

Article Title:	OSPF cost when OSPF neighborship form with software switch.
External <input checked="" type="checkbox"/> Internal Only <input type="checkbox"/>	
Applicable Product(s), Firmware(s):	All fortios
Question / Description of problem	<p>Fortigate calculate the OSPF version 2 cost based on RFC 2328.</p> <p>When OSPF neighborship form with software switch, it will show cost as 100 despite of interface which is part of software switch negotiating at 1000 Mbps and reference bandwidth value as 1000Mbps.</p> <p>Negotiated bandwidth is 1000Mbps,  <pre># get hardware nic &lt;interface_name&gt; Speed           :1000 Duplex          :Full link_status     :Up</pre></p> <p>Reference Bandwidth,  <pre>config router ospf   set auto-cost-ref-bandwidth 1000</pre></p> <p>Ideally cost should be 1, as the interface is part of software switch, it shows cost 100.</p> <pre>soft_1 is up, line protocol is up   Internet Address 192.168.194.2/24, Area 0.0.0.0, MTU 1500   Process ID 0, VRF 0, Router ID 2.2.2.2, Network Type BROADCAST, Cost: 100</pre> <p>Due to this behaviour, it makes difficult to steer traffic appropriately.</p>
Solution	<p>To remediate this behaviour, use hardware switch instead of software switch</p> <pre>Hardware_1 is up, line protocol is up   Internet Address 192.168.194.1/24, Area 0.0.0.0, MTU 1500   Process ID 0, VRF 0, Router ID 1.1.1.1, Network Type BROADCAST, Cost: 1</pre> <p>This is default behaviour with software switch.</p>
Internal Notes (optional)	Ticket Number: 7514971
Related KB articles/BUGs (optional)	