	Introduction to SNMP and SNMPv3	Advanced SNMPv3	Developing an SNMP Agent	Developing and SNMP Management Application
Who should attend	Network Managers, Network Management Operators, Software and Hardware Manufacturers who need to comply with standard management protocols, Security Officers who need to integrate SNMP management into secured environments, Communication System Designers, Product Managers, Project Managers, Network engineers, developers		Software and Hardware Manufacturers who need to comply with standard management protocols, Network engineers, SNMP developers	
Content	• Why SNMP? • Introduction to SNMPv1 • Evolution of SNMP • Introduction to MIBs definition • Introduction to SNMPv3 • Applications • Demonstration • Reference documents	• Security threads in SNMP • Architecture of an SNMPv3 entity • Authentication in SNMPv3: User Security Model (1/2) • Encryption in SNMPv3: User Security Model (2/2) • Authorization: View-Based Access Control • SNMPv3 Implementations • Demonstration • Reference documents	• MIB writing in ASN.1 • The EMANATE paradigm • The EMANATE Sub Agent Development Kit • Demonstration • Exercises on EMANATE SADK • Case study and exercises • Focus on your project: MIB and application design	• BRASS server • BRASS Management Application Development Kit • Understanding ASN.1 MIB definitions • Demonstration • Exercises on BRASS • Case study and exercises • Focus on your project: MIB and application design
The attendee will learn	• what is SNMP • how to design an SNMP capable solution • identify the components of a state-of-the-art management solution • win interoperability	• the architecture of an SNMPv3 entity • how SNMPv3 addresses the current security needs • how to design a secure management network • how to choose SNMP capable hard- and software	• will be able to understand ASN.1 MIB definitions • will be able to install and use the EMANATE master agent and subagents • will be able to use the SNMP utilities • will know how to design an SNMP capable product • will be able to write their own SNMP subagents • will be able to configure SNMP components	• will be able to install and use the BRASS server and utilities • will be able to understand ASN.1 MIB definitions • will know how to design an SNMP capable product • will be able to write their own SNMP management applications • will be able to configure SNMP components
The attendee will leave with	• Course hand-outs • Product information • Real world application examples and experience		• Course hands-out • Product information • Real world application examples • Sample configurations.	
Duration	1 day	1 day	2 days	2 days
Prerequisites	Good understanding of TCP/IP Networks	Good understanding of SNMP Management	Good understanding of SNMP management Good C programming skills Good knowledge of the operating system used for the training classes (Linux)	
Practical information	• Languages: Course: English, hand-outs in English • Maximum number of attendees: five • Location: At AETHIS premises or in your offices			