00
 2   0   Enabled   *           0   00:00:00:00:00:00:00:00
 3   0   Enabled   *           0   00:00:00:00:00:00:00:00
 4   0   Enabled   *           0   00:00:00:00:00:00:00:00
 5   0   Enabled   *           0   00:00:00:00:00:00:00:00
 6   0   Enabled   *           0   00:00:00:00:00:00:00:00
 7   0   Enabled   *           0   00:00:00:00:00:00:00:00
 8   0   Enabled   *           0   00:00:00:00:00:00:00:00
 9   0   Enabled   *           0   00:00:00:00:00:00:00:00
```

<table>
<thead>
<tr>
<th>Port</th>
<th>Port number.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVID</td>
<td>Port VLAN ID value.</td>
</tr>
<tr>
<td>Status</td>
<td>MVRP status on this port.</td>
</tr>
<tr>
<td>Registration</td>
<td>Restricted VLAN Registration parameter. If enabled, ‘Restricted’ is printed on the screen; ‘*’ otherwise.</td>
</tr>
<tr>
<td>Failed</td>
<td>Number of Failed Registrations.</td>
</tr>
<tr>
<td>Last PDU from</td>
<td>Last PDU Origin. This is the MAC address of the last MVRP PDU received in this port.</td>
</tr>
</tbody>
</table>
**VLAN commands**

These commands are used to configure the VLAN Registration table.

**Syntax**

```
vlan <VID> member <port number>
```

<table>
<thead>
<tr>
<th><strong>Description</strong></th>
<th>Set a new VLAN entry in the VLAN Registration table.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Options</strong></td>
<td>&lt;VID&gt; VLAN identifier. Allowed values are in the range 1 to 4095.</td>
</tr>
<tr>
<td></td>
<td>&lt;port number&gt; Port number. You may also use several port numbers separated by commas in order to affect several ports at the same time.</td>
</tr>
</tbody>
</table>

**Syntax**

```
show vlan
```

<table>
<thead>
<tr>
<th><strong>Description</strong></th>
<th>Display some of the contents of the VLAN registration table.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Options</strong></td>
<td>This command has no options.</td>
</tr>
</tbody>
</table>

**Output:**

```
WR-Switch> show vlan
VLAN   FID    Ports
----   ---    --------------------------------
  0     0      0, 1, 2, 3, 4, 5, 6, 7, 8,
         9, 10, 11, 12, 13, 14, 15, 16,
         17, 18, 19, 20, 21, 22, 23, 24,
         25, 26, 27, 28, 29, 30, 31,
```

**Columns:**

- **VLAN** VLAN number.
- **FID** The Filtering Database identifier for this VLAN.
- **Ports** The list of logical egress ports enabled for this VLAN.
**VLAN Learning Constraints commands**

These commands are used to configure the VLAN Learning Constraints table. If no entry is specified in the table, then an Independent VLAN Learning Constraint rule is assumed for each VLAN to be registered (this default behavior may be modified by changing the Learning Constraint type to Shared for the Set ID 0 and for any given VLAN).

**Syntax**  
`learning-constraints shared set-id <SID> vlan <VID>`

**Description**  
Set a Shared VLAN Learning Constraint rule for a given Set ID and VLAN.

**Options**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;SID&gt;</code></td>
<td>The VLAN Learning Constraints Set Identifier. Allowed values are in the range 0 to 31.</td>
</tr>
<tr>
<td><code>&lt;VID&gt;</code></td>
<td>VLAN identifier. Allowed values are in the range 1 to 4095.</td>
</tr>
</tbody>
</table>

**Output:**

The operation may be rejected if any inconsistence is found, either in the VLAN Learning Constraints Table or in the VID to FID allocation Table. However, be aware that inconsistencies may not be reported.

**Syntax**  
`learning-constraints independent set-id <SID> vlan <VID>`

**Description**  
Set an Independent VLAN Learning Constraint rule for a given Set ID and VLAN.

**Options**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;SID&gt;</code></td>
<td>The VLAN Learning Constraints Set Identifier. Allowed values are in the range 0 to 31.</td>
</tr>
<tr>
<td><code>&lt;VID&gt;</code></td>
<td>VLAN identifier. Allowed values are in the range 1 to 4095.</td>
</tr>
</tbody>
</table>

**Output:**

The operation may be rejected if any inconsistence is found, either in the VLAN Learning Constraints Table or in the VID to FID allocation Table. However, be aware that inconsistencies may not be reported.
### Syntax
```
show learning-constraints
```

<table>
<thead>
<tr>
<th><strong>Description</strong></th>
<th>Display the contents in the VLAN Learning Constraints Table.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Options</strong></td>
<td>This command has no options.</td>
</tr>
</tbody>
</table>

**Output:**

```
WR-Switch> show learning-constraints
Set ID  Type          VID
------  ----------    -----------
  5      Shared       5, 10
 10     Independent  15
```

- **Set ID**: The VLAN Learning Contraints Set Identifier.
- **Type**: The type of the Learning Constraint: *Shared* or *Independent*.
- **VID**: The list of VLANs to which this rule applies.

### Syntax
```
show learning-constraints vlan <VID>
```

<table>
<thead>
<tr>
<th><strong>Description</strong></th>
<th>Display the VLAN Learning Constraints for a given VLAN.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Options</strong></td>
<td>&lt;VID&gt; VLAN identifier. Allowed values are in the range 1 to 4095.</td>
</tr>
</tbody>
</table>

**Output:**

```
WR-Switch> show learning-constraints vlan 5
Set ID  Type
------  ----
   5    Shared
```

- **Set ID**: The VLAN Learning Constraints Set Identifier.
- **Type**: The type of the Learning Constraint: *Shared* or *Independent*.

### Syntax
```
no learning-constraints set-id <SID> vlan <VID>
```

<table>
<thead>
<tr>
<th><strong>Description</strong></th>
<th>Remove a VLAN Learning Constraint rule for a given Set ID and VLAN.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Options</strong></td>
<td>&lt;SID&gt; The VLAN Learning Constraints Set Identifier. Allowed values are in the range 0 to 31.</td>
</tr>
<tr>
<td></td>
<td>&lt;VID&gt; VLAN identifier. Allowed values are in the range 1 to 4095.</td>
</tr>
<tr>
<td>range 1 to 4095.</td>
<td></td>
</tr>
</tbody>
</table>
**VID to FID allocation commands**

These commands are used to configure the VID to FID allocations table.

**Syntax**

```plaintext
allocations vlan <VID> fid <FID>
```

<table>
<thead>
<tr>
<th>Description</th>
<th>Establish a Fixed allocation of a VID to an FID</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Options</strong></td>
<td><strong>&lt;VID&gt;</strong> VLAN identifier. Allowed values are in the range 1 to 4095.</td>
</tr>
<tr>
<td></td>
<td><strong>&lt;FID&gt;</strong> Filtering Database identifier. Allowed values are in the range 1 to 255.</td>
</tr>
</tbody>
</table>

**Output:**

Operation rejected if any inconsistency has been found with the VLAN Learning Constraints Table.

**Syntax**

```plaintext
show allocations
```

<table>
<thead>
<tr>
<th>Description</th>
<th>Display the contents of the VID to FID allocation Table.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Options</strong></td>
<td>This command has no options.</td>
</tr>
</tbody>
</table>

**Output:**

```plaintext
WR-Switch> show allocations
VID    Type       FID
----    --------   ---
 0      Dynamic   1
10      Fixed     5
```

<table>
<thead>
<tr>
<th>VID</th>
<th>The VLAN identifier.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>The type of allocation: Fixed or Dynamic.</td>
</tr>
<tr>
<td>FID</td>
<td>The Filtering Database identifier.</td>
</tr>
</tbody>
</table>

**Syntax**

```plaintext
show allocations vlan <VID>
```

<table>
<thead>
<tr>
<th>Description</th>
<th>Display the FID to which a specified VID is currently allocated.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Options</strong></td>
<td><strong>&lt;VID&gt;</strong> VLAN identifier. Allowed values are in the</td>
</tr>
</tbody>
</table>
Output:

WR-Switch> show allocations vlan 5
    VID  Type    FID
      5    Undefined  0

VID: The VLAN identifier.
Type: The type of allocation: Fixed, Dynamic or Undefined.
FID: The Filtering Database identifier.

Syntax: show allocations fid <FID>

Description: Display all VIDs currently allocated to a given FID.

Options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;FID&gt;</td>
<td>Filtering Database identifier. Allowed values are in the range 1 to 255.</td>
</tr>
</tbody>
</table>

Output:

WR-Switch> show allocations fid 5
    FID   Type   VID
    5     Fixed  10

FID: The Filtering Database identifier.
Type: The type of allocation: Fixed or Dynamic.
VID: The VLAN identifier.

Syntax: no allocations vlan <VID>

Description: Remove a Fixed VID to FID allocation from the VID to FID allocation table.

Options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;VID&gt;</td>
<td>VLAN identifier. Allowed values are in the range 1 to 4095.</td>
</tr>
</tbody>
</table>

Output: Operation rejected if any inconsistence has been found.
**MVRP commands**

These commands are used to configure the Multiple VLAN Registration Protocol.

<table>
<thead>
<tr>
<th>Syntax</th>
<th>mvrp enable</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Enable the MVRP operation on the device.</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>This command has no options.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Syntax</th>
<th>mvrp disable</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Disable the MVRP operation on the device.</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>This command has no options.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Syntax</th>
<th>mvrp port &lt;port number&gt; enable</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Enable the MVRP operation on this port.</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>&lt;port number&gt; Port number. You may also use several port numbers separated by commas in order to affect several ports at the same time.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Syntax</th>
<th>mvrp port &lt;port number&gt; disable</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Disable the MVRP operation on this port.</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>&lt;port number&gt; Port number. You may also use several port numbers separated by commas in order to affect several ports at the same time.</td>
</tr>
</tbody>
</table>

---

2 See also the `show interface information` command for further MVRP information.
### Syntax
```
mvrp port <port number> restricted-registration enable
```

### Description
Enable the state of the Restricted VLAN Registration parameter on this port.

### Options
- `<port number>` Port number. You may also use several port numbers separated by commas in order to affect several ports at the same time.

### Syntax
```
mvrp port <port number> restricted-registration disable
```

### Description
Disable the state of the Restricted VLAN Registration parameter on this port.

### Options
- `<port number>` Port number. You may also use several port numbers separated by commas in order to affect several ports at the same time.

### Syntax
```
show mvrp status
```

### Description
Display the MVRP Enabled status.

### Options
This command has no options.

### Output:
```
WR-Switch> show mvrp status
    MVRP status: Enabled
```

MVRP status The MVRP Enabled status.