



# Routing & Switching Services

**Enabling networks to become a strategic business asset through effective planning, integration and support.**

## **Addressing the needs of today's business.**

Flexible and agile new business models play a fundamental part in today's business environment, where customers increasingly expect a customised and personal experience above and beyond your existing service portfolio. IT plays a pivotal role across many businesses in enabling progress, delivering new capabilities whilst also running the existing business. In order to succeed in this ever evolving marketplace requires effective network support and increased utilisation of system resources. Business and information technology goes hand in hand, with the network acting as the core to all the people, locations, resources, and applications of a business.

## **Achievement through collaboration**

In partnership with your internal support team and our technical specialists, we take an integrated approach to helping you create a more sophisticated, responsive, unified network. Through an extensive portfolio of routing & switching services, Pivotal Networks can help you fuse together your IT infrastructure in-line with the needs of your business, creating an optimised, secure, fluid network capable of addressing any future system requirements and device additions.



## **Efficient preparation and design to enhance performance and allow scalability**

The progress of any business is dependent on the integration of new technologies, devices and applications onto the routing and switching platform. Effective integration relies on a precise assessment of the network and general promptness to support proposed solutions which Pivotal Networks can deliver on your behalf.

> **Preparation:** Pivotal Networks can evaluate your network capabilities, services, and solution requirements ensuring that planned changes are in alignment with your business goals. Pivotal Networks are able to assess availability issues such as infrastructure design, operational efficiencies and security, making recommendations to help you proactively address any issues.

> **Design:** Outlining a detailed design is fundamental to reducing risk, delays, and the total cost of network deployments. Pivotal Networks can put into operation a tailored design that you can use to implement your network. Your technical requirements and network design goals are considered in order to create an infrastructure optimised for your business that can enhance performance, maximise security and scale to support future change.

### Streamlined for business evolution

Pivotal Networks will assist you in making sure your routing and switching networks remain optimised to support your business objectives. We share our technical knowledge and leading operational practices, complementing your internal teams. We combine a wide portfolio of routing & switching services incorporating network assessment, network support, and network learning which is focused on optimising your core routing and switching network to meet future requirements, helping your team succeed with new technologies. Outlined below are a selection of some of the key routing & switching services we provide all our customers with.

### Routing & Switching Design and Consultancy

- > Certified engineers providing vendor neutral network consultancy
  - Network design
  - Validation
  - Capacity Planning
  - Detailed LAN diagrams
  - Training Suggestions

### Routing & Switching Implementation

- > Certified engineers providing vendor neutral network implementation
  - VLAN Segmentation
  - Resiliency Protocols (STP, RSTP, HSRP, VRRP)
  - Routing Protocols (OSPF, EIGRP, BGP)
  - VRF's (Virtual Routing Forwarding)
  - Quality of Service profiles
  - Multicast planning for IPTV
  - VOIP readiness
  - VMware integration
  - Multi-vendor installation
  - Blade Server/Switch integration

### Routing & Switching Health Check

Review of the current network and recommendations for improvement

- Review of network architecture
- Locate logical/physical inconsistencies
- Peak and average traffic levels
- Network protocol utilisation
- Network errors

Report produced to include

- Detailed diagram of the network
- Graphical representation of traffic flows
- Recommendations for improvement and future growth
- Solution recommendations

