



#### WORK AUTHORISATION

Canada  
United Kingdom/European Union  
USA (requires sponsorship)

# Gareth Le Cornu

16 YONGE STREET, SUITE 1607, TORONTO ON, M5E 2A1, CANADA

[glecornu@mac.com](mailto:glecornu@mac.com)

CELL +1 (647) 888-9061

## Experience Summary

I have approximately ten years of experience in the service provider and enterprise networking environments, designing and building highly resilient, scalable and maintainable networks spanning multiple jurisdictions and satisfying a diverse set of requirements.

Current and past projects include the development of a network that supports Internet services including broadband access products. I have been heavily involved in designing and building core IP/MPLS networks (and the core VoIP network used to facilitate the migration of subscribers from the legacy PSTN core to IP-enabled MSANs), the architecture of resilient connectivity to numerous data centres and partner data centres, traffic management, settlement-free BGP peering negotiation and configuration, DSL infrastructure (MSAN) deployment and testing, resilient RADIUS architectures, and MPLS VPN/interconnect service design and deployment and the deployment of IPv6 including core and edge networks and the implementation of transitional gateways. From a project management perspective, I have also been required to manage relationships with suppliers and consultants and adequately plan technical tasks to suit limited timescales.

## Key Skills

- Architecture for resilient service provider core networks and data centres
- Extensive experience with xDSL technologies and ATM to Ethernet broadband network migration
- Extensive IPv4/and IPv6 addressing deployment experience
- Layer 2 protocols, switching and tunnelling including ATM, Ethernet, PoS, PPP for DSL, Serial, STP, VTP, L2TP
- Routing protocols including BGP/MP-BGP, OSPF, IS-IS/MT IS-IS, EIGRP, RIP and redundancy protocols including VRRP and HSRP
- Design and implementation of MPLS architectures including MPLS VPN, EoMPLS, VPLS and MPLS Traffic Engineering
- Network QoS design for core, VoIP, customer VPN and Internet services
- Database and PHP front-end web development - including IPv4/IPv6 address management and circuit provisioning
- Routing and convergence optimisation
- DNS, DHCP, RADIUS
- Cisco Service Control Engine/DPI systems
- Cisco ASA Firewall and Firewall Services Module (FWSM)
- Netflow, Cisco ISC, MRTG/RRD, Cacti, Orion NPM/NCM, TopLayer IDS Balancer, Ericsson NSM, Ixia 400-T tester and IxNetwork software
- Red Hat Linux Enterprise, Ubuntu Server
- Radiator, Cisco ACS and Broadhop RADIUS deployment
- Extensive scripting experience, including PHP, PERL, Unix shell
- Cisco platform experience – ASR9K, Nexus 7K, 10K, 7600/6500, ASR1K, 7200, 7300, ME6500, 4500, 2800, 1800, 800 (DSL), ASA5500, 3750, 3560, 4900, 2650
- Ericsson/Redback platform experience - SE800, SE400
- DDoS automated mitigation system development using PERL, with data from Netflow and via SNMP
- Provisioning automation and management system development using PERL, PHP and MySQL

## Education and Certifications

**CISCO CERTIFIED INTERNETWORKING PROFESSIONAL (CCIP)**  
**CISCO BCMSN (REQUIRED FOR CCNP)**

**2007 (VALID UNTIL 2013)**  
**2010**

**CISCO CERTIFIED NETWORK ASSOCIATE (CCNA)** 2000  
**BSc (Hons) COMPUTING (UPPER SECOND CLASS)** 2002  
Liverpool John Moores University

**ADVANCED LEVEL** 1998  
English Language (B)  
Law (C)  
Economics (C)

**COURSES (NOT EXHAUSTIVE)**  
Cisco BGP, Cisco PIX, Micromuse NetCool, Cisco QoS, Cisco MPLS, Cisco Advanced MPLS, Cisco BCMSN

## Professional Experience

**PRIMUS TELECOMMUNICATIONS CANADA** **OCTOBER 2010 - PRESENT**  
**NETWORK ANALYST**

I recently joined the IP and Transport Networks team at Primus Canada, where I have been working to optimise and expand the network, including the planning and design of Primus' IPv6 rollout, the automation of service provisioning, and the implementation of new core and distribution networks in Toronto to support East and Central Canada services.

**JERSEY TELECOM GROUP LIMITED** **OCTOBER 2006 - APRIL 2010**  
**IP NETWORK ARCHITECT/TECHNICAL PROJECT MANAGER**

Jersey Telecom is the incumbent telecommunications service provider for the island of Jersey, with sister companies in Guernsey and abroad. My role was to design and implement an infrastructure that supported Jersey Telecom's entire IP services portfolio as well as Ethernet access and layer 2 MPLS products. As such, the work that I did often involved extremely new technologies, which I was required to test and integrate into the existing infrastructure.

My projects included the design and implementation of the core IP/MPLS network and overlaying Internet services to support all of Jersey Telecom and Wave Telecom's Internet products, MPLS VPN, layer 2 point-to-point Ethernet, as well as all core voice services migrated from the ageing System X digital PSTN. The network needed to be extremely resilient and have exceptionally low latency, which was achieved with a combination of Cisco hardware and routing technologies such as IS-IS with BFD and NSF.

**DOMINION FIDUCIARY SERVICES GROUP LIMITED** **JUNE 2005 - OCTOBER 2006**  
**NETWORK ADMINISTRATOR**

Dominion is a financial services group, based in Jersey. I was responsible for all aspects of network development and maintenance in Jersey and London, which included the management of the Cisco Call Manager and Unity platforms. During my time at Dominion, my role changed substantially, and I later became a systems developer. Development projects included the corporate Intranet and a Financial Management System, written in VB.NET.

**JERSEY TELECOM** **JUNE 2000 - JULY 2001 (PLACEMENT)**  
**PROJECT ENGINEER** **MAY 2002 - DECEMBER 2004**

My time at Jersey Telecom was spent on projects such as the launch and expansion of xDSL services including ADSL and SHDSL, the migration of normal voice services to an IP architecture, internal LAN and inter-island WAN development and several other IP infrastructure projects.

In my capacity as Project Engineer for the voice/DSL MSAN integration, I was also invited to give demonstrations and presentations regarding the recently installed voice SoftSwitch and its integration into the core IP network to visiting companies including BT, Energis, Thus, China Railways Telecom and GibTel.

I also spent time designing software solutions for internal administrative use including an IPv4 (and later, IPv6) records database, which became the primary reference for all public and private IP addressing throughout the Jersey Telecom group.

## Hobbies and Interests

I enjoy photography and I especially enjoy photographing landscapes, cityscapes and the natural environment. I am currently a member of the Toronto Camera Club. I like to use the graphics editing skills I have acquired through photography to design and develop web sites for friends and small businesses.

## Referees

References can be provided upon request.