IRON BOW®
TECHNOLOGIES

# ENHANCE THE
NETWORK

TRANSFORM
PERFORMANCE

NETWORKING

Your network is the backbone of your IT platform. Yet, it may be the oldest part of your infrastructure. Today networks are more complex than ever before – stretching beyond the enterprise to incorporate mobile, cloud and IoT. This complexity requires a modern approach to simplify, automate and provide stronger native security all while meeting performance measures and expectations. Expectations include anytime, anywhere secure access, consistent performance across devices and single sign on ability. Iron Bow views your network in the context of business goals. We balance the requirements of competing enterprise technologies to optimize your network performance. Solutions are implemented on premise, via the cloud or in a hybrid model.

On average IT teams using **_software–defined storage_** spend **75% less time** devoted to storage-related help desk tickets & **83% less time** provisioning storage.

SOURCE: Thought Feast
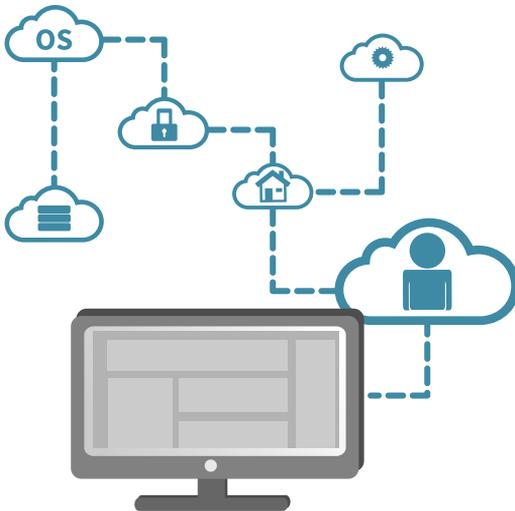
By 2020, almost *1/3 of enterprises* *will have some form of* **Software–defined WAN technology** *in operation.*

SOURCE: Techtarget

SOLUTIONS

Your network must evolve to support the new applications and devices that are added each day. Rip and replace is not an option. Iron Bow can help you identify your current state and assist you with development of a go forward plan that is future proof. Our expertise provides a roadmap of products and integration techniques that help clients chart the best path forward to the next generation network.

SOFTWARE-DEFINED NETWORKING (SDN)

A modern approach to traditional networking, SDN helps simplify, automate and secure IT assets and systems. This approach extends to WAN, LAN and Data Center solutions. Iron Bow works to introduce SDN into environments in a way that makes sense for each client.

SOFTWARE-DEFINED WAN

We bring an expertise in software-defined WAN to help optimize existing networks to migrate to a software-defined environment.

DATA CENTER NETWORKING

With data being one of an organization's most valuable assets, it is critical to future-proof the data center with the appropriate underlying infrastructure and bandwidth. Iron Bow understands networks and data centers as well as the applications that depend on them. This holistic experience ensures that everything will work together.

LAN/WAN INFRASTRUCTURE

Organizations must modernize both LAN and WAN to meet modern technology needs including IoT and mobile.

WIRELESS NETWORKING

Wireless networks depend on a wired connection to the Internet. We work to ensure consistent and unified behavior across wired and wireless environments.

SUCCESSFUL OUTCOMES

IRON BOW IN ACTION

Improving Wireless Access

Iron Bow provided full lifecycle professional services to design and implement a large scale Software Defined Networking (SDN) solution for a DoD resort facility. The SDN solution was introduced as a way to provide better guest access to wireless service. Our team successfully delivered a centrally managed and orchestrated solution that encompassed both wired and wireless network services leveraging Meraki's cloud-based networking solution. This included installing over 15,000 feet of new Single Mode Fiber (SMF) and 191 Cat5e plenum voice/data cable runs in support of the new guest networking infrastructure. Our experts planned and supported the migration from both the existing multi-mode fiber backbone and the legacy Ruckus wireless implementation to the new SDN solution. This approach introduced a software-driven, centrally managed solution to maximize the use of automation and streamline operations including single click provisioning.

Resolving Audit-Impacting Issues

A University Applied Physics Laboratory needed to resolve network issues. The University's SIPR network had been having issues with two applications not working. Facing an audit of the SIPR network, the University partnered with Iron Bow to avoid a SIPR connection shut down that would cause significant issues for the research department.

Iron Bow worked to ensure CAT 1 and 2 STIG and ACAC findings were addressed and that the network was stabilized and prepared for the upcoming audit. The team also reviewed configuration of Checkpoint firewalls with Cisco routers and switches specifically looking for configurations that were blocking the client's application from connecting back to the servers. Finally, Iron Bow provided a list of recommended changes. Upon project completion the University passed the DISA CCRI audit with an "excellent" score.

Deploying Self-Healing Technology

Iron Bow and the CENTECH Group were contracted to upgrade the Synchronous Optical Network (SONET) transport network from two existing OC-3 and OC-12 SONET rings to one consolidated OC-48 SONET ring. One of SONET's most interesting characteristics is its support for a ring topology. Normally, one piece of fiber – the working ring – handles all data traffic, but a second piece of fiber – the protection ring remains on standby. Should the working ring fail, SONET includes the capability to automatically detect the failure and transfer control to the protection ring in a very short period of time, often in a fraction of a second. For this reason, SONET can be described as a self-healing network technology.

STRONG
FLEXIBLE
TARGETED

STRONG.

Decades of experience working with government IT combined with the latest knowledge in software-defined technology ensures that deployment happens efficiently and effectively.

FLEXIBLE.

Technology is chosen with business and mission goals in mind. One size does not fit all.

TARGETED.

We look at key pain points and design a solution that will save money, increase efficiency and reduce complexity.

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