



UPS NETWORK ADAPTER CONFIGURATION

Effective:
12/17/10

Revision:
A

Configuring a BestLink Network Adapter

Overview

These are instructions for configuring the Powerware® BestLink™ SNMP/WEB Adapter to communicate between an Uninterruptible Power Supply (UPS) and a network.

- 1) Connect the Adapter to the host computer.
- 2) Open a Serial session.
- 3) Login to the Configuration Utility.
- 4) Set the IP address and Gateway.
- 5) Exit the Configuration Utility.
- 6) Login and set the Write Access.
- 7) Modify the parameters to public and Read Only.

Details

Items necessary:

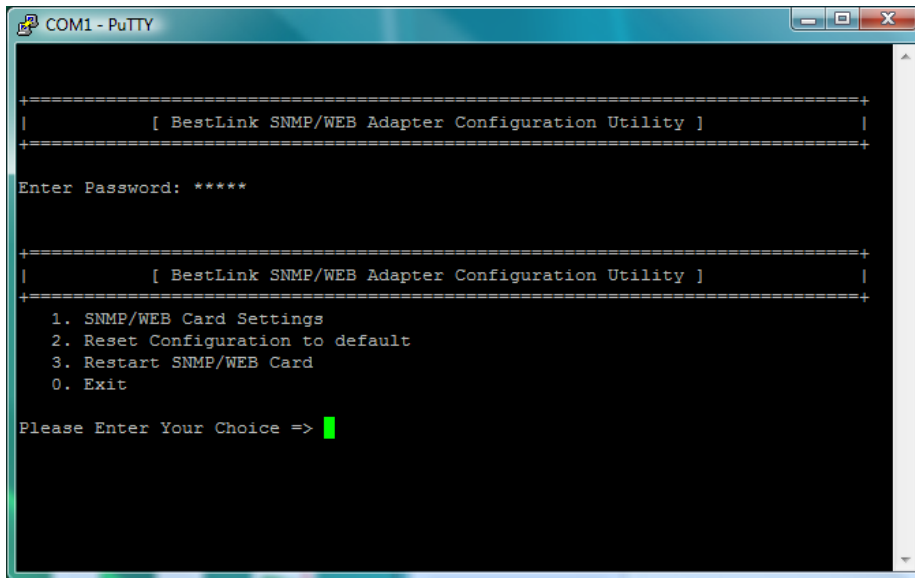
- BestLink SNMP/WEB Adapter
 - Power cable
 - Serial cable (DB-9 to RJ45) marked PC
- 1) Connect the serial cable marked 'PC' to the COM port on the rear of the host computer and the other end (RJ45) to the Adapter in the port marked 'PC'. Connect the power adapter.
 - 2) Determine the COM port being used for the connection on the host computer (Control Panel>System>Device Manager>Ports). Open a terminal emulator application (e.g., PuTTY). Verify the serial options are set to the proper COM port and the Flow Control is set to *None*. Open a Serial session.

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UPS NETWORK ADAPTER CONFIGURATION

- 3) Login to the Configuration Utility. The default password is admin.



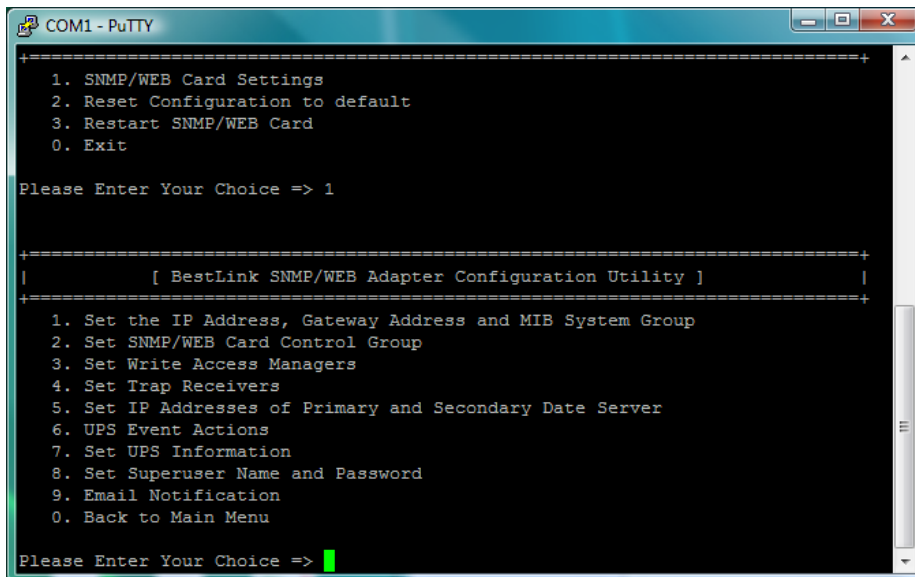
```
COM1 - PuTTY
-----+-----
| [ BestLink SNMP/WEB Adapter Configuration Utility ] |
-----+-----
Enter Password: *****

-----+-----
| [ BestLink SNMP/WEB Adapter Configuration Utility ] |
-----+-----
1. SNMP/WEB Card Settings
2. Reset Configuration to default
3. Restart SNMP/WEB Card
0. Exit

Please Enter Your Choice => █
```

Press [1] and [Enter].

- 4) Set the IP Address, Gateway Address.



```
COM1 - PuTTY
-----+-----
1. SNMP/WEB Card Settings
2. Reset Configuration to default
3. Restart SNMP/WEB Card
0. Exit

Please Enter Your Choice => 1

-----+-----
| [ BestLink SNMP/WEB Adapter Configuration Utility ] |
-----+-----
1. Set the IP Address, Gateway Address and MIB System Group
2. Set SNMP/WEB Card Control Group
3. Set Write Access Managers
4. Set Trap Receivers
5. Set IP Addresses of Primary and Secondary Date Server
6. UPS Event Actions
7. Set UPS Information
8. Set Superuser Name and Password
9. Email Notification
0. Back to Main Menu

Please Enter Your Choice => █
```

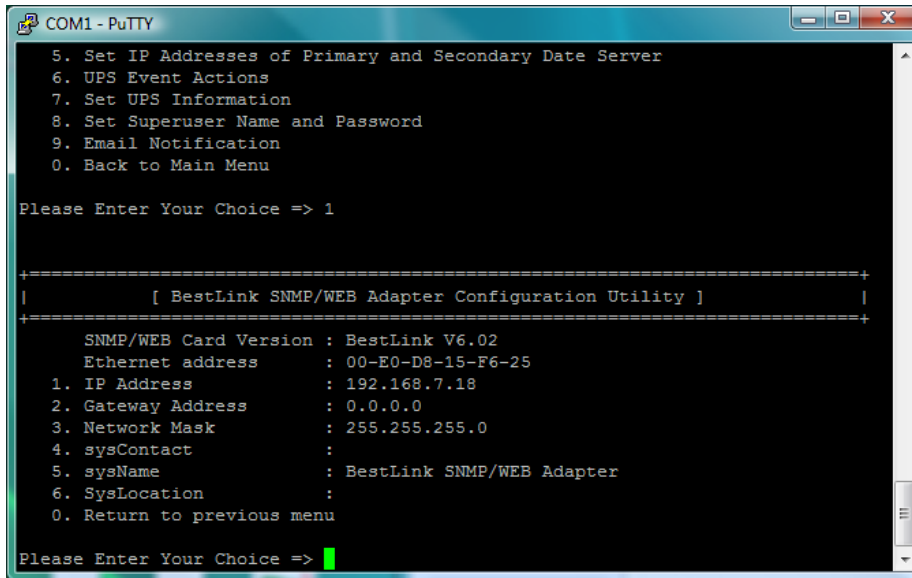
Press [1] and [Enter].

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UPS NETWORK ADAPTER CONFIGURATION

Enter the IP address and Gateway of the host computer.



```
COM1 - PuTTY
5. Set IP Addresses of Primary and Secondary Date Server
6. UPS Event Actions
7. Set UPS Information
8. Set Superuser Name and Password
9. Email Notification
0. Back to Main Menu

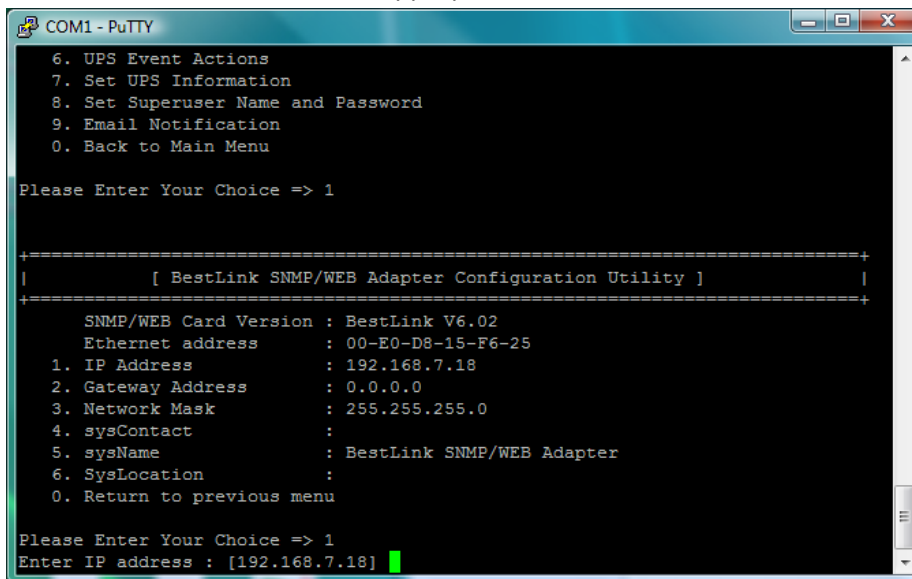
Please Enter Your Choice => 1

=====+
| [ BestLink SNMP/WEB Adapter Configuration Utility ] |
=====+

SNMP/WEB Card Version : BestLink V6.02
Ethernet address      : 00-E0-D8-15-F6-25
1. IP Address         : 192.168.7.18
2. Gateway Address    : 0.0.0.0
3. Network Mask       : 255.255.255.0
4. sysContact         :
5. sysName            : BestLink SNMP/WEB Adapter
6. SysLocation        :
0. Return to previous menu

Please Enter Your Choice => █
```

Press [1] and [Enter]. Enter the appropriate IP address for the location.



```
COM1 - PuTTY
6. UPS Event Actions
7. Set UPS Information
8. Set Superuser Name and Password
9. Email Notification
0. Back to Main Menu

Please Enter Your Choice => 1

=====+
| [ BestLink SNMP/WEB Adapter Configuration Utility ] |
=====+

SNMP/WEB Card Version : BestLink V6.02
Ethernet address      : 00-E0-D8-15-F6-25
1. IP Address         : 192.168.7.18
2. Gateway Address    : 0.0.0.0
3. Network Mask       : 255.255.255.0
4. sysContact         :
5. sysName            : BestLink SNMP/WEB Adapter
6. SysLocation        :
0. Return to previous menu

Please Enter Your Choice => 1
Enter IP address : [192.168.7.18] █
```

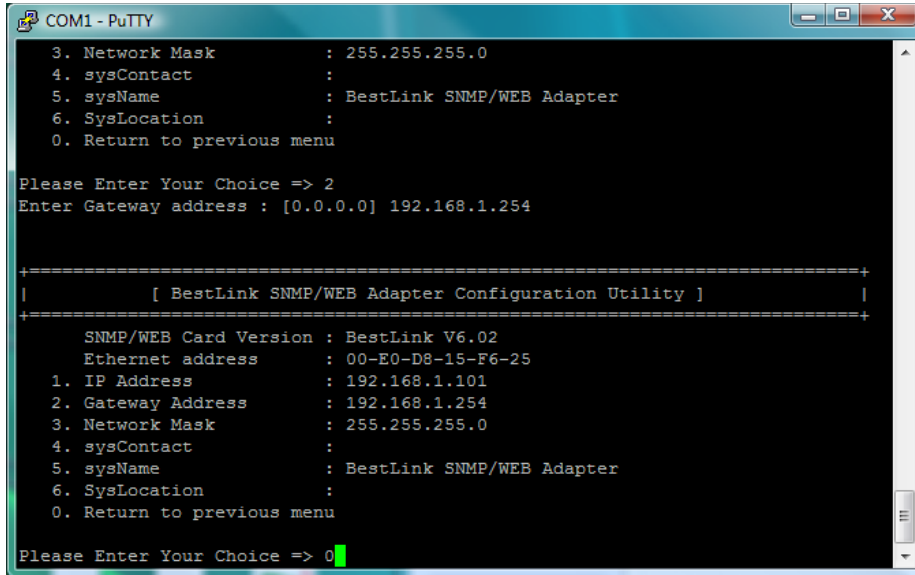
The default IP address of the Adapter is 192.168.7.18.

Press [2] and [Enter].

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```
COM1 - PuTTY
3. Network Mask      : 255.255.255.0
4. sysContact       :
5. sysName          : BestLink SNMP/WEB Adapter
6. SysLocation      :
0. Return to previous menu

Please Enter Your Choice => 2
Enter Gateway address : [0.0.0.0] 192.168.1.254

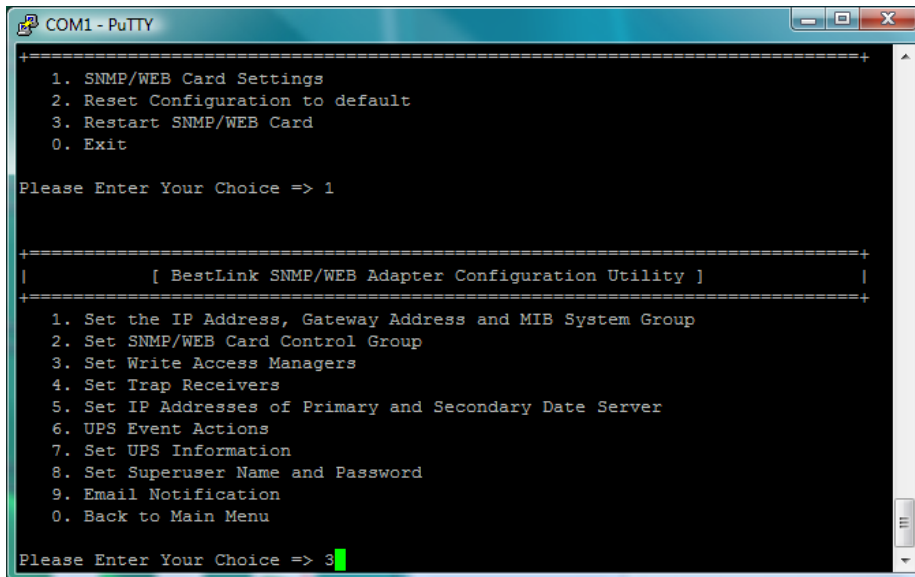
-----+-----
| [ BestLink SNMP/WEB Adapter Configuration Utility ] |
-----+-----

SNMP/WEB Card Version : BestLink V6.02
Ethernet address      : 00-E0-D8-15-F6-25
1. IP Address         : 192.168.1.101
2. Gateway Address    : 192.168.1.254
3. Network Mask       : 255.255.255.0
4. sysContact         :
5. sysName            : BestLink SNMP/WEB Adapter
6. SysLocation        :
0. Return to previous menu

Please Enter Your Choice => 0
```

Enter the appropriate gateway address for the location.

- 5) Exit completely out of the Configuration Utility (by pressing [0] and [Enter] repeatedly).
- 6) Re-login and set the Write Access.



```
COM1 - PuTTY

-----+-----
| [ BestLink SNMP/WEB Adapter Configuration Utility ] |
-----+-----

1. SNMP/WEB Card Settings
2. Reset Configuration to default
3. Restart SNMP/WEB Card
0. Exit

Please Enter Your Choice => 1

-----+-----
| [ BestLink SNMP/WEB Adapter Configuration Utility ] |
-----+-----

1. Set the IP Address, Gateway Address and MIB System Group
2. Set SNMP/WEB Card Control Group
3. Set Write Access Managers
4. Set Trap Receivers
5. Set IP Addresses of Primary and Secondary Date Server
6. UPS Event Actions
7. Set UPS Information
8. Set Superuser Name and Password
9. Email Notification
0. Back to Main Menu

Please Enter Your Choice => 3
```

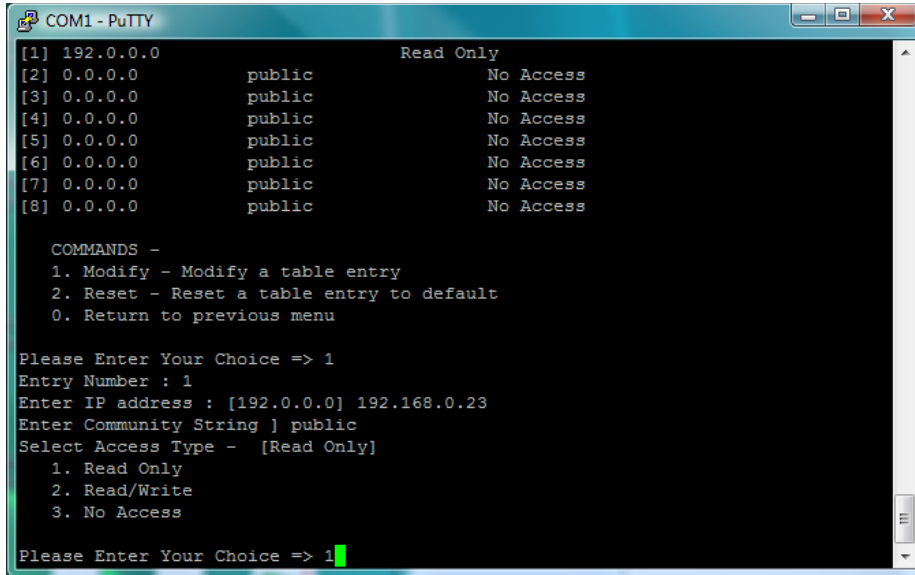
Press [3] and [Enter].

- 7) Modify the existing parameters to conform to the local conditions.

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UPS NETWORK ADAPTER CONFIGURATION



```
COM1 - PuTTY
[1] 192.0.0.0          Read Only
[2] 0.0.0.0          public      No Access
[3] 0.0.0.0          public      No Access
[4] 0.0.0.0          public      No Access
[5] 0.0.0.0          public      No Access
[6] 0.0.0.0          public      No Access
[7] 0.0.0.0          public      No Access
[8] 0.0.0.0          public      No Access

COMMANDS -
1. Modify - Modify a table entry
2. Reset - Reset a table entry to default
0. Return to previous menu

Please Enter Your Choice => 1
Entry Number : 1
Enter IP address : [192.0.0.0] 192.168.0.23
Enter Community String ] public
Select Access Type - [Read Only]
1. Read Only
2. Read/Write
3. No Access

Please Enter Your Choice => 1
```

Set the IP address to the host computer, the community string to public and the access type to Read Only.

Repeat for every computer that will have access to the UPS.

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UPS NETWORK ADAPTER CONFIGURATION

Point Definitions

Ident Group

! 1.3.6.1.4.1.2947.1.1.1.0" ! upsIdentUpsName.0

SYNTAX DisplayString (SIZE (0..19))

DESCRIPTION

"An ID string identifying the Family of UPS."

! 1.3.6.1.4.1.2947.1.1.2.0" ! upsIdentModel.0

SYNTAX DisplayString (SIZE (0..29))

DESCRIPTION

"The UPS model name (example: 'FE500VA')."

! 1.3.6.1.4.1.2947.1.1.3.0" ! upsIdentVARating.0

SYNTAX DisplayString

DESCRIPTION

"The capacity rating of the UPS expressed in VoltAmperes(VA)."

AI_1 "1.3.6.1.4.1.2947.1.1.4.0" ! upsIdentUpsType.0

SYNTAX INTEGER {

standby(1),

online(2),

offline(3),

lineInterative(4),

3PhaseDC(5),

3PhaseLI(6),

hybrid(7)

}

DESCRIPTION

"Type of UPS."

! 1.3.6.1.4.1.2947.1.1.5.0" ! upsIdentUpsSerialNumber.0

SYNTAX DisplayString

DESCRIPTION

"A unique identification number provided by the factory."

! 1.3.6.1.4.1.2947.1.1.7.0" ! upsIdentFirmwareRevision.0

SYNTAX DisplayString (SIZE(0..19))

DESCRIPTION

"The firmware revision of the UPS."

! 1.3.6.1.4.1.2947.1.1.8.0" ! upsIdentInstallationDate.0

SYNTAX DisplayString (SIZE(6..10))

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UPS NETWORK ADAPTER CONFIGURATION

DESCRIPTION

"The date when the UPS was installed in mm/dd/yyyy format."

Battery Group

DI_2 "1.3.6.1.4.1.2947.1.2.1.0" ! upsBatteryStatus.0

SYNTAX INTEGER {
normal(1),
upsOnBattery(2)

DESCRIPTION

"The status of the inverter."

AI_2 "1.3.6.1.4.1.2947.1.2.2.0" ! upsBatteryTimeOnBattery.0

SYNTAX INTEGER

DESCRIPTION

"The elapsed time in seconds since the UPS has switched to battery power."

AI_3 "1.3.6.1.4.1.2947.1.2.3.0" ! upsBatteryRuntimeRemaining.0

SYNTAX INTEGER

DESCRIPTION

"The remaining time in minutes that the UPS will be able to run on battery power."

AI_4 "1.3.6.1.4.1.2947.1.2.4.0" ! upsBatteryVoltage.0

SYNTAX INTEGER

DESCRIPTION

"The UPS battery voltage expressed in 1/10 VDC."

AI_5 "1.3.6.1.4.1.2947.1.2.5.0" ! upsBatteryCurrent.0

SYNTAX INTEGER

DESCRIPTION

"The battery current expressed in 1/10 VDC."

AI_6 "1.3.6.1.4.1.2947.1.2.6.0" ! upsBatteryTemperature.0

SYNTAX INTEGER

DESCRIPTION

"The internal UPS temperature expressed in 1/10 degree C."

! 1.3.6.1.4.1.2947.1.2.7.0" ! upsBatteryLastReplaceDate.0

SYNTAX DisplayString (SIZE(6..10))

DESCRIPTION

"The date when the UPS system's batteries were last replaced."

AI_7 "1.3.6.1.4.1.2947.1.2.8.0" ! upsBatteryCellVoltage.0

SYNTAX INTEGER

DESCRIPTION

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UPS NETWORK ADAPTER CONFIGURATION

"The UPS battery cell voltage expressed in 1/100 VDC."

Input Group

AI_8 "1.3.6.1.4.1.2947.1.3.2.0" ! upsInputFrequency.0

SYNTAX INTEGER

DESCRIPTION

"The utility line frequency in 1/10 Hz."

AI_9 "1.3.6.1.4.1.2947.1.3.3.0" ! upsInputVoltage.0

SYNTAX INTEGER

DESCRIPTION

"The utility line voltage in 1/10 VAC."

AI_10 "1.3.6.1.4.1.2947.1.3.4.0" ! upsInputCurrent.0

SYNTAX INTEGER

DESCRIPTION

"The utility line current in 1/10 Ampere AC."

AI_11 "1.3.6.1.4.1.2947.1.3.6.1.0" ! upsInputCurrentL1.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present input current on L1."

AI_12 "1.3.6.1.4.1.2947.1.3.6.2.0" ! upsInputCurrentL2.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present input current on L2."

AI_13 "1.3.6.1.4.1.2947.1.3.6.3.0" ! upsInputCurrentL3.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present input current on L3."

AI_14 "1.3.6.1.4.1.2947.1.3.7.1.0" ! upsInputVoltageL1toN.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present input voltage from L1 to Neutral."

AI_15 "1.3.6.1.4.1.2947.1.3.7.2.0" ! upsInputVoltageL2toN.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present input voltage from L2 to Neutral."

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AI_16 "1.3.6.1.4.1.2947.1.3.7.3.0" ! upsInputVoltageL3toN.0
SYNTAX INTEGER
DESCRIPTION

"The magnitude of the present input voltage from L3 to Neutral."

AI_17 "1.3.6.1.4.1.2947.1.3.8.1.0" ! upsInputVoltageL1toL2.0
SYNTAX INTEGER
DESCRIPTION

"The magnitude of the present input voltage from L1 to L2."

AI_18 "1.3.6.1.4.1.2947.1.3.8.2.0" ! upsInputVoltageL2toL3.0
SYNTAX INTEGER
DESCRIPTION

"The magnitude of the present input voltage from L2 to L3."

AI_19 "1.3.6.1.4.1.2947.1.3.8.3.0" ! upsInputVoltageL3toL1.0
SYNTAX INTEGER
DESCRIPTION

"The magnitude of the present input voltage from L3 to L1."

Output Group

AI_20 "1.3.6.1.4.1.2947.1.4.3.0" ! upsOutputFrequency.0
SYNTAX INTEGER
DESCRIPTION

"The output frequency of the UPS expressed in 1/10 Hz."

AI_21 "1.3.6.1.4.1.2947.1.4.4.0" ! upsOutputVoltage.0
SYNTAX INTEGER
DESCRIPTION

"The output voltage of the UPS expressed in 1/10 VAC."

AI_22 "1.3.6.1.4.1.2947.1.4.5.0" ! upsOutputCurrent.0
SYNTAX INTEGER
DESCRIPTION

"The output current of the UPS expressed in 1/10 AC Amperes."

AI_23 "1.3.6.1.4.1.2947.1.4.6.0" ! upsOutputTruePower.0
SYNTAX INTEGER
DESCRIPTION

"The true output power of the UPS expressed in 1/100 Watts."

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AI_24 "1.3.6.1.4.1.2947.1.4.7.0" ! upsOutputApparentPower.0

SYNTAX INTEGER

DESCRIPTION

"The apparent output power of the UPS expressed in 1/100 VoltAmperes(VA)."

AI_25 "1.3.6.1.4.1.2947.1.4.8.0" ! upsOutputPowerFactor.0

SYNTAX INTEGER

DESCRIPTION

"The output powerfactor of the UPS expressed in +/- 1/100 units deviating from 1."

AI_26 "1.3.6.1.4.1.2947.1.4.9.0" ! upsOutputPercentFullLoad.0

SYNTAX INTEGER -- UNITS percent

DESCRIPTION

"The percentage of the total UPS power capacity being used expressed in % of 100."

AI_27 "1.3.6.1.4.1.2947.1.4.10.1.0" ! upsOutputVoltageL1toN.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output voltage from L1 to Neutral."

AI_28 "1.3.6.1.4.1.2947.1.4.10.2.0" ! upsOutputVoltageL2toN.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output voltage from L2 to Neutral."

AI_29 "1.3.6.1.4.1.2947.1.4.10.3.0" ! upsOutputVoltageL3toN.0

SYNTAX INTEGER

DESCRIPTION

" The magnitude of the present Output voltage from L3 to Neutral."

AI_30 "1.3.6.1.4.1.2947.1.4.11.1.0" ! upsOutputVoltageL1toL2.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output voltage from L1 to L2."

AI_31 "1.3.6.1.4.1.2947.1.4.11.2.0" ! upsOutputVoltageL2toL3.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output voltage from L2 to L3."

AI_32 "1.3.6.1.4.1.2947.1.4.11.3.0" ! upsOutputVoltageL3toL1.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output voltage from L3 to L1."

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AI_33 "1.3.6.1.4.1.2947.1.4.12.1.0" ! upsOutputCurrentL1.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output current on L1."

AI_34 "1.3.6.1.4.1.2947.1.4.12.2.0" ! upsOutputCurrentL2.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output current on L2."

AI_35 "1.3.6.1.4.1.2947.1.4.12.3.0" ! upsOutputCurrentL3.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output current on L3."

AI_36 "1.3.6.1.4.1.2947.1.4.13.1.0" ! upsOutputApparentPowerL1.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output ApparentPower on L1."

AI_37 "1.3.6.1.4.1.2947.1.4.13.2.0" ! upsOutputApparentPowerL2.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output ApparentPower on L2."

AI_38 "1.3.6.1.4.1.2947.1.4.13.3.0" ! upsOutputApparentPowerL3.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output ApparentPower on L3."

AI_39 "1.3.6.1.4.1.2947.1.4.14.1.0" ! upsOutputTruePowerL1.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output TruePower on L1."

AI_40 "1.3.6.1.4.1.2947.1.4.14.2.0" ! upsOutputTruePowerL2.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output TruePower on L2."

AI_41 "1.3.6.1.4.1.2947.1.4.14.3.0" ! upsOutputTruePowerL3.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output TruePower on L3."

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AI_42 "1.3.6.1.4.1.2947.1.4.15.1.0" ! upsOutputPowerFactorL1.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output PowerFactor on L1."

AI_43 "1.3.6.1.4.1.2947.1.4.15.2.0" ! upsOutputPowerFactorL2.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output PowerFactor on L2."

AI_44 "1.3.6.1.4.1.2947.1.4.15.3.0" ! upsOutputPowerFactorL3.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output PowerFactor on L3."

AI_45 "1.3.6.1.4.1.2947.1.4.16.1.0" ! upsOutputPercentLoadL1.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output PercentLoad on L1."

AI_46 "1.3.6.1.4.1.2947.1.4.16.2.0" ! upsOutputPercentLoadL2.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output PercentLoad on L2."

AI_47 "1.3.6.1.4.1.2947.1.4.16.3.0" ! upsOutputPercentLoadL3.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Output PercentLoad on L3."

Config Group

Config BestLink

Traps

Control Group

Test Group

Alarm Group

DI_4 "1.3.6.1.4.1.2947.1.8.1.0" ! upsAlarmsPresent.0

SYNTAX Gauge

DESCRIPTION

"The present number of alarm conditions."

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UPS NETWORK ADAPTER CONFIGURATION

```
AI_48 "1.3.6.1.4.1.2947.1.8.2.0" ! upsLastKnownAlarm.0
```

```
SYNTAX INTEGER
```

```
    onBattery(1),
    lowRuntime(2),
    nearLowBattery(3),
    lowBattery(4),
    highBattery(5),
    checkBattery(6),
    replaceBattery(7),
    checkInverter(8),
    batteriesDisconnected(9),
    outputOverload(10),
    lowAcOut(11),
    circuitBreakerWarning(12),
    circuitBreakerShdn(13),
    bypassOn(14),
    autoBypass(15),
    siteWiringFault(16),
    checkFan(17),
    highAmbTemp(18),
    highHSTemp(19),
    highXFMRTemp(20),
    highPFMTemp(21),
    probeMissing(22),
    checkPowerSupply(23),
    tapRegulator(24),
    relayFailure(25),
    checkFuse(26),
    checkMOV(27),
    memoryError(28),
    callService(29),
    upsFailed(30),
    userTest(31),
    testInProgress(32),
    diagnosticTestFailed(33),
    ePO(34),
    upsOff(35),
    communicationsLost(36),
        noAlarm(37)
}
```

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UPS NETWORK ADAPTER CONFIGURATION

DESCRIPTION

"A unique identifier for an alarm condition. This value must remain constant. Value 'noAlarm(37)' will be returned if no Alarm has occurred till the point of GET operation."

DI_5 "1.3.6.1.4.1.2947.1.8.4.1.0" ! upsAlarmOnBattery.0

SYNTAX INTEGER

DESCRIPTION

"The UPS is drawing power from the batteries."

DI_6 "1.3.6.1.4.1.2947.1.8.4.2.0" ! upsAlarmLowRuntime.0

SYNTAX INTEGER

DESCRIPTION

"The remaining battery runtime is less than or equal to the upsConfigLowRuntimeSetpoint."

DI_7 "1.3.6.1.4.1.2947.1.8.4.3.0" ! upsAlarmNearLowBattery.0

SYNTAX INTEGER

DESCRIPTION

"The battery voltage on the UPS has reached a value where the inverter will not be able to function very much longer."

DI_8 "1.3.6.1.4.1.2947.1.8.4.4.0" ! upsAlarmLowBattery.0

SYNTAX INTEGER

DESCRIPTION

"The battery voltage on the UPS has reached a value where the inverter has stopped providing output power to the connected load equipment. The UPS has shutdown to protect the batteries from complete discharge."

DI_1 "1.3.6.1.4.1.2947.1.8.4.36.0" ! upsAlarmCommunicationsLost.0

SYNTAX INTEGER

DESCRIPTION

"A problem has been encountered in the communications between the agent and the UPS."

Bypass Group

DI_3 "1.3.6.1.4.1.2947.1.9.1.0" ! upsBypassStatus.0

SYNTAX INTEGER {

normal(1),

upsOnBypass(2)

}

DESCRIPTION

"The status of the bypass mode."

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UPS NETWORK ADAPTER CONFIGURATION

AI_49 "1.3.6.1.4.1.2947.1.9.2.1.0" ! upsBypassVoltageL1toN.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Bypass voltage from L1 to Neutral."

AI_50 "1.3.6.1.4.1.2947.1.9.2.2.0" ! upsBypassVoltageL2toN.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Bypass voltage from L2 to Neutral."

AI_51 "1.3.6.1.4.1.2947.1.9.2.3.0" ! upsBypassVoltageL3toN.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Bypass voltage from L3 to Neutral."

AI_52 "1.3.6.1.4.1.2947.1.9.3.1.0" ! upsBypassVoltageL1toL2.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Bypass voltage from L1 to L2."

AI_53 "1.3.6.1.4.1.2947.1.9.3.2.0" ! upsBypassVoltageL2toL3.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Bypass voltage from L2 to L3."

AI_54 "1.3.6.1.4.1.2947.1.9.3.3.0" ! upsBypassVoltageL3toL1.0

SYNTAX INTEGER

DESCRIPTION

"The magnitude of the present Bypass voltage from L3 to L1."

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