FULLY AUTOMATED DNS OVER SOFTWARE–DEFINED NETWORKS/NETWORK FUNCTION VIRTUALISATION (SDN/VNF)

c-cor®
Engineering Tomorrows Networks

Each year there are more opportunities and developments that build on the modern developed world's connectivity.

There's hardly any business or government service now that isn't dependent in some way on the Internet.

But where there's opportunity, there's also threat.

That's why C-COR now represents Secure64, provider of the world's most secure DNS, available on two platforms.

In January 2018, Secure64, the leading provider of genuinely Secure DNS servers, announced that a Tier 1 US wireless carrier will deploy NFV-enabled Secure64 DNS servers in their core network as part of their IMS architecture.

**"The US Tier 1 wireless carrier will be deploying our DNS Authority servers as part of an overall IMS implementation,"
Thad Dupper, President & CEO, Secure64, says.**

"Tested widely in the Tier 1's lab, our solution will provide the scalability, security and on demand capacity needed to meet this carrier's expanding core network requirements."

The Secure64 NFV-enabled DNS platform will integrate with an IP Multimedia Subsystem (IMS) solution.

This solution will replace the carrier's legacy circuit switches with IP switches nationwide with DNS as a key component.
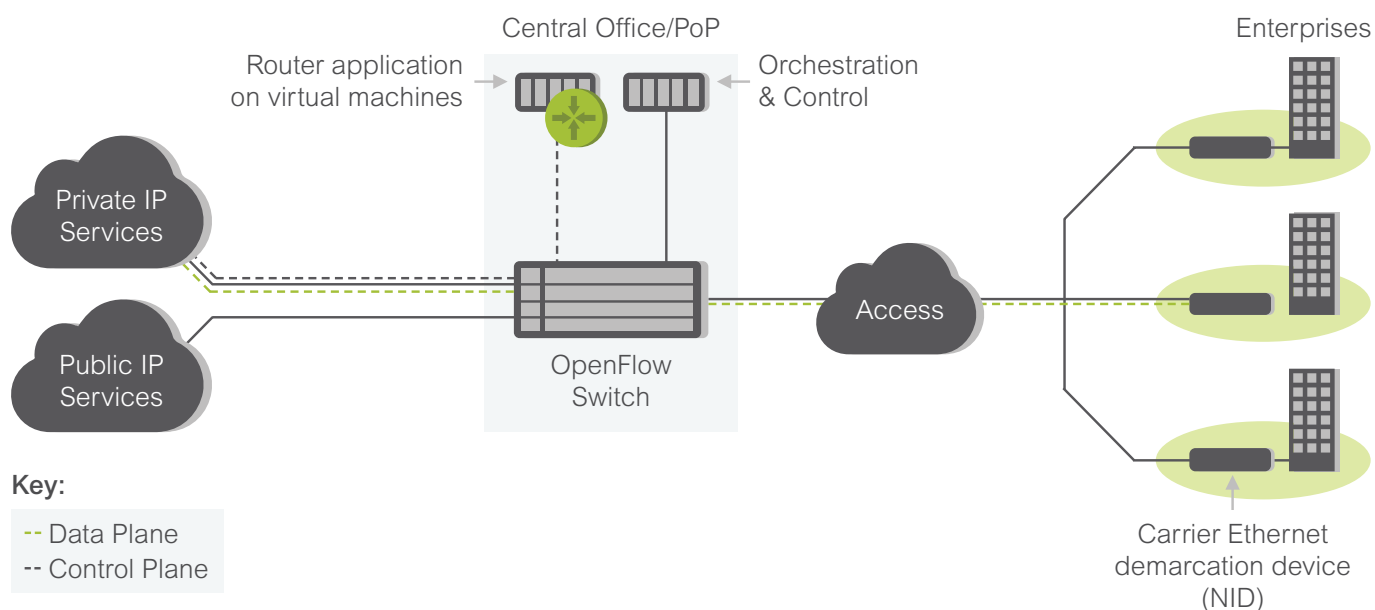
Figure 1: Managed Router Service Using NFV and SDN

A Better Architecture

SDN is introduced to separate the control and data, as shown in Figure 1. The data packets are forwarded by an optimised data plane, while the routing (control plane) function is running in a virtual machine running in a rack mount server.

The combination of SDN and NFV shown in Figure 1 provides an optimum solution:

- It replaces an expensive and dedicated appliance with generic hardware and advanced software.
- It moves the software control plane from an expensive location (in a dedicated platform) to an optimised location (server in a data centre or POP).
- It standardises the control of the data plane, allowing for network and application evolution without the need for upgrades of network devices.

About Secure64 Software Corporation

Secure64 brings trust to the internet through its suite of purpose-built, secure, DNS-based network security products.

They're forging solutions that are self-protecting and immune to malware. Secure64 secures the DNS infrastructures of leading service providers, government agencies and enterprises globally.

Secure64 is a privately held company founded by technology and financial veterans.

It possesses deep technical and global experience in its leadership and staff.

Secure64 is the only DNS solution provider that has authored a secure micro OS, automated the deployment of DNSSEC and built self-protecting DNS servers.

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