

# Router

**Library version:** RENAT 0.1.10  
**Library scope:** test suite  
**Named arguments:** supported

## Introduction

A class provides keywords for router control. An instance of Router class automatically assigned methods of a VChannel class (**Note:** this is not an inheritance but rather 1-to-1 relation)

See [VChannel](#) for more details about *VChannel*.

Device's `type` is defined in master `device.yaml`. The system will load appropriate modules for each device.

Details about keywords provided by modules could be found in document of each module likes:

- [Juniper module](#)
- [Cisco module](#)
- [GR module](#)

Keywords provides by above module could be executed through *Xrun* keyword or directly called from `Router`. Examples:

Router. <i>Switch</i>	vmx12
Router. <i>Xrun</i>	Load Config
Router. <i>Load Config</i>	

## Shortcuts

Follow Mib · Xrun

## Keywords

Keyword	Arguments	Documentation
Follow Mib	<i>node_list</i> , <i>wait_time=10s</i> , <i>interval_time=5s</i> , <i>len=12</i> , <i>percentile=80</i> , <i>threshold=75</i> , <i>max_len=300</i> , <i>factor=1</i>	<p>Waits until all the nodes defined in <code>node_list</code> become <code>stable</code>.</p> <p>Stableness is checked by SNMP polling result. The MIB list is define by <code>mib</code> in <code>node</code> section Parameter:</p> <ul style="list-style-type: none"><li>▪ <code>wait_time(1)</code>: the time before the evaluation starting</li><li>▪ <code>interval_time(2)</code>: interval between SNMP polling time</li><li>▪ <code>threshold</code>: below this value is evaluated as <code>stable</code></li><li>▪ <code>len(3)</code>: the size of the evaluation window (number of values that are used in each valuation)</li><li>▪ <code>percentile</code>: real useful percentage of data (ignore top 100-percentile percent)</li><li>▪ <code>max_len(4)</code>: maximum waiting <code>lend</code> for this checking</li></ul> <p>time sequence: --(1)--(2)- ----- ----- ----- ----- </p> <p>&lt;-----&gt;(3)-----&gt; poll poll</p> <p>&lt;-----&gt;(3)-----&gt;</p> <p>&lt;-----&gt;(4)-----&gt;</p>
Xrun	<i>cmd</i> , <i>*args</i> , <i>**kwargs</i>	<p>Runs the vendor independent keywords.</p> <p>Parametes:</p> <ul style="list-style-type: none"><li>▪ <code>cmd</code>: a keyword</li><li>▪ <code>args</code>: other argumemts</li></ul> <p>Examples:</p> <p>Router.<i>Xrun</i> Flap Interface ge-0/0/0</p> <p>This keyword will then actually calling the correspond keyword for the device type.</p>

