



COMPANY

MobileCo: leading US-based mobile operator

BUSINESS CHALLENGES

- Improve DNS scalability to handle rising load
- Support company IPv6 rollout initiatives
- Reduce BIND patching costs

SOLUTION

- Secure64 DNS Cache

BENEFITS

- Increased server scalability by 2x
- Enabled IPv6-ready infrastructure
- Maintained 100% customer availability
- Reduced patching frequency and cost

MobileCo is a national provider of wireless voice, messaging and data services for over 70 million subscribers.

“Secure64 provided twice the scalability of the BIND-based appliances it replaced with a much better security profile, facing the Internet alone, fighting off attacks, adding manager, etc.”

– Vice President of Network Engineering

How to Scale Without Adding Servers

MobileCo had a problem most businesses would love to have. Exponential growth in IP-enabled handsets and data usage was causing the load on its customer-facing DNS servers to rise rapidly with no end in sight. This increased load threatened to overwhelm its existing infrastructure of BIND-based appliances.

At the same time, the company knew that it needed additional DNS functionality to support its corporate IPv6 initiative. With IPv4 addresses running out and usage of smart-phones and hot-spots on the rise, MobileCo wanted to put in place a network infrastructure that could eventually support IPv6-only devices while still providing seamless access to the world of IPv4-only content servers. The company recognized that it needed more than just IPv6 network support to accomplish this.

The DNS Made Scalable and Secure

MobileCo evaluated a variety of commercial DNS appliance and software solutions. The BIND-based appliance solutions did not meet MobileCo’s business objectives for several reasons - because they could only scale by adding additional servers, they proved to be cost prohibitive, and they also did not solve either the IPv6 or patching problems. After extensive testing, MobileCo selected Secure64® DNS Cache to be deployed across its entire customer-facing network.

Secure64 DNS Cache is a caching DNS server that offers high performance combined with the highest level of security. Secure64 DNS Cache leverages the security capabilities of the Secure64 SourceT micro OS with its built-in DDoS defenses while utilizing a non-BIND based DNS application that is immune to BIND-specific security vulnerabilities. In addition, Secure64 DNS Cache combats botnets by allowing service providers to load one or more blacklists into the server so that queries for known botnet command and control centers can be detected, reported and blocked.

“Secure64 DNS Cache met all of our business objectives,” said MobileCo’s Vice President of Network Engineering. “It had twice the performance of the appliances it replaced and was the first product we evaluated with support for DNS64 – a critical technology that allowed us to move forward with our IPv6 initiative.”

On the Job Results

MobileCo began the deployment process by closely monitoring two First Office Application field trials and then, working hand-in-hand with the Secure64 professional services team, rolling the software out to all 19 sites, all of which occurred over the span of only three months. The entire deployment was completed on schedule in time for MobileCo's network freeze before the critical holiday season. The two biggest days of the year in terms of capacity demands – Black Friday and Cyber Monday – occur immediately after Thanksgiving and were supported seamlessly using the newly installed Secure64 DNS Cache product.



SECURE64™



MobileCo

"We have had DNS Cache in production for over four years and have been very satisfied with its performance," said the VP of Network Engineering.

"Not only has it increased our server scalability by a factor of 2x, but we have also eliminated a patching problem while maintaining 100% customer availability. Secure64 has also proven to be an excellent partner that listens and responds to customers input."

Learn more about Secure64 DNS Solutions at www.secure64.com

ABOUT SECURE64

Secure64 brings trust to the internet through its suite of purpose-built, secure, DNS-based network security products. The company was built on a foundation of security and has forged solutions that are self-protecting and immune to malware. Secure64 secures the DNS infrastructures of leading service providers, government agencies and enterprises globally.

ABOUT SECURE64 DNS CACHE

Secure64 DNS Cache is a highly secure caching server that's available at all times -- even during network attacks. Self-protecting, it requires no expensive security devices to protect it and it is not subject to BIND emergency patching. Software-based scalability eliminates the need to buy additional hardware.