SNMP / Internet View

Aiko Pras

CTIT
University of Twente
the Netherlands
email: pras@ctit.utwente.nl
http://www.ctit.utwente.nl/~pras
Status of SNMP management

• It is impossible to manage networks without SNMP

• SNMP will still be important in 10 years from now

• SNMP has limitations, however ...
Challenge 1: Secure management

• Big networks should be managed in a secure way
  • The current version of SNMP is not secure
    • The IETF missed the opportunity to add security with SNMPv2
      • With SNMPv3 security finally arrives
  • SNMPv3 will be supported by many vendors ...
Challenge 2: Distribution of management functionality

• The current version of SNMP does not scale well

• The distributed management group (disman) will solve this problem
Challenge 3: Service management

• SNMP is currently used for element and network management

• Element management will be based on web technology (and not SNMP)

  • SNMP will be extended with service management facilities

• Customer Network Management (CNM) will be based on web technology too
Challenge 4: Bureaucracy

• Many people contribute to the IETF

• The organization behind the IETF can not handle the situation anymore

• The biggest risks for SNMP is slow progression of standards