

John Billups

Practice Area Manager

Network Infrastructure Team



SyCom Location

Richmond, Virginia

Education

Virginia Tech – Bachelor of Science in Computer Science

Phillips Petroleum Company – Methodology Training

USWest – Data Networking Curriculum

Numerous Cisco training classes seminars and labs

Certifications

Cisco Certified Internetwork Expert (CCIE) - 2002-2012

Free Time

John has recently moved into the “empty nester” phase of life. Prior to his boys moving out of the family home, he enjoyed being a Boy Scout leader and Little League coach. Now, he and his wife are trying to travel a little more.

John Billups has over 20 years of experience in the design, implementation, and troubleshooting of complex LAN and WAN infrastructures for enterprise organizations. His primary strengths encompass Cisco network infrastructure solutions, specifically routing, switching and security verticals.

John is adept at solving problems requiring creative solutions, critical thought, and the utilization of years of network engineering experience and training. He has extensive experience in deploying highly available network infrastructure technologies with an extremely low tolerance for downtime.

Experience

- 21 years in the Professional Services industry working with organizations to design technical solutions, perform project deployments, and provide ongoing maintenance in support of their IT operations.
- Network virtualization using VRF's, Cisco Nexus VDC's, and MPLS technologies.
- WAN technologies including MPLS, VPLS, Frame-Relay, ATM and DMVPN. Extensive dual homed/dual carrier Internet peering for inbound and outbound redundancy.
- L2L VPN's, remote access VPN's and GRE/IPSEC.
- Designing and implementing Cisco UC systems.
- Design services including providing hardware specifications, scopes of work, and implementation plans in order to bring the projects to fruition.
- Twelve years as active Cisco Route-Switch CCIE - 2002-2014.
- Projects include design and implementation of MPLS backbone at major university (2nd non-carrier MPLS implemented in US). Multicarrier load-balanced redundant internet for national enterprise with internet



circuits in two states. Dual path WAN for national organization with MPLS and Internet transports utilizing DMVPN over both transports. Core switch replacement in Hospital resulting in 15 seconds of down-time. Nexus 7k datacenter core implementation moving core routing functionality from existing Catalyst to N7k resulting in zero downtime. Implemented segmentation and security services for international enterprise to achieve PCI compliancy.

Technical Qualifications

- Datacenter qualifications: Virtual Switching System (VSS), VDC, OTV, vPC, Nexus and NX-OS.
- Routing/switching qualifications: VRF, MP-BGP, EIGRP, OSPF, BGP, RIP, GRE tunneling, MPLS, Spanning-tree protocols, VLAN trunking, ether-channels, First-hop routing protocols (i.e. HSRP).
- WAN technologies: Frame relay, MPLS, Broadband, IPSEC VPN, DMVPN, QoS, DLSW.
- Security technologies: Cisco ASA, IOS crypto features, Access Control Server (ACS).

