

# Battery MIB Module

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draft-quittek-power-mib-02

J. Quittek, R. Winter, T. Dietz, D. Dudkowski

# Battery MIB module

- contained in draft-quittek-power-mib
  - but as separate MIB module
  - to be moved into separate draft
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- was not in the very first set of requirements
  - but several people stated interest

# What to monitor?

- current charge of battery
- age of battery (charging cycles)
- state of battery (e.g. being re-charged)
- last usage of battery
- nominal and remaining capacity
- notifications
  - ◆ low battery
  - ◆ battery replacement

# Battery table

```
batteryTable(1)
+--batteryEntry(1) [entPhysicalIndex]
    +-- r-n Enumeration batteryType(1)
    +-- r-n Enumeration batteryTechnology(2)
    +-- r-n Unsigned32 batteryNominalVoltage(3)
    +-- r-n Unsigned32 batteryNumberOfCells(4)
    +-- r-n Unsigned32 batteryNominalCapacity(5)
    +-- r-n Unsigned32 batteryRemainingCapacity(6)
    +-- r-n Counter32 batteryChargingCycleCount(7)
    +-- r-n DateAndTime batteryLastChargingCycleTime(8)
    +-- r-n Enumeration batteryState(9)
    +-- r-n Unsigned32 batteryCurrentCharge(10)
    +-- r-n Unsigned32 batteryCurrentChargePercentage(11)
    +-- r-n Unsigned32 batteryCurrentVoltage(12)
    +-- r-n Integer32 batteryCurrentCurrent(13)
    +-- r-n Unsigned32 batteryLowAlarmPercentage(14)
    +-- r-n Unsigned32 batteryLowAlarmVoltage(15)
    +-- r-n Unsigned32 batteryReplacementAlarmCapacity(16)
    +-- r-n Unsigned32 batteryReplacementAlarmCycles(17)
```

# Open issues

- still homework to be done
  - ◆ alignment with UPS MIB
  - ◆ comparison with existing private MIB modules
- do we need a battery ID?