

Broadband Technologies and Multimedia Services

16 – 20 November 2015
Gaborone, Botswana



COMMONWEALTH
TELECOMMUNICATIONS
ORGANISATION



Overview

This course provides a comprehensive technical overview of TCP/IP and broadband technologies, along with the practical experience required to configure a host, employ TCP/IP tools, use application services, access TCP/IP-based internetworks and also identifies protocol functions for multimedia applications.

For more information
about this course, or to
register, contact us on:
Tel: +44 (0) 208 600 3800
Fax: +44 (0) 208 600 3819
Email: h.muchando@cto.int

OBJECTIVES

- Explain the basic data transmission concepts.
- Describe on the ISO/OSI (TCP/IP) stack and operation.
- Discuss current broadband technology options.
- Describe how to select the appropriate broadband technology for a given scenario.
- Identify the different applications delivered over broadband networks.

TARGET AUDIENCE

This course is designed for technicians, engineers, customer service and technical staff engaged in broadband services.

COURSE OUTLINE

Basic Building Blocks of Communication Technologies

- Core, transport and access networks
- Types of networks: fixed (or wire-line) and mobile (or wireless) networks
- Circuit-switched and packet-switched networks

Evolution of data communication technologies networks

- Analogue to digital
- Time division multiplexing to Internet Protocol (IP)

Introduction to Internet Protocol

- ISO/OSI and TCP/IP stack and protocols
- IP versions
- Routing and switching
- IP standards

Broadband technologies

- Wireless
- Mobile
- 3G
- UMTS
- HSDPA/HSUPA
- 4G
- LTE
- Fixed

Designing wireline broadband networks

- Access network life cycle
 - Strategy and architecture
 - Planning and design
 - Project and implementation
 - Operation and maintenance

Overview and introduction to Ethernet

- History of Ethernet
- Basic Ethernet operation
- Using Ethernet
 - Carrier/Metro Ethernet
 - MEF

Applications delivered over broadband networks and things to consider

- IP based applications
 - Network security
 - Management
 - CoS

COURSE TRAINER

Anuradha Udunuwara

Anuradha holds a BSc.Eng (Hons) in Electrical and Electronic Engineering from the University of Peradeniya, Sri Lanka and has gained the Chartered Engineer status from the Institution of Engineers, Sri Lanka in 2008. Anuradha also holds professional certifications in MEF Carrier Ethernet Certified Professional (MEF-CECP) and ITILv3 Foundation. Since joining Sri Lanka Telecom as an Engineer in 2003, he has served in various capacities as Engineer / Data Services Maintenance, Engineer/Data Services Networks and Engineer/Metro Ethernet & FTTx Network Planning. His current role at Sri Lanka Telecom is Engineer/Sales-Region, where he is responsible for consulting, advising, architecting, designing and planning technical solutions for Small and Medium Enterprise/Business/Industry (SME/B/I) customers. In addition, he is also involved in xWDM/OTN Backbone Networks, FTTH, Carrier Ethernet Network, Metro Ethernet Network and WiFi implementations. He is a guest lecturer at the Department of Electrical and Electronic Engineering, Faculty of Engineering, University of Peradeniya, Sri Lanka.

Registration Form

Personal Details

Mr/Mrs/Ms/Other _____ First Name _____ Last Name _____
 Job Title _____
 Organisation _____
 Address _____
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Event ID: 7998 06 November 2015

REGISTRATION DEADLINE

3 SIMPLE WAYS TO REGISTER!

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| | Standard Rate | Early Registration by: 02 October 2015 |
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Reference: GB72COU18000208367507
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To help us improve our services to you and your organisation, please tell us more about you and your organisation.

Your role in the organisation

- Strategic/executive
 Planning
 Control
 Operational

Your area of work in the organisation

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 Customer service and care
 Engineering and technical management
 Financial, purchasing and investor relations
 IT/IP management
 Marketing and sales
 Public relations and corporate communications
 Regulatory and legal affairs
 Telecoms network management
 Human resources
 Other

Your organisation type

- Government
 Regulator
 Operator
 Manufacturer
 Other

Your organisation's service areas

- Fixed network/services
 Mobile/wireless network/services
 Satellite network/services
 Internet
 Broadcasting
 Value-added services
 Support
 Other services

Summary Terms and Conditions

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 For CTO cancellations/withdrawals, delegates are entitled to a 100% refund within 60 days of the withdrawal/cancellation.
 Refunds will be made by bank transfer only.

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