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**ETS**

# Course Profile

**SNMP**

**ETS320**

**Duration:**

2 days

**Objectives:**

**E**xplain the function of a network management protocol and describe the different approaches available.

**E**xamine the history and development of SNMP.

**P**rovide you with an overview of the Simple Network Management Protocol (SNMP) and how it works.

**E**xplain the features of RMON and SNMPv2.

**E**xplain the concepts of a Management Information Base (MIB) and describe the various MIBs available, both private and public.

**E**xplain the structure of Management Information and how to read definitions.

**D**escribe SNMPv1, v2 and v3

**Who should attend:**

Technical specialists, network administrators, support personnel and managers who need an overview of network management within a TCP/IP environment.

**Prerequisites:**

Internetworking with TCP/IP (ETS308) or a working knowledge of TCP/IP is required.

**Follow-on courses:**

None.

**Course style:**

The course is presented as a mixture of discussion, teaching sessions and demonstrations.



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## **Key contents:**

SNMP v1

SNMP v3

SMI

RMON2

Community Names

Fault Management

Configuration Management

Accounting Management

CMIP/CMOS

Event Handling

SNMP v2

MIBs

RMON1

Traps

ATM ILMI

Security Management

Performance Management

Proxy Agents

TMN

Security



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## Detailed contents:

Introduction

What is Network Management?

The Need for Network Management

Common Approaches to Network Management

- The Propriety Approach
- The Open Approach

What is SNMP?

Function of SNMP

History of SNMP

SNMP Operations

SNMP Protocol

SNMP Messages

Requests and Responses

Traps

Communities

Community Profiles

Proxy Agents

Management Information Base

Management Information Base

Objects

MIB Structure

Standard MIB

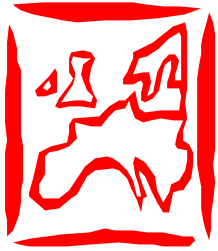
Defining Managed Objects

The MIB

Accessing an Object

MIB Definition

Private MIBs



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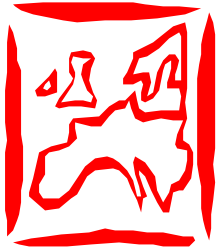
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## **Detailed Contents continued:**

Structure of Management Information	Objects Object Definition ASN1 and BER Tables SMIv2
SNMP Version 1 Messages	Message Formats Variable Bindings GetRequest and GetResponse SetRequest and GetResponse Tables Sequential Order GetNextRequest and GetResponse Presentation Syntax
SNMP Version 2 and Version 3	SNMP V2 PDU SNMP V2 Trap GetbulkRequest InformRequest Codes & Wrappers SNMP V3 Message SNMP V2c Message
Using SNMP	Managing the Network ATM ILMI RMON Security Issues Hosts and Applications SNMP vs CMIP vs TMN



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This information is provided in good faith to represent the typical contents of the course material. The course will change as required to keep pace with technology changes and learning styles, as a result the exact contents may differ from those specified here. The benefit of instructor led training is that it will evolve to suit the needs of any specific class, therefore no warranty is given that any specific course will cover the subjects outlined here to any implied level of detail.

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