

Sample List

Possible Network Management Elements for Printers

Element	Values-Type	MIB	Comment
Ethernet Setup			
Ethernet Configuration	auto, 10 half duplex, 10 full duplex, 100 half duplex, 100 full duplex, 1000		
Enable TCP/IP	Yes/no		
Enable Auto IPv4 Config	Yes/no		
Enable DHCP/BOOTP	Yes/no		
Enable PING/ARP	Yes/no		
Enable AUTO IP	Yes/no		
IPv4 Address	IPv4 Address		
IPv4 Subnet Mask	IPv4 Address mask		
IPv4 Default Router	IPv4 Address		
DNS Host Name	IPv4 Address		
Enable Domain Name Automatic Acquisition	Yes/no		
Domain Name	name		
Enable DNS Server Automatic Acquisition	Yes/no		
DNS Server IP address	multiple IPv4 addresses		
Enable Dynamic DNS	Yes/no		
Enable IPv6	Yes/no		
IPv6 Link Local Address	IPv6 Address		
Enable Automatic Global Address	Yes/no		
Enable DHCP V6	Yes/no		
IPv6 Global Address	IPv6 Address		
IPv6 Gateway Address	IPv6 Address		
Enable LPD	Yes/no		
LPD Queue Name	string		
Enable FTP	Yes/no		
FTP Port Number	decimal number		
Enable RAW Port	Yes/no		
RAW Port Number	decimal number		
Enable RAW Port Bidirectional	Yes/no		
Enable SLP	Yes/no		
Enable Bonjour	Yes/no		

Bonjour Printer Name	name		
Bonjour Priority Printing Protocol (Multiple protocols, with priorities)			
Bonjour location			
802.11 settings			
SSID	string		
Password	string		
channel(s)	Decimal number(s)		
frequency	Decimal number(s)		
IPSEC			
Enable IP Sec (Lots of IP Sec elements, but perhaps not appropriate for CWMP)	Yes/no		
IKE Key Lifetime			
IKE Diffie-Hellman	Groups		
IKE Diffie-Hellman (Options/ Encryption Algorithm, Hash Algorithm)			
Security Association (Key Lifetime)			
Security Association (Options/ Security Protocol, Encryption Algorithm for ESP, Authentication Algorithm for ESP, Authentication Algorithm for AH)			
Peer's Address (entry/Address, Enable Perfect Forward Security, PreShared Key, Encapsulation Mode)			
Printing Protocols			
Enable WSD Print Mode	Yes/no		
WSD Printer Name	name		
WSD Printer Location	string		
WSD Printer Information	string		
Enable IPP	Yes/no		
IPP Printer Name	name		
IPP Printer Location	string		
Accept IPP Jobs	Yes/no		
IPP Printer Make & Model	string		
IPP Printer URLs Supported	URIs		

IPP Authentication Scheme			
IPP Password	string		
IPP Realm			
SNMP Related			
Enable SNMPv1/v2C	Yes/no		
Enable SNMPv3	Yes/no		
SNMP UDP Port	Decimal number		
SNMPv1/SNMPv2C GET Community Name	string		
SNMPv1/SNMPv2C GET & SET Community Name	string		
SNMPv3 Context Name	string		
SNMPv3 Enable Discovery	Yes/no		
SNMPv3 Discovery User Name	string		
SNMPv3 Security Level	No Auth/No Priv		
SNMPv3 Access Right	Read Only - restricted objects		
SNMPv3 Read Only Account	string		
SNMPv3 Read Only Account User Name	name		
SNMPv3 Read Only Account Authentication Password	string		
SNMPv3 Read Only Account Privacy Password	string		
SNMPv3 Read Only Account Security Level	No Auth/No Priv		
SNMPv3Read/Write Account	string		
SNMPv3 Read/Write Account User Name	name		
SNMPv3 Read/Write Account Authentication Password	string		
SNMPv3 Read/Write Account Privacy Password	string		
SNMPv3 Read/Write Account Security Level	No Auth/No Priv		
Enable SNMP Traps	Yes/no		
Enable SNMP Authentication Failure Traps	Yes/no		
SNMP Trap Community Name 1	string		
SNMP Trap IP Address 1	IP V4 Address		
SNMP Trap UDP Port Number 1	number		
SNMP Trap Community Name 2	string		
SNMP Trap IP Address 2	IP V4 Address		

SNMP Trap UDP Port Number 2	number		
Email Related			
Enable Email Notification on Error	Yes/no		
SMTP Notification From Address:	Email address		
SMTP Notification To Address:	Email address		
SMTP Notification Subject:	string		
Delay Enable Email Notification on Error (n minutes)	Decimal number		
Test Enable Email Notification on Error	Yes/no		
SMTP MAIL SERVER Address	IP Address		
SMTP MAIL SERVER Port Number	number		
SMTP MAIL SERVER Connection Timeout	Number (sec)		
SMTP Authentication Account	string		
SMTP Authentication Password	string		
SMTP Authentication Realm			
Incoming Mail Server Type	POP3, IMAP4, etc		
Incoming Mail Server ID			
Port Number	number		
Server Timeouts	Number (sec)		
Disposition of retrieved message	remove/remove after / leave		
connection encryption type			
User Name	name		
Password	string		
Authentication type	login to SNMP before sending/separate log on		
Date-Time related			
Set Date & Time	Date-time		
Enable SNTP	Yes/no		
SNTP Server Address	IP Address		
SNTP Port	number		
Clock Synchronize Frequency	number		
Time Zone UTC	number		
Last SNTP Time	Date-time		
Implement Daylight Savings Time	Yes/no		

SSL/TLS settings			
Create a self-signed Certificate	action		
Request a Certificate	action		
Install a Certificate	action		
Set encryption strength	action		
Remove Certificate	action		
SSL/TLS Mode			
IEEE 802.1X			
IEEE 802.1X enable	Yes/no		
EAP Method	EAP-MD5, EAP-TLS, EAP-TTLS, PEAP, Server Specified		
User ID	string		
Password ()	string		
TTLS Anonymous Name	string		
TTLS Authentication Type	PAP, MS-CHAP, MS-CHAPv2		
Server ID	string		
Server CA Certificate			
Server Certificate Check	Validity, CA Confidence, Server ID		
Client Certificate			
Send Client Certificate	Yes/no		
Encryption Strength	Low, Medium, High		
Authentication Process Time Limit	seconds, 0 = disable		
Port Authentication			
Resident applications,			
List			
Fonts			
List			
Other Resources			
List			

IDS health attributes			
CertificationState	OctetArray)		
ConfigurationState	OctetArray)		
DefaultPasswordEnabled	Boolean		
credentials are set to the factory defaults. (0 = no default passwords)			
FirewallSetting	OctetArray)		
FirmwareName	String		
HCD Health Assessment Attribute Name	Data Type		
FirmwarePatches	String		
FirmwareStringVersion	String		
FirmwareVersion	OctetArray)		
ForwardingEnabled	Boolean		
MachineTypeMode	String		
PSTNFaxEnabled	Boolean		
ResidentApplicationName	String		
ResidentApplicationPatches	String		
ResidentApplicationStringVersion	String		
ResidentApplicationVersion	OctetArray)		
HCD Health Assessment Attribute Name	Data Type		
TimeSource	String		
UserApplicationEnabled	Boolean		
UserApplicationPersistenceEnabled	Boolean		
UserApplicationName	String		
UserApplicationPatches	String		
UserApplicationStringVersion	String		
UserApplicationVersion	OctetArray)		
VendorName	String		
VendorSMICode	Integer		
AttributesNaturalLanguage	String		

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