

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

