Joel Gyllenskog

- Chairman Printer Working Group

- Hewlett-Packard Company
- Network Printer Division
- Boise, Idaho

- ftp server: ftp-boi.external.hp.com
- sub-directory: /pub/snmpmib
- to get email: pmi-request@hpbs907.boi.hp.com

Printers that currently use SNMP

- Hewlett-Packard
  - LaserJet III Si,
  - LaserJet 4, LaserJet 4Si, LaserJet 4 Plus
  - PaintJet 300XL, DeskJet 1200C
- Lexmark 4039 and 4039 Plus
- QMS, various
- IBM 3930
- Talaris T1794, T2090 and T3290

Printer Working Group History

- Announcement at Spring Comdex 1993

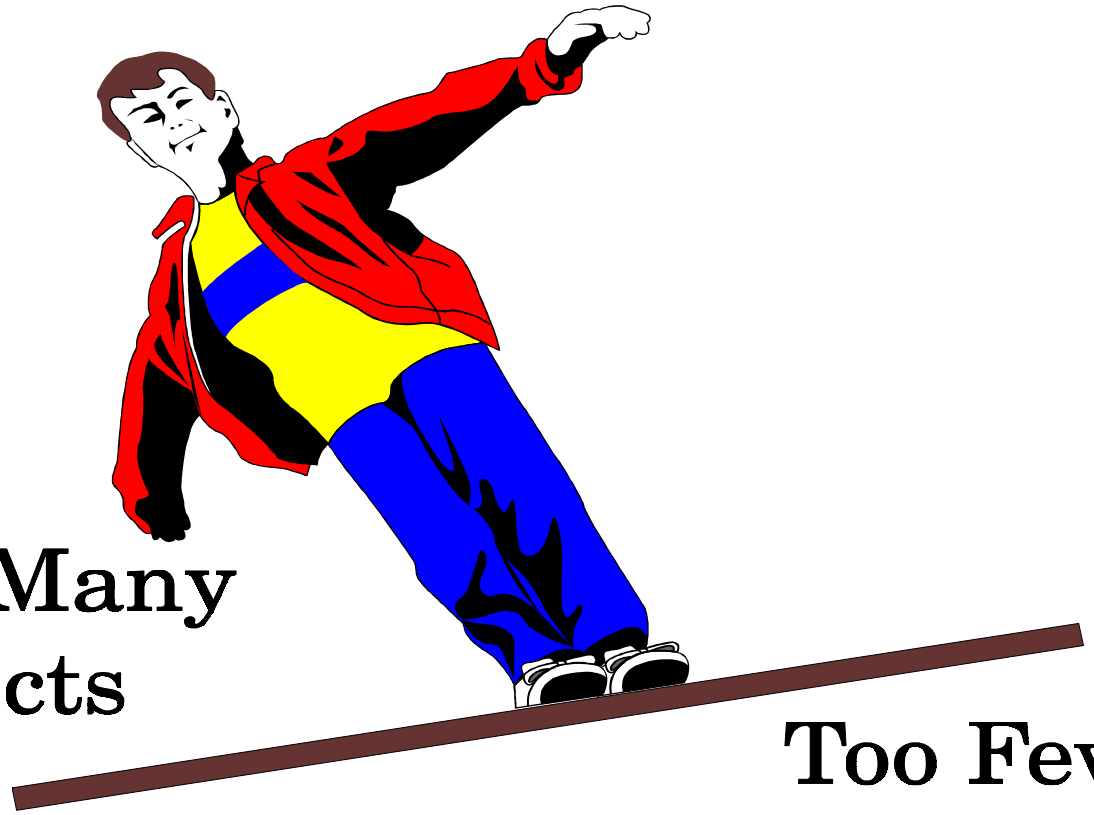
  HP Microsoft IBM Novell
- DMTF Conference Call August 1993
- Monthly meetings beginning September 1993
- Objects developed independent of protocol
  - SNMP Format
  - DMTF Format

What Are We Trying to Accomplish?

Objectives in defining Objects

- Useful over a broad range of printers
- Not manufacturer specific
- Balance between the needs of high end printers and the resources available for low end printers
- Methods for growing over time

How Many Objects Is Enough?



Too Many Objects

Too Few Objects

Printer Working Group -- Printer Vendors

Hewlett-Packard
Digital Equipment
IBM Pennant Systems
Texas Instruments
Fujitsu
Tektronix
Printronix
NEC Technologies
Dataproducts
Lexmark
QMS
Xerox
Unisys
Canon
Ricoh
Okidata
Brother
Compaq

Printer Working Group -- Software

Adobe

Microsoft

IBM

Hewlett-Packard

Intel

Carnegie Mellon University

Dover Beach Consulting

Underscore

FTP Software

SNMP Research

Genoa

BGS Systems

SCO

Jadtech

Printer Working Group -- Hardware

Intel

Digital Products

Cisco

SUN

Emulex

Extended Systems

Farpoint Communications

Pacific Data Products

Other groups trying to standardize printer management

- ISO 10175 DPA Document Printing Application
- POSIX Portable Operating System Interface System Administration Interface/Printing
- COSE in the Unix environment
- DSIS Distributed Support Information Standards Group

Scope of Printer MIB

- **Printer MIB**
  - ➔**74 accessible objects in 8 mandatory groups**
  - ➔**58 accessible objects in 10 optional groups**
- **Host Resources MIB**
  - ➔**23 accessible objects in 1 mandatory group**
  - ➔**32 accessible objects in 5 optional groups**
- **Rich enough to allow management without extensions**
- **Requires MIB II and Host Resource MIB**

Progress of Printer MIB

- November 1993--Printer BOF at 28th IETF plenary in Houston
- January 1994--Printer Working Group is chartered by IETF
- August 1994--Final Internet Draft posted
- August 1994--Printer MIB passed to IESG for review

Who Will Benefit From the Standard Printer MIB?

- People who manage networks
- People who manage networked printers
- People who use networked printers
- People who write software for networks