calient

Library scope:	global
Named arguments:	supported

Introduction

A library provides control for Calient Optical Switch

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Master file

The L1 switch provides a mechanism to remotely connect device interface. Each device interface has been wired to L1 switch already. The connection was described in the master file located specific by *calient-master-path* in the configuration file *renat/config/config.yaml*.

The master file includes several Calients in each tab. The column meaning and order is trivial.

Connection file Format

Keywords *Load From File*, *Clear By File* and *Save To File* use the x-connection file. X-connection files are text files and have the following format:

```
# this is the comment
device1,interface1,-,device2,interface2
device1,interface1,>,device2,interface2
```

The separator `-` means a bidirection connection and `>` means a unidirection connection. For a unidirection connection, `device1/interface1` TX will be connected to `device2/interface2` RX.

Note: The separator character must be surrounded by spaces or commas.

The connection file also support jinja2 template format. After the template is evaluated, comment could be used by `comment char`

There is no need to specify which L1 switch for the x-connection. The system will automatically find the appropriate switch.

Shortcuts

Add · **D**elete · **G**et Connection Info

Keywords

Keyword	Arguments	Documentation
Add	*self*, *dev1*, *intf1*, *dev2*, *intf2*, *direction=bi*, *force=False*	Adds x-connection between `dev1:intf1` and `dev2:intf2` `direction` is `bi` for bi-direction or `uni` for uni-direction. If `direction` is `uni`, the tx of `dev 1:port 1` will be connected to `dev 2:port 2`. With `force` mode, existed connection that use those ports will be deleted. Without `force` mode, an existed connection will make the keyword fails Examples: `OpticalSwitch.Add` `mx2008-31-33` `xe-3/0/0` `mx2008-31-33` `xe-3/0/1` `bi` `${TRUE}` **Note**: when `force` is `False` but the current ports is owned by the same connection endpoints, keyword will succeed. For a bidirection connection, 2 single uni-direction connection will be made instead of 1 bi-direction connection. This will make the link could be simulated tx/rx failure later.
Delete	*self*, *dev1*, *intf1*, *dev2*, *intf2*, *direction=bi*, *force=False*	Deletes the connection between `dev1:intf1 - dev2:intf2` Examples: `OpticalSwitch.Delete` `mx2008-31-33` `xe-3/0/1` `mx2008-31-33` `xe-3/0/1` `uni`
Get Connection Info	*self*, *dev*, *intf*	Returns information of the optic switch port that connected to `dev:intf`. The information is in jason format. Examples: `OpticalSwitch.Get Connection Info` `mx2008-31-33` `xe-3/0/1` return information looks like below: result = {u'outoc': u'NOHW', u'outopwdh': u'-20.0', u'inos': u'OOS', u'outalias': u'', u'inowner': u'TRANSIT', u'outopwct': u'-23.0', u'inpower': u'-3.4', u'inas': u'IS', u'outpower': u'-4.8', u'outas': u'OOS-NP', u'inopt': u'-17.0', u'inopth': u'13.0', u'incircuit': u'3.3.1>3.3.2', u'inalias': u'',

		u'inoc': u'NOHW', u'inoptc': u'-20.0', u'outos': u'OOS', u'port': u'3.3.1', u'outowner': u'NONE', u'outcircuit': u''}

Altogether 3 keywords.
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