

Globeron

CE-003

2-Day Course

**Wireless & Broadband
applications in building and
home environment**



Do you use Broadband & Wireless already ?

Are your Wireless Services Secure ?

What are Broadband applications ?

**Why is the world of business changing
as new business opportunities arise ?**

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CE-003 – 2 Day Course

Wireless & Broadband applications in building and home environment

Day 1

Session A

Wired based Broadband Technologies and Networks

- Overview of the network components for broadband access
- DSL and Cable TV access network planning and design
- Voice and data communications network planning and design

Session B

Broadband Wireless Access Technologies and Networks

- Broadband wireless access and wireless LAN technologies
- Wireless LAN standards
- Broadband wireless access network planning and design

Day 2

Session C

Broadband Access Network Implementation

- Network interconnection with users and public telecommunications service providers
- Vertical and horizontal cabling considerations
- Broadband wireless antenna positioning and interconnection with the access network
- Network security issues for wired broadband access
- Network security issues for wireless broadband access

Session D

Services in a Broadband Network

- IP based voice and data applications for intranets, extranets and internet access
- Video streaming, video-conferencing and video based information services
- Building automation and access security applications
- Case studies of broadband network enabled buildings

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WIRELESS & BROADBAND NETWORKS AND THEIR APPLICATIONS IN THE BUILDINGS OF TODAY

Introduction

In the information age today, there is a growing demand for high speed access to on-line information based services and products delivered through the internet. Companies are embracing new information technologies and using high speed access to the internet to be more efficient and productive, and to stay relevant in the fast moving market place. The buildings of today will therefore have to be equipped with facilities which can attract new tenants and retain existing tenants by offering them a complete range of leading edge information technology solutions and advanced communications services, right at convenience of their door steps.

Whether the tenant is a small-to-medium sized enterprise where the requirements are for simple voice communications, email and web based services, or a large multi-national company with complex voice and data networks, it is possible for property owners to enable their buildings to function as hubs offering a complete suite of communications solutions for voice and data as well as IT products and services that would help both tenants and property managers to remain viable.

This 2-day seminar introduces the various broadband technologies and network systems that are being deployed in the buildings of today to merge the worlds of business and technology and provide users with a complete range of advanced communications services. The topics to be introduced and discussed during this seminar include wire-line broadband access networks, broadband wireless access technologies and networks, free-space optical access technologies and networks and examples of actual implementations. The seminar will also touch on network implementation issues, and discusses some of the typical applications and new applications of these broadband networks.

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This seminar aims to provide participants with an introductory insight to the various broadband network technologies used in buildings for advanced communications services, network implementation issues, and the various applications of such networks.

At the end of the seminar, participants should be able to describe the various components of a broadband access network, identify the various issues of network implementation such as cable routes, points of network interconnection and the physical building requirements for positioning the various network components. Participants should also be able to identify the typical service applications in a broadband network environment and take the first steps towards their implementation.

- Depending on the availability of the equipment also practical implementations will be shown during the presentation where attendees can bring their laptop to connect via the wireless IT infrastructure to experience this broadband connectivity and understand the (high level) security risks as well.
- Equipment that will be used during the presentation:
 - Gateway for the Hospitality market
 - Broadband equipment
 - Indoor Wireless products
 - Outdoor Wireless Products
 - Network equipment like Switches, Routers
 - Laptops (Wireless or Wired clients)

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