narda
satellite networks
an L3 communications company

PROGRAM DESCRIPTION

Course:	Fundamentals of Data Delivery over DVB
Delivery Method:	Instructor-Led
Target Audience:	Engineers, Technicians, Program/Project Managers, Sales Engineers, Systems Engineers and Product Managers seeking to understand the basic concepts in the delivery of data over DVB.
Course Length:	1 Day
Class Size:	up to 15
Description:	This course provides a fundamental, technical understanding of how and why DVB over satellite can and is being used for data delivery. Topics include, but are not limited to:

- Why DVB over Satellite is used for Data Delivery
  - A satellite standard with an inexpensive receiver
- The relationship between the DVB Satellite Standards and the cost of Satellite Bandwidth
  - Modulation and Coding Options
    - Satellite Link
    - QPSK, 8PSK, and TurboCode
    - Bandwidth vs. Power
    - Saturated vs. Unsaturated Transponder Operation
- Transport Stream Structure
  - The PID
- Data Encapsulation
  - Multi Protocol Encapsulation
  - Data Streaming
  - Data Piping

- Bandwidth Allocation
  - Static and Dynamic
  - Address Based Control
- Quality of Service (QOS)
  - Application-Based Control
- Important considerations in choosing an IP Encapsulator
  - Number of simultaneous PIDs that can be handled
  - Bandwidth Management Capabilities
  - Packet Stuffing Option
  - GUI for Management and Configuration
  - QOS reporting capabilities

Course Objectives: This course is designed to enable the participants upon completion to:

1. Understand the reason for using DVB for data
2. Understand the relationship between DVB modulation options and satellite bandwidth costs
3. Understand how data fits into the DVB transport stream through various protocols
4. Understand the function of the IP encapsulator /gateway
5. Understand the important performance specifications of IP encapsulators