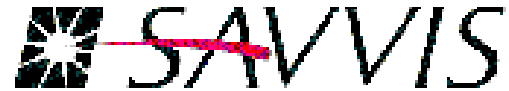




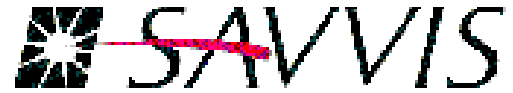
**SAVVIS Layer-3 VPN
Deployment Experience
using Virtual Routers
Approach**

Geoff Symonds

SAVVIS Communications Inc.



- **Global Network** - Americas, Europe, Africa, Middle East, Asia, Australia.
- **Network Reach** - We are present in all of the major financial cities in the world.
- **Business Class** - Internet Services, layer-3 VPNs, Managed Data Networks, Hosting.
- **Technology** - ATM, Frame Relay, IP and network-based VPNs using **VIRTUAL ROUTERS**.
- **Private OSPF Network** - One of the largest Private IP Networks with 5000 + routers globally.



- **Why Virtual Routing ?**

- **Performance, Manageable, Scalable and Secure.**
- **OSPF - Experience in OSPF maintained operational stability.**
- **Resilient - Dual circuit delivery, OSPF to the edge enabled management of client expectations who utilized HSRP/VRRP.**
- **Open to IPSec and MPLS tunneling technologies.**



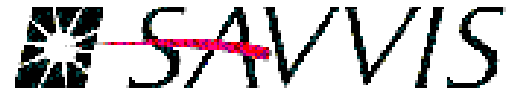
- **Why Virtual Routing ?**

- **ATM - Compliance with carrier-class core network. Direct Ethernet connectivity for multiple services.**
- **Products – VR/VPN offering for both intranet and extranet requirements.**
- **Internet resilient via VR solution.**



Virtual Routers do they work ?

- **Performance** - yes it performs, in our Engineering labs we have simulated 1000+ VPNs.
- **Manageable** - 50+ Core Nortel Shasta deployed globally. Americas 28, Europe 14, Asia 8. Easy to use GUI interface for both maintenance and provisioning.
- **Scalable** - 200+ Customer VPNs operational today. Largest VPN based VR has 2000+ sites.



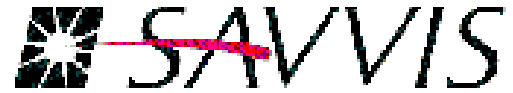
Virtual Routers do they work ?

- **Secure** - Security meshing on our VR Network via IPSEC Tunnels. Financial Institutions demand high security.
- **Security** - Additional security features offer easy to implement firewalling capabilities.
- **Recovery** - OSFP to the edge, dual circuit delivery, HSRP/VRRP



Virtual Routers do they work ?

- **Carrier Class - Resilient architecture, ATM OC48 capabilities, easy integration with core network.**
- **SAVVIS - Cost effective product solutions.**



- **Summary -**
 - **Proven architecture - performs/scalable**
 - **Secure**
 - **Easy to manage/provision**
 - **Carrier Class delivery - resilient**
 - **Cost effective customer solutions**