Chapter 6
Network Applications

This chapter provides an overview of possible network applications for HP 9304M and 9308M routing switches.

Network Applications

Routing Switch Applications

In this application, routing switches are enabled with 802.1Q/P VLANs and Selectable CoS and distributed in the wiring closets. The auto sensing, auto negotiating ability of each 10/100 Mbps port ensures seamless interoperability with existing workstations and servers.

The HP 9304M switches are then collapsed into the data center using Gigabit Ethernet down links. This enables the network manager to provide end users with a fully non-blocking, QoS enabled data and multi-media infrastructure. For increased redundancy, trunk groups can be deployed among the down links.

This wiring closet solution delivers ample bandwidth to end-users and servers while eliminating riser bottlenecks. The high Gigabit Ethernet port density and redundancy features of the HP 9308M make it ideal for the core of the network. The multi-protocol, wire-speed Layer 3 capabilities of the HP 9308M can be used to provide all the backbone routing. This ensures that high traffic volumes that traverse the backbone do not degrade network performance. In this network, servers have been consolidated into the data center for easier administration. Additionally, the explosion of web traffic has created a critical need for improved server performance and management. With an HP 9308M, servers receive dedicated 100 Mbps or 1 Gbps links. For added bandwidth and redundancy, users can trunk up to four 100 Mbps links into a single, redundant connection. By using policy-based VLANs, servers can be configured to appear as local to their sub-net, simplifying administration and management.

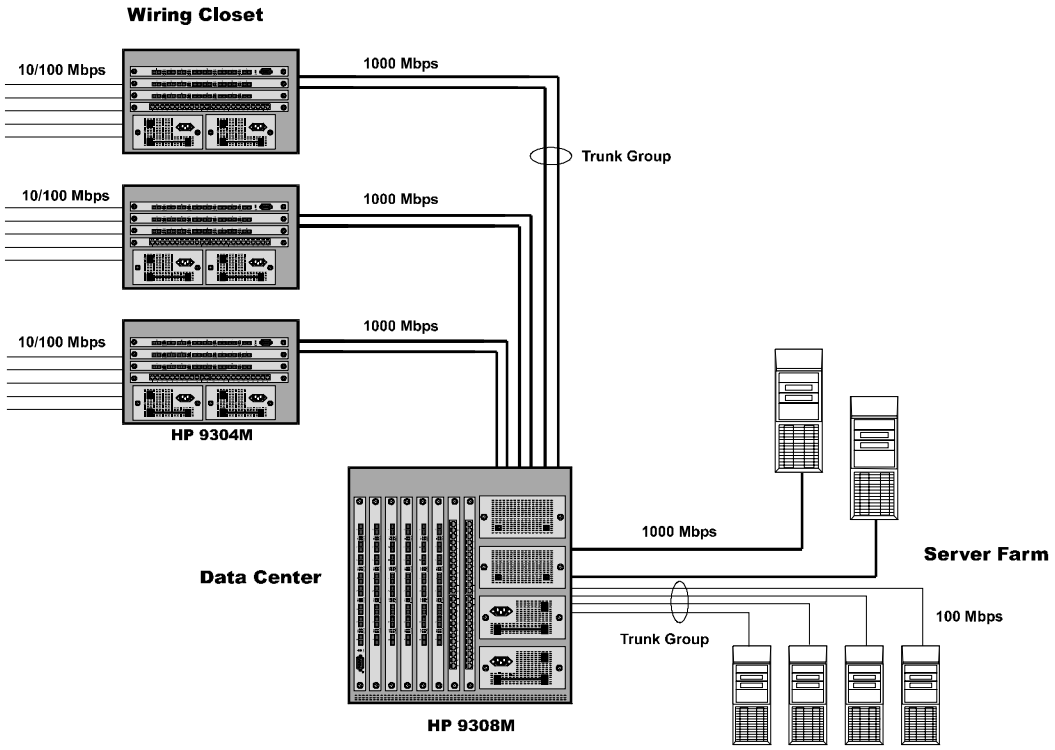

Figure 6.1 HP 9308M and HP 9304M network using trunk groups in a high-speed riser environment