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OTL553 TELECOMMUNICATION NETWORK MANAGEMENT

DETAILED SYLLABUS

OBJECTIVES:

- To understand the concept of network management standards.
- To design the common management information service element model.
- To understand the various concept of information modelling.
- To analyze the concept of SNMPv1 and SNMPv2 protocol.
- To analyze the concept of examples of network management.

UNIT I FOUNDATIONS

Network management standards—network management model— organization model—information model abstract syntax notation 1 (ASN.1) — encoding structure— macros—functional model. Network management application functional requirements: Configuration management—fault management—performance management—Error correlation technology—security management—accounting management— common management—report management—polity-based management—service level management—management service—community definitions— capturing the requirements— simple and formal approaches—semi formal and formal notations.

UNIT II COMMON MANAGEMENT INFORMATION SERVICE ELEMENT

CMISE model-service definitions-errors-scooping and filtering features- synchronization-functional units- association services- common management information protocol specification.

UNIT III INFORMATION MODELING FOR TMN

Rationale for information modeling—management information model—object-oriented modeling paradigm— structure of management information—managed object class definition—management information base.

UNIT IV SIMPLE NETWORK MANAGEMENT PROTOCOL

SNMPv1: managed networks-SNMP models- organization model-information model-SNMPv2 communication model-functional model-major changes in SNMPv2-structure of

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management information, MIB-SNMPv2 protocol- compatibility with SNMPv1- SNMPv3- architecture- applications-MIB security, remote monitoring-SMI and MIB- RMQN1 and RMQN2.

UNIT V NETWORK MANAGEMENT EXAMPLES

ATM integrated local management interface—ATM MIB—M1— M2—M3— M4— interfaces—ATM digital exchange interface management—digita1 subscriber loop and asymmetric DSL technologies—ADSL configuration management—performance management Network management tools: Network statistics management—network management system—management platform case studies: OPENVIEW— ALMAP.

OUTCOMES:

At the end of the course, students would be able to

- Design and analyze of fault management.
- Analyze the common management information protocol specifications.
- Design and analyze of management information model.
- Design the simple network management protocol.
- Design the various types of network management tools.

TEXT BOOKS:

- 1. Mani Subramanian, "Network Management: Principles and Practice" Pearson Education, Second edition, 2010
- 2. Lakshmi G Raman, "Fundamentals of Telecommunications Network Management", Wiley, 1999

REFERENCES:

- 1. Henry Haojin Wang, "Telecommunication Network Management", Mc- Graw Hill ,1999
- 2. Salah Aidarous & Thomas Plevyak, "Telecommunication Network Management: Technologies and Implementations", Wiley,1997