Web and Directory Enabled Networks
Are they replacing SNMP and TMN?

IETF/IRTF perspective

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Status

• Widely deployed: SNMP & MIBs
  • Just ready: SNMPv3
  • Current work in IETF: DISMAN
• New research in IRTF: NMRG & SMRG
Status - DISMAN

• Script MIB
• Schedule MIB
• Event MIB
• Expression MIB
• Notification Log MIB
• Remote Operations MIB
Future - I

Element management:
  • Web based
  • SNMP

Network management:
  • SNMP
  • Dedicated protocols
Future - II

Service management

- Web based (customer interfacing)
- SNMP (between domains)
- XML (between domains)
  - Directory based
  - Dedicated protocols
Some thoughts ...

The real problem is not:

• how to transfer management information
• what programming language to use

But:

• What management information do we have (MIB)