New technology adoption is pushing enterprise networks to the breaking point

The heat is on for enterprise networks as demand and deployment rates for cloud, big data and analytics, mobile, social and IT security capabilities skyrocket.

Cloud computing ↑ 92%*

- More dynamic network capacity required for increasingly volatile traffic
- More high burst, high I/O applications (real-time analytics, voice and video) traversing the network

Big data and analytics ↑ 39%*

- Growing requirements from line-of-business executives looking for real-time insights
- Greater need for bandwidth on demand, especially for rapidly expanding Internet of Things and cloud-based analytics

↑ 106%* Social business

- Increased volume and variety of data traffic
- More bandwidth-intensive applications and technologies executed in real time (analytics, video streaming and social networks)

↑ 59%* Mobility

- Wider range of devices tapping into corporate networks, raising security, performance and management issues
- Existing wireless LANs (WLANs) forced to handle data volume they weren't designed for

* Deployment gains from 2012 to 2014

41% of IT decision makers say increasing network bandwidth is a top priority in preparing the infrastructure for big data[1]

In 2013, mobile traffic was almost **18x the traffic** across the whole Internet over a decade ago[2]

IT security

Increased network risks and exposures
- Mass interconnectivity
- Pervasive use of personal mobile devices in the workplace (BYOD)
- Dated network architectures and manual security controls
- Sensitive data in public clouds

Agility will be key

to handling the rapidly escalating volume, variety and velocity of traffic whenever, wherever and from whatever devices it originates

What can you do?

Alter your approach. Start managing and provisioning network components holistically along with servers, storage and applications.

Include network designers in big data, mobile, social and security initiatives. Do it early, when their input can do the most good, and you'll build in agility from the get-go.

Redefine the network to exceed technology demands and user expectations. Consider new tools and software defined technologies that automate and optimize network flow dynamically and continuously.

Virtualize the network. View the network as you do other IT components. Virtualize to improve resource utilization and availability while lowering costs and laying the groundwork for game-changing automation.

Correct wireless problems. Re-evaluate WiFi network coverage and capacity in order to provide users with the best experience possible.

Talk to IBM. We can help.

Learn more about the steps you can take to increase network agility

IBM's white paper, "Redefining networks for cloud, analytics, mobile, social and security: New technologies are pushing networks to the breaking point" examines the network implications and changes that will be needed to derive the greatest value from today's most talked about technologies.

Read the white paper today at: **http://bit.ly/NetworkBreakingPoint**

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