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 | DataType |  |  |
| 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  | DataType |  |  |
| TimeSource  | String |  |  |
| UserApplicationEnabled  | Boolean |  |  |
| UserApplicationPersistenceEnabled | Boolean |  |  |
| UserApplicationName  | String |  |  |
| UserApplicationPatches  | String |  |  |
| UserApplicationStringVersion  | String |  |  |
| UserApplicationVersion  | OctetArray) |  |  |
| VendorName  | String |  |  |
| VendorSMICode  | Integer |  |  |
| AttributesNaturalLanguage  | String |  |  |

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