Attached are several files to demonstrate the value of yanglint.

Yanglint is found: [https://github.com/CESNET/libyang](https://github.com/CESNET/libyang)

There are several packages that are needed in order to get libyang installed. There are YANGsters that have installed the tools on WSL ([https://docs.microsoft.com/en-us/windows/wsl/install-win10](https://docs.microsoft.com/en-us/windows/wsl/install-win10)) and in a Oracle VirtualBox running Ubuntu 18.04.

Some of the published YANG for bridge management had to be modified slightly to fix various issues with XPath navigation and constraint checking.

Files included:

- ieee802-dot1q-bridge.yang: updated version of published module
- ieee802-dot1q-pb.yang: updated version of published module
- ieee802-dot1q-types.yang: updated version of published module
- basic-vlan-bridge-static.xml, qcp-bridge-config[1-4].xml are example configuration files that can be loaded and tested in yanglint.

**Updated version of ieee802-dot1q-bridge.yang**

Here is the diff that shows:

< := new version of ieee802-dot1q-bridge.yang

> := published version from yang catalog’s github

```
436c436
<    when "../../bridge-type != 'dot1q:two-port-mac-relay-bridge'" { 
---
>    when "../../bridge-type != 'two-port-mac-relay-bridge'" { 
763c763
<    when "../../bridge-type != 'dot1q:two-port-mac-relay-bridge'" { 
---
>    when "../../bridge-type != 'two-port-mac-relay-bridge'" { 
1089c1089
<    when "../../bridge-type != 'dot1q:two-port-mac-relay-bridge'" { 
---
>    when "../../bridge-type != 'two-port-mac-relay-bridge'" { 
1163,1170d1162
```
<leaf name="bridge-name">
  <type name="leafref">
    <path name="/dot1q:bridges/dot1q:bridge/dot1q:name"/>
  </type>
  <description name="Used to reference configured Bridge node."/>
</leaf>

type leafref {
  path "/dot1q:bridges/dot1q:bridge[dot1q:name=current()]/../dot1q:bridge-name/dot1q:component/dot1q:name";
}

// mandatory true; yang 1.1 only

type string;

when "/dot1q:bridges/dot1q:bridge[dot1q:name=current()]+"/
  "/..dot1q:bridge-name[/dot1q:component[name=current()]+"/
  "..dot1q:component-name[/dot1q:type != 'dot1q:d-bridge-component'" 
when "./.component-name != 'd-bridge-component'" 
when "/dot1q:bridges/dot1q:bridge[dot1q:name=current()]+"/
  "/..dot1q:bridge-name[/dot1q:component[name=current()]+"/
  "..dot1q:component-name[/dot1q:type != 'dot1q:d-bridge-component'" 
when "./.component-name != 'd-bridge-component'" 

< when "'/dot1q:bridges/dot1q:bridge[dot1q:name=current()]"+ 
< '/.../dot1q:bridge-name]/dot1q:component[name=current()]"+ 
< "'/../dot1q:component-name]/dot1q:type != 'dot1q:d-bridge-component'" { 
---
> when "../component-name != 'd-bridge-component'" { 
1501,1503c1474
< when "'/dot1q:bridges/dot1q:bridge[dot1q:name=current()]"+ 
< '/.../dot1q:bridge-name]/dot1q:component[name=current()]"+ 
< "'/../dot1q:component-name]/dot1q:type != 'dot1q:d-bridge-component'" { 
---
> when "../component-name != 'd-bridge-component'" { 
1686,1688c1657
< when "'/dot1q:bridges/dot1q:bridge[dot1q:name=current()]"+ 
< '/.../dot1q:bridge-name]/dot1q:component[name=current()]"+ 
< "'/../dot1q:component-name]/dot1q:type != 'dot1q:d-bridge-component'" { 
---
> when "../component-name != 'd-bridge-component'" { 
1706,1708c1675
< when "'/dot1q:bridges/dot1q:bridge[dot1q:name=current()]"+ 
< '/.../dot1q:bridge-name]/dot1q:component[name=current()]"+ 
< "'/../dot1q:component-name]/dot1q:type != 'dot1q:d-bridge-component'" { 
---
> when "../component-name != 'd-bridge-component'" { 
1749,1751c1716
< when "'/dot1q:bridges/dot1q:bridge[dot1q:name=current()]"+ 
< '/.../dot1q:bridge-name]/dot1q:component[name=current()]"+ 
< "'/../dot1q:component-name]/dot1q:type != 'dot1q:d-bridge-component'" { 
---
when "./component-name != 'd-bridge-component'" { 

**Updated version of ieee802-dot1-pb-diff**

Here is the diff that shows:

< := new version of ieee802-dot1q-pb.yang

> := published version from yang catalog’s github

52,54c52,53

< when "/dot1q:bridges/dot1q:bridge[dot1q:name=current()]
< "/../dot1q:bridge-name]/dot1q:component[dot1q:name=current()]
< "/../dot1q:component-name]/dot1q:type = 'dot1q:c-vlan-component' and "+

---

> when

> "./dot1q:component-name = 'dot1q:c-vlan-component' and "+

108,110c107,108

< when "/dot1q:bridges/dot1q:bridge[dot1q:name=current()]
< "/../dot1q:bridge-name]/dot1q:component[dot1q:name=current()]
< "/../dot1q:component-name]/dot1q:type = 'dot1q:c-vlan-component' and "+

---

> when

> "./dot1q:component-name = 'dot1q:c-vlan-component' and "+

139,141c137,138

< when "/dot1q:bridges/dot1q:bridge[dot1q:name=current()]
< "/../dot1q:bridge-name]/dot1q:component[dot1q:name=current()]
< "/../dot1q:component-name]/dot1q:type = 'dot1q:s-vlan-component' and "+

---

> when

> "./dot1q:component-name = 'dot1q:s-vlan-component' and "+
Updated version of ieee802-dot1-types
< := new version of ieee802-dot1q-pb.yang
> := published version from yang catalog’s github

134,140c84,87
< "([1-9][0-9]{0,2}|[1-3][0-9]{3}|[4][0][0-9][0-4])"+
< "(([\-\.]([1-9][0-9]{0,2}|[1-3][0-9]{3}|[4][0][0-9][0-4]))?)*";
<
  //"([1-9])"
<  //"[0-9]{0,3}"
<  //"([-1-9][0-9]){0,3})"+
<  //"(.([1-9][0-9]{0,3}([-1-9][0-9]){0,3})?)";
---
> "([1-9])"
>  "[0-9]{0,3}"
>  "([-1-9][0-9]){0,3})"+
>  "(.([1-9][0-9]{0,3}([-1-9][0-9]){0,3})?)";