

# OpticalSwitch

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

## Introduction

A library provides control for L1 Optical Switch

Unlike other device, there is no *Switch* keywork with optical switch. Usually user only need to care about the interfaces not the ports of the switches.

## Shortcuts

**Add** · **Clear By File** · **Close All** · **Connect All** · **Delete** · **Get Connection Info** · **Load From File** · **Save To File**

## Keywords

Keyword	Arguments	Documentation						
<b>Add</b>	<i>dev1, intf1, dev2, intf2, direction=bi, force=False</i>	Adds a connection. See details in each module help						
<b>Clear By File</b>	<i>file_name=, comment=#</i>	Clears all x-connections defined in the <i>connection file</i> Default <i>connection file</i> is defined in <code>optic/connection</code> of <code>config/local.yaml</code>						
<b>Close All</b>		Close all connections						
<b>Connect All</b>		Connect to all L1 switch and read all necessary information						
<b>Delete</b>	<i>dev1, intf1, dev2, intf2, direction=bi, force=False</i>	Deletes a connection. See details in each module help						
<b>Get Connection Info</b>	<i>dev, intf</i>	Returns connection information. See details in each module help.						
<b>Load From File</b>	<i>file_name=, force=True, comment=#</i>	Loads the connection file and set the connections  <code>filename</code> is the name of the connection file under the current config folder. If <code>filename</code> is empty, the value of <code>optic/connection</code> from <code>config/local.yaml</code> will be used.  The <code>connection file</code> supports <code>jinja2</code> template language. Besides, <code>#</code> is the default comment char which could be changed  The format of <code>connection file</code> follows: <ul style="list-style-type: none"><li>■ each connection is described by 1 line</li><li>■ <code>source</code> and <code>destination</code> are separated by <code>` - or &gt; </code>, which mean <code>`bidirection</code> or <code>unidirection</code> (unidirection connects <code>source tx</code> to <code>dest rx</code>)</li></ul> Connection file sample: <pre>device1:port1 - device2:port2 device1:port3 &gt; device2:port</pre> Examples: <table><tr><td><code>OpticalSwitch.</code></td><td><code><a href="#">Load From File</a></code></td><td></td></tr><tr><td><code>OpticalSwitch.</code></td><td><code><a href="#">Load From File</a></code></td><td><code>save1.conn</code></td></tr></table>	<code>OpticalSwitch.</code>	<code><a href="#">Load From File</a></code>		<code>OpticalSwitch.</code>	<code><a href="#">Load From File</a></code>	<code>save1.conn</code>
<code>OpticalSwitch.</code>	<code><a href="#">Load From File</a></code>							
<code>OpticalSwitch.</code>	<code><a href="#">Load From File</a></code>	<code>save1.conn</code>						
<b>Save To File</b>	<i>file_name</i>	Saves the current connection of all devices in this test.  By default, all interfaces of the devices are save. If a connection file is given, only interfaces specified in the connection file are saved  Examples: <table><tr><td><code>OpticalSwitch.</code></td><td><code><a href="#">Save To File</a></code></td><td><code>save1.conn</code></td></tr></table>	<code>OpticalSwitch.</code>	<code><a href="#">Save To File</a></code>	<code>save1.conn</code>			
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Altogether 8 keywords.

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