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# TMN

## Concepts and Principles

An Introduction to the Principles of Implementing  
Telecommunications Management Networks

Revision 3.0

# TMN Concepts and Principles

## Course Overview

- Section 1: General Network Management Concepts
  - Network Management Concepts
  - Network Management Functional Areas
  - Definitions
  - Network Management Scenario - Diagram
  - Software Architecture Diagram
  - Management Roles
  
- Section 2: The Telecommunications Network
  - Architectural Requirements
  - Functional Architecture
  - Information Architecture
  - Physical Architecture
  - Management Layers
  - Functional Areas
  
- Section 3: ISO Network Management
  - Introduction
  - Network Architecture
  - Information Syntax
  - Information Model
  - Management Service
  - Management Protocol
  - Standard Data Objects

# TMN Concepts and Principles

## Course Overview

- Section 4: Abstract Syntax Notation One (ASN.1)
  - ASN.1 Modules
  - ASN.1 Simple Types
  - ASN.1 Structuring Types
  - ASN.1 Tagged Types
  - ASN.1 References
  - ASN.1 Features
  - Basic Encoding Rules
  
- Section 5: Guidelines for the Definition of Managed Objects
  - GDMO Documents
  - GDMO Templates
    - » MANAGED OBJECT CLASS
    - » PACKAGE
    - » ATTRIBUTE
    - » ACTION
    - » NOTIFICATION
    - » BEHAVIOUR
    - » ATTRIBUTE GROUP
    - » PARAMETER
    - » NAME BINDING
  
  - GDMO Document Conventions

# TMN Concepts and Principles

## Course Overview

- Section 6: Common Mgmt Information Service/Protocol
  - CMIS Agent/Manager Role Services
  - Multiple Object Selection
  - CMIS Service Descriptions
  - CMIP Types for CMIS Support
  
- Section 7: ISO Model Standard Components
  - Standard Notifications
  - Standard Attributes
  - Standard Managed Object Classes
  
- Section 8: ISO Network Management : A Practical View
  - Shared Management Knowledge
  - Managed Object Conformance Statement (MOCS)
  - High Level System Specification Components
  - Software Implementation Components
  
- Section 9: TMN Concepts and Principles Summary

# TMN Concepts and Principles Schedule

- Day One
  - Section 1: General Network Management Concepts
  - Section 2: The Telecommunications Management Network
  - Section 3: ISO Network Management
  
- Day Two
  - Section 4: Abstract Syntax Notation One
  - Section 5: Guidelines for the Definition of Managed Objects
  
- Day Three
  - Section 6: The Common Management Information Protocol/Service
  - Section 7: ISO Model Standard Components
  - Section 8: Network Management: A Practical View
  - Section 9: Course Summary