

Router

Library version: RENAT 0.1.8
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">▪ <code>wait_time(1)</code>: the time before the evaluation starting▪ <code>interval_time(2)</code>: interval between SNMP polling time▪ <code>threshold</code>: below this value is evaluated as <code>stable</code>▪ <code>len(3)</code>: the size of the evaluation window (number of values that are used in each valuation)▪ <code>percentile</code>: real useful percentage of data (ignore top 100-percentile percent)▪ <code>max_len(4)</code>: maximum waiting <code>lend</code> for this checking <p>time sequence: --(1)--(2)- ----- ----- ----- ----- <-----(3)-----> poll poll <-----(3)-----> <------(4)-----></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">▪ <code>cmd</code>: a keyword▪ <code>args</code>: other argumemts <p>Examples:</p> <div>Router.<i>Xrun</i> Flap Interface ge-0/0/0</div> <p>This keyword will then actually calling the correspond keyword for the device type.</p> |

