



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)