

# Spirent TestCenter™

## 3D Topology Suite

Innovations like **Software-Defined Networking (SDN)** offer unprecedented flexibility and greater responsiveness. However for effective SDN deployment, **Service Providers, Data Center Operators, and Network Admins** are faced with several challenges, including testing of cloud-level traffic via **OpenFlow switches** without compromising network visibility and control.

### Features

- Complete OpenFlow Switch performance of SDN under test
- Graphical 3D visualization of the Switches attached to the SDN Controller; also facilitates multiple cluster visualization
- 360° navigation with point and click zoom, selection, rotation
- Flow creation and deletion with a single or multiple switches
- Statistical view of Switch, Flow and Interfaces Statistics
- Flexible data views and text labeling of node/interface/link

### Benefits

- Validate SDN infrastructure by testing at full scale prior to going to production
- Visualize the network topologies as broad or granular as desired with 360° view
- Optimize network resources and flows in half the time by adjusting resources while in view
- Increase productivity by detecting anomalies and troubleshooting bugs in real-time

Spirent TestCenter™ 3D Topology Suite is the industry-leading solution that allows customers to visualize and optimize the performance of new cloud-enabled network services and innovations like SDN. Spirent TestCenter leverages Hyperglance to provide the full-scale 360° topology visualization with interactive controls graphical user interface to optimize your SDN and cloud environments end-to-end.

3D Topology Suite provides an interactive, 360° view of complex network topologies under test. This allows test engineers to see what they are testing at a glance versus lack understanding of what is actually under test. It also helps detect anomalies and saves debugging time on issues that could be simply resolved by viewing the entire topology and its areas of congestion in real-time. Easily displaying several thousand switches in the single view helps to create context-aware network controls and gives users the ability to better scale a view of the network while easily identifying areas of congestion across entire network topologies. This ultimately results in more successful SDN deployments.

When it comes to testing networks in most complex topologies, there's never been anything like Spirent 3D topology Suite to easily visualize, monitor, and tune how the network infrastructure performs at full scale and in real-time, prior to deployment. Spirent TestCenter generates East-West and South bound traffic for thousands of flows through OpenFlow Switches, while dynamically displaying a 3D topology of the network and flows from any zoom-level.

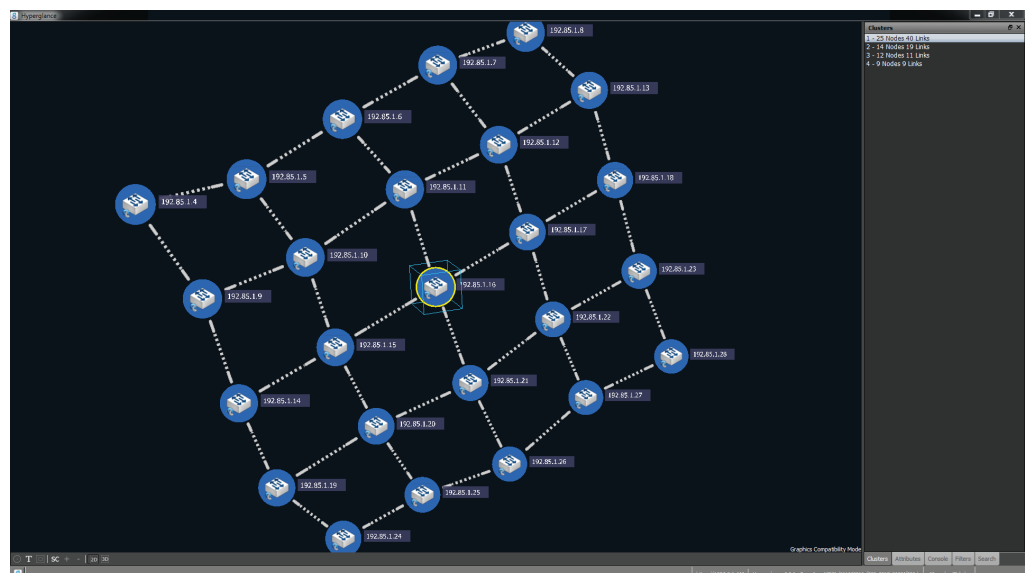


Figure: 3D Visualization of SDN Switches and Controllers

## Spirent Services

Spirent Global Services provides a variety of professional services, support services and education services—all focused on helping customers meet their complex testing and service assurance requirements. For more information, visit the Global Services website at [www.spirent.com](http://www.spirent.com) or contact your Spirent sales representative.

### Technical specifications

<b>3D Topology Suite</b>	<ul style="list-style-type: none"> <li>▪ Graphical 3D visualization of the Switches attached to the Controller</li> <li>▪ Switch Statistics</li> <li>▪ Flow Statistics</li> <li>▪ Switch Attributes</li> <li>▪ Interface Statistics</li> <li>▪ Flow creation and deletion on a single switch or multiple switches</li> <li>▪ Multiple cluster visualization</li> <li>▪ Text labeling (node/interface/link)</li> </ul>	
<b>Supported platforms</b>	<ul style="list-style-type: none"> <li>▪ Supported on the Spirent MX, MX2, FX, FX2, DX and DX2 Family modules</li> <li>▪ Supported on Spirent TestCenter Virtual</li> <li>▪ Supported on Spirent TestCenter C1 and C50</li> </ul>	
<b>Requirements</b>	<ul style="list-style-type: none"> <li>▪ Spirent TestCenter, Spirent TestCenter Virtual, or Spirent TestCenter C1</li> <li>▪ OpenFlow Controller Emulation (BPK-1193) or OpenFlow Switch Emulation (BPK-1195)</li> </ul>	
<b>Ordering information</b>	<ul style="list-style-type: none"> <li>▪ Spirent TestCenter 3D Topology Suite 250 Switches</li> <li>▪ Spirent TestCenter 3D Topology Suite 500 Switches</li> </ul>	<p>SHG-250</p> <p>SHG-500</p>
<b>Related</b>	<ul style="list-style-type: none"> <li>▪ EVPN Emulation</li> <li>▪ FCoE/DCBX Emulation</li> <li>▪ LISP Emulation</li> <li>▪ OpenFlow Controller Emulation</li> <li>▪ OpenFlow Switch Emulation</li> <li>▪ SPB Emulation</li> <li>▪ TRILL Emulation</li> <li>▪ VXLAN Emulation</li> </ul>	<p>BPK-1311A</p> <p>BPK-1081A</p> <p>BPK-1181A</p> <p>BPK-1193A</p> <p>BPK-1195A</p> <p>BPK-1182A</p> <p>BPK-1187A</p> <p>BPK-1310A</p>

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