

Green Usage Monitoring Information Base

<http://www.ietf.org/id/draft-suganuma-greenmib-03.txt>

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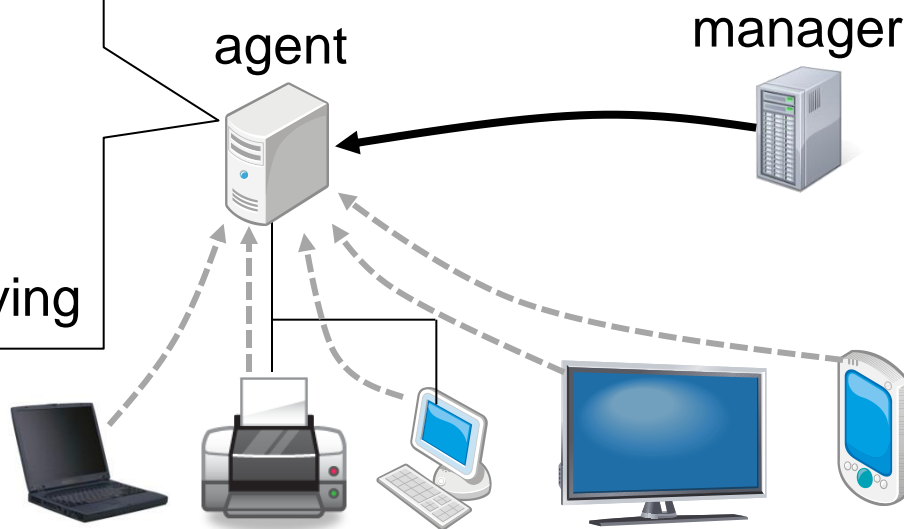
IETF 89 Meeting, London 2014

Only 6 MOs

- Feature

- **Simple** & **easy** to use / Generic MIB

- Desktop : power on
 - Printer : power off
 - Laptop : sleep
 - TV : power off
 - Mobile : power saving



- Aim

- Experimental MIB

- Used widely for various experiments
 - Lessons learned from usage

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Summary of Major Changes in 03

- Introduced “deviceMonitoring” (direct monitoring of device status) into “GumStatusDetectionMethod”

– GumStatusDetectionMethod

- reserved
- arpSensing (<- reported in IETF 86 Meeting)
- neighborDiscoverySensing
- icmpEchoProbing (<- reported in IETF 86 Meeting)
- switchMonitoring
- deviceMonitoring (<- reported in IETF 88 Meeting)

GumStatusDetectionMethod

- Estimate power status of device based on...
 - reserved : reserved (not used)
 - arpSensing : ARP packet
 - neighborDiscoverySensing : neighbor discovery packets
 - icmpEchoProbing : ICMP echo packets
 - switchMonitoring : packets from switch
 - deviceMonitoring : device status (CPU load, memory usage, etc.)

Next step

- Discussion in...
 - estimation of device status based on switch monitoring
 - parameters of "history of status" to detect wasted running
 - link into Framework and other MIBs
- Welcome any comments or suggestions