PWG-IMAGING-SYSTEM-POWER-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, Integer32, Counter32, Gauge32,
enterprises, NOTIFICATION-TYPE
FROM SNMPv2-SMI -- RFC 2578

TEXTUAL-CONVENTION, DateAndTime, DisplayString, TruthValue,
RowStatus
FROM SNMPv2-TC -- RFC 2579

MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP
FROM SNMPv2-CONF -- RFC 2580

SnmpAdminString
FROM SNMP-FRAMEWORK-MIB; -- RFC 3411

powPowerMIB MODULE-IDENTITY
LAST-UPDATED "201102140000Z" -- 14 February 2011
ORGANIZATION "Printer Working Group, a Program of IEEE/ISTO"
CONTACT-INFO
"Workgroup for Imaging Management Solutions (WIMS)
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DESCRIPTION
"The MIB module for passive monitoring and optional active
management of power state for Imaging Systems and optionally for
their associated Subunit components.

Copyright (C) IEEE/ISTO PWG (2011)."
 ::= { enterprises pwg(2699) mibs(1) powPowerMIB(6) }

powMIBNotifications OBJECT IDENTIFIER ::= { powPowerMIB 0 }
powMIBObjects OBJECT IDENTIFIER ::= { powPowerMIB 1 }
powMIBConformance OBJECT IDENTIFIER ::= { powPowerMIB 2 }
powMIBObjectGroups OBJECT IDENTIFIER ::= { powMIBConformance 2 }
powMIBNotificationGroups OBJECT IDENTIFIER ::= { powMIBConformance 3 }

--
-- Textual Conventions
--

PowerStateTC := TEXTUAL-CONVENTION

STATUS current

DESCRIPTION
"The power state of this component (System or Subunit)."
Usage: Vendor extensions allowed ONLY for primary power states
(on, standby, suspend, hibernate, and offSoft). Vendor
extensions are intentionally not defined for reset or
interrupts."

REFERENCE
"Table 3 in section 7.3 in DMTF CIM Power Profile (DSP 1027)."

SYNTAX INTEGER {

other(1), -- DO NOT USE
unknown(2), -- initial default ONLY
on(20), -- On - fully operational
onVendor1(21),
onVendor2(22),
onVendor3(23),
onVendor4(24),
onVendor5(25),
standby(30), -- Standby - light sleep
standbyVendor1(31),
standbyVendor2(32),
standbyVendor3(33),
standbyVendor4(34),
standbyVendor5(35),
suspend(40), -- Suspend - deep sleep
suspendVendor1(41),
suspendVendor2(42),
suspendVendor3(43),
suspendVendor4(44),
suspendVendor5(45),
resetSoft(50), -- Reset - soft reset
offHard(60), -- Off Hard - no power consumed
hibernate(70), -- Hibernate - context save, off
hibernateVendor1(71),
hibernateVendor2(72),
hibernateVendor3(73),
hibernateVendor4(74),
hibernateVendor5(75),
offSoft(80), -- Off Soft - w/ auxiliary power
offSoftVendor1(81),
offSoftVendor2(82),
offSoftVendor3(83),
offSoftVendor4(84),
offSoftVendor5(85),
resetHard(90), -- hard off, power on
resetMBR(100), -- Master Bus Reset
resetNMI(110), -- Non-Maskable Interrupt
offSoftGraceful(120), -- orderley shutdown, soft off
offHardGraceful(130), -- orderley shutdown, hard off
resetMBRGraceful(140), -- orderley shutdown, MBR reset
resetSoftGraceful(150), -- orderley shutdown, soft reset
resetHardGraceful(160), -- orderley shutdown, hard reset
resetINT(170), -- Diagnostic Interrupt (INIT)
notApplicable(180),
noChange(190)
PowPowerCalendarMonthTC ::= TEXTUAL-CONVENTION
  STATUS  current
  DESCRIPTION
    "The trigger month (January through December or any) for this
    calendar policy."
  REFERENCE
    "schedMonth in IETF Schedule MIB (RFC 3231)."
  SYNTAX  INTEGER {
    january(1),
    february(2),
    march(3),
    april(4),
    may(5),
    june(6),
    july(7),
    august(8),
    september(9),
    october(10),
    november(11),
    december(12),
    any(13)
  }

PowPowerCalendarDayOfWeekTC ::= TEXTUAL-CONVENTION
  STATUS  current
  DESCRIPTION
    "The trigger day of week (Sunday through Saturday or any) for
    this calendar policy."
  REFERENCE
    "schedWeekDay in IETF Schedule MIB (RFC 3231)."
  SYNTAX  INTEGER {
    sunday(1),
    monday(2),
    tuesday(3),
    wednesday(4),
    thursday(5),
    friday(6),
    saturday(7),
    any(8)
  }

PowPowerComponentTypeTC ::= TEXTUAL-CONVENTION
  STATUS  current
  DESCRIPTION
    "The type of this component (System or Subunit) on this
    Imaging System."
  REFERENCE
    "IcSubunitTypeTC, icSubunitType, and icKeySubunitType in
    PWG Imaging System State and Counter MIB v2 (PWG 5106.3);
    prtAlertGroup in IETF Printer MIB (RFC 1759/3805);
    PrtAlertGroupTC in IANA Printer MIB (RFC 3805
    and http://www.iana.org/assignments/ianaprinter-mib)."
  SYNTAX  INTEGER {
    other(1),
unknown (2),
console (4),
cover (6),
inputTray (8),
outputTray (9),
marker (10),
mediaPath (13),
inputChannel (14),
interpreter (15),
finisher (30),
interface (40),
scanner (50),
scanMediaPath (51),
faxModem (60),
outputChannel (70),
storage (80),
processor (90)
}

PowPowerPolicyMaxAccessTC ::= TEXTUAL-CONVENTION

STATUS current
DESCRIPTION "Maximum access to policies supported on this Imaging System."
REFERENCE "pow[Timeout/Calendar/Event]RowStatus in this MIB."
SYNTAX INTEGER {
  other (1),        -- accessible-for-notify
  unknown (2),      -- unknown - DO NOT USE
  none (3),         -- no policy access supported
  readOnly (4),     -- read-only
  readWrite (5),    -- read-write
  readCreate (6)    -- read-create
}

PowPowerRequestStatusTC ::= TEXTUAL-CONVENTION

STATUS current
DESCRIPTION "The current processing status of this power state change request for this component (System or Subunit)."
REFERENCE "Section 3.1.6.1 status-code in IETF IPP/1.1 (RFC 2911)."
SYNTAX INTEGER {
  other (1),
  unknown (2),
  none (3),
inProgress (4),
warning (5),
error (6),
success (7)
}

PowPowerTimeoutPredicateTC ::= TEXTUAL-CONVENTION

STATUS current
DESCRIPTION
"The timeout predicate for this policy.

'none' means no timeout predicate (i.e., ignore for trigger).
'activity' means incoming job, console input, etc.
'inactivity' means no incoming job, console input, etc."

REFERENCE
"Section 4.4.11 printer-state in IETF IPP/1.1 (RFC 2911)."

SYNTAX    INTEGER {
other(1),
unknown(2),
none(3),
activity(4),
inactivity(5)
}

--
-- General Group
--

powGeneral    OBJECT IDENTIFIER ::= { powMIBObjects 1 }

powGeneralNaturalLanguage OBJECT-TYPE
SYNTAX     DisplayString (SIZE(0..63))
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
"The natural language tag (RFC 5646) for all localized text
string objects (syntax of SnmpAdminString) defined in this MIB
specified as a visible US-ASCII string (ISO 646) that MUST NOT
contain any US-ASCII control characters (0x00 to 0x1F inclusive,
or 0x7F).

If this object is empty, then the natural language for
all localized text string objects defined in this MIB MUST
be 'en-US' (US English)."

REFERENCE
"IETF Tags for Identifying Languages (RFC 5646);
jobNaturalLanguageTag attribute in Job Mon MIB (RFC 2707);
prtGeneralCurrentLocalization and prtLocalizationTable in
IETF Printer MIB (RFC 1759/3805);
attributes-natural-language in IETF IPP/1.1 (RFC 2911)."

DEFVAL      { "en-US" }    -- US English default
 ::= { powGeneral 1 }

-- Reserved 'powGeneral.2'
-- Reserved 'powGeneral.3'
-- Reserved 'powGeneral.4'
-- Reserved 'powGeneral.5'
-- Reserved 'powGeneral.6'
-- Reserved 'powGeneral.7'
-- Reserved 'powGeneral.8'
-- Reserved 'powGeneral.9'

powGeneralPolicyMaxAccess OBJECT-TYPE
271  SYNTAX      PowPowerPolicyMaxAccessTC
272  MAX-ACCESS  read-only
273  STATUS      current
274  DESCRIPTION  
275      "Maximum access to policies supported on this Imaging System."
276  REFERENCE   
277      "pow[Timeout/Calendar/Event]RowStatus in this MIB."
278  DEFVAL      { none } -- no policies (OPTIONAL)
279    ::= { powGeneral 10 }
280
281  powGeneralPowerUsageIsRMSWatts OBJECT-TYPE
282  SYNTAX      TruthValue
283  MAX-ACCESS  read-only
284  STATUS      current
285  DESCRIPTION  
286      "Specifies whether the power consumption objects on this Imaging
287       System use units of Root Mean Square (RMS) watts (true) or
288       unnormalized so-called peak watts (false)."
289  REFERENCE   
290      "powSupportTable and powMeterTable in this MIB."
291  DEFVAL      { false } -- not RMS watts
292    ::= { powGeneral 11 }
293
294  -- Reserved 'powGeneral.12'
295  -- Reserved 'powGeneral.13'
296
297  powGeneralCanRequestPowerStates OBJECT-TYPE
298  SYNTAX      DisplayString (SIZE(0..255))
299  MAX-ACCESS  read-only
300  STATUS      current
301  DESCRIPTION  
302      "Specifies all of the stable and transitional power states that
303       can be requested (in policies or operations) on this Imaging
304       System.
305
306      For example: '20,30,40,50,60,70,80,90'.
307
308      Usage: Conforming values MUST contain a comma-delimited list of
309       values of PowPowerStateTC in this MIB or the empty string
310       (none)."
311  REFERENCE   
312      "PowPowerStateTC in this MIB."
313  DEFVAL      { "" } -- none
314    ::= { powGeneral 14 }
315
316  --
317  -- Monitor Group
318  --
319
320  powMonitor OBJECT IDENTIFIER ::= { powMIBObjects 2 }
321
322  powMonitorTable OBJECT-TYPE
323  SYNTAX      SEQUENCE OF PowMonitorEntry
324  MAX-ACCESS  not-accessible
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325  STATUS    current
326  DESCRIPTION
327       "A table for the monitored components (System or Subunit)
328       on this Imaging System."
329     ::= { powMonitor 1 }
330
331  powMonitorEntry OBJECT-TYPE
332     SYNTAX     PowMonitorEntry
333     MAX-ACCESS not-accessible
334     STATUS    current
335     DESCRIPTION
336       "An entry for one monitored component (System or Subunit)
337       on this Imaging System."
338     INDEX     { powMonitorIndex }
339     ::= { powMonitorTable 1 }
340
341  PowMonitorEntry ::= SEQUENCE {
342    powMonitorIndex             Integer32,
343    powMonitorPowerState       PowPowerStateTC,
344    powMonitorPowerStateMessage SnmpAdminString,
345    powMonitorComponentType    PowPowerComponentTypeTC,
346    powMonitorComponentReferenceId Integer32
347  }
348
349  powMonitorIndex OBJECT-TYPE
350     SYNTAX     Integer32 (1..2147483647)
351     MAX-ACCESS not-accessible
352     STATUS    current
353     DESCRIPTION
354       "Primary key of this monitor entry for one referenced component
355       (System or Subunit) on this Imaging System."
356
357     Usage:   The referenced component is uniquely specified by values
358       of powMonitorComponentType and powMonitorComponentReferenceId.
359
360     Usage:   Values of this object MUST be persistent across system
361       reboots, except in the case of major system reconfigurations.
362
363     DEFVAL intentionally omitted - index object."
364     ::= { powMonitorEntry 1 }
365
366  powMonitorPowerState OBJECT-TYPE
367     SYNTAX     PowPowerStateTC
368     MAX-ACCESS read-only
369     STATUS    current
370     DESCRIPTION
371       "The current power state of this monitored component (System
372       or Subunit) on this Imaging System."
373
374     Usage:   Imaging Systems MUST implement 'on' and 'offSoft'.
375     Imaging Systems SHOULD implement the 'standby', 'suspend', and
376       'hibernate' values.
377
378     Usage:   Imaging Systems MUST support standard power states
(e.g., 'standby') whenever they support vendor extensions (e.g., 'standbyVendor1')."

REFERENCE

"Table 3 in section 7.3 in DMTF CIM Power Profile (DSP 1027);
powLogPowerState in this MIB."

DEFVAL { unknown } -- unknown power state
::= { powMonitorEntry 2 }  

powMonitorPowerStateMessage OBJECT-TYPE
SYNTAX    SnmpAdminString (SIZE(0..255))
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
"The human-readable message that describes, explains, or qualifies the current power state for this monitored component (System or Subunit) on this Imaging System, specified as a Unicode string encoded in UTF-8 (RFC 3629) in the natural language specified in powGeneralNaturalLanguage.

For example: 'On from calendar trigger (34 watts)'.

Usage: Conforming values:
(a) MUST identify the power state;
(b) SHOULD identify the method of entry to the power state, e.g., 'from timeout trigger' or 'from user request';
(c) SHOULD identify the nominal power consumption, e.g., '(34 watts)'; and
(d) MAY include any other power-related information, e.g., 'can accept jobs' or 'can process jobs'."

REFERENCE

"powLogPowerStateMessage in this MIB."

DEFVAL { "" } -- no power state message
::= { powMonitorEntry 3 }

powMonitorComponentType OBJECT-TYPE
SYNTAX    PowPowerComponentTypeTC
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
"The type of this monitored component (System or Subunit) on this Imaging System.

Usage: Imaging Systems MUST implement the 'system' value. Imaging Systems SHOULD implement the 'scanner' and 'marker' values, if these components are present."

REFERENCE

"IcSubunitTypeTC, icSubunitType, and icKeySubunitType in PWG Imaging System State and Counter MIB v2 (PWG 5106.3);
prtAlertGroup in IETF Printer MIB (RFC 1759/3805);
PrtAlertGroupTC in IANA Printer MIB (RFC 3805 and http://www.iana.org/assignments/ianaprinter-mib)."

DEFVAL { system } -- system object
::= { powMonitorEntry 4 }
powMonitorComponentReferenceId OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The reference identifier of this monitored component (System or Subunit) on this Imaging System or zero (if not available, because there is no corresponding component in another MIB)."

Usage: Conforming values:
(a) for System, MUST be the corresponding hrDeviceIndex (for hrDevicePrinter) in IETF Host Resources MIB (RFC 2790), if IETF Printer MIB (RFC 3805) is implemented; otherwise, SHOULD be a corresponding hrDeviceIndex (e.g., for hrDeviceProcessor);
(b) for Subunit defined in IETF Printer MIB (RFC 3805), MUST be the corresponding Subunit index (e.g.,prtInputIndex), if IETF Printer MIB (RFC 3805) is implemented; otherwise SHOULD be a corresponding hrDeviceIndex (e.g., for hrDeviceKeyboard);
(c) For Finisher, MUST be the corresponding finDeviceIndex in IETF Finisher MIB (RFC 3806), if IETF Printer MIB (RFC 3805) and IETF Finisher MIB (RFC 3806) are implemented; otherwise SHOULD be a corresponding hrDeviceIndex;
(d) for Interface, MUST be the corresponding ifIndex in IETF MIB-II (RFC 1213);
(e) for FaxModem, MUST be the corresponding hrDeviceIndex (for hrDeviceModem) in IETF Host Resources MIB (RFC 2790);
(f) for Processor, MUST be the corresponding hrDeviceIndex (for hrDeviceProcessor or hrDeviceCoprocessor) in IETF Host Resources MIB (RFC 2790);
(g) for Scanner or ScanMediaPath, MUST be the corresponding hrDeviceIndex (for hrDeviceOther or vendor OID) in IETF Host Resources MIB (RFC 2790);
(h) for OutputChannel, MUST be the corresponding hrDeviceIndex (for hrDeviceNetwork or vendor OID) in IETF Host Resources MIB (RFC 2790); and
(i) for Storage, MUST be the corresponding hrStorageIndex in IETF Host Resources MIB (RFC 2790)."

REFERENCE

"hrDeviceIndex and hrDeviceType in IETF Host Resources MIB (RFC 2790);
powLogComponentReferenceId in this MIB."

DEFVAL { 0 } -- no component reference ID

::= { powMonitorEntry 5 }

--

-- Log Group

--

powLog OBJECT IDENTIFIER ::= { powMIBObjects 3 }

powLogTable OBJECT-TYPE

SYNTAX SEQUENCE OF PowLogEntry

MAX-ACCESS not-accessible

STATUS current
DESCRIPTION

"A table of the log entries on this Imaging System.

Usage: Conforming implementations SHOULD support at least 10
entries concurrently in the powLogTable and MUST always delete
the oldest entry first (FIFO) for memory management, i.e., the
powLogTable always consists of a sliding window of entries with
contiguous values of powLogIndex."

::= { powLog 1 }

powLogEntry OBJECT-TYPE
SYNTAX PowLogEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An entry for a log entry on this Imaging System."
INDEX { powLogIndex }
::= { powLogTable 1 }

PowLogEntry ::= SEQUENCE {
  powLogIndex Integer32,
powLogPowerState PowPowerStateTC,
powLogPowerStateMessage SnmpAdminString,
powLogPowerStateDateAndTime DateAndTime,
powLogComponentType PowPowerComponentTypeTC,
powLogComponentReferenceId Integer32
}

powLogIndex OBJECT-TYPE
SYNTAX Integer32 (1..2147483647)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Primary key of this log entry on this Imaging System.

Usage: Values of this object MUST monotonically increase over
time and MUST NOT reset in the lifetime of this Imaging System.

Usage: Values of this object MUST be persistent across system
reboots.

DEFVAL intentionally omitted - index object."
::= { powLogEntry 1 }

powLogPowerState OBJECT-TYPE
SYNTAX PowPowerStateTC
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The logged power state of the referenced component (System or
Subunit) on this Imaging System.

Usage: Imaging Systems MUST implement 'on' and 'offSoft'.
Imaging Systems SHOULD implement the 'standby', 'suspend', and
'hibernate' values.

Usage: Imaging Systems MUST support standard power states (e.g., 'standby') whenever they support vendor extensions (e.g., 'standbyVendor1').

Usage: Imaging Systems SHOULD only add entries to powLogTable when a power state transition occurs (i.e., successive rows in the powLogTable for the same component SHOULD NOT have the same power state).

REFERENCE
"Table 3 in section 7.3 in DMTF CIM Power Profile (DSP 1027);
powMonitorPowerState in this MIB."

DEFVAL { unknown } -- unknown power state
::= { powLogEntry 2 }

powLogPowerStateMessage OBJECT-TYPE
SYNTAX SnmpAdminString (SIZE(0..255))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The human-readable message that describes, explains, or qualifies the logged power state for the referenced component (System or Subunit) on this Imaging System, specified as a Unicode string encoded in UTF-8 (RFC 3629) in the natural language specified in powGeneralNaturalLanguage."

REFERENCE
"powMonitorPowerStateMessage in this MIB."
DEFVAL { "" } -- no power state message
::= { powLogEntry 3 }

powLogPowerStateDateAndTime OBJECT-TYPE
SYNTAX DateAndTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The date and time of this logged power state transition on the referenced component (System or Subunit) on this Imaging System."

REFERENCE
"hrSystemDate in IETF Host Resources MIB (RFC 2790)."
::= { powLogEntry 4 }

powLogComponentType OBJECT-TYPE
SYNTAX PowPowerComponentTypeTC
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The type of this logged component (System or Subunit) on this Imaging System.

Usage: Imaging Systems MUST implement the 'system' value.
Imaging Systems SHOULD implement the 'scanner' and 'marker' values, if these components are present."
"IcSubunitTypeTC, icSubunitType, and icKeySubunitType in PWG Imaging System State and Counter MIB v2 (PWG 5106.3);
prtAlertGroup in IETF Printer MIB (RFC 1759/3805);
PrtAlertGroupTC in IANA Printer MIB (RFC 3805 and http://www.iana.org/assignments/ianaprinter-mib);
powMonitorComponentType in this MIB."

DEFVAL { system } -- system object
::= { powLogEntry 5 }

powLogComponentReferenceId OBJECT-TYPE
SYNTAX Integer32 (0..2147483647)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The reference identifier of this logged component (System or Subunit) on this Imaging System or zero (none)."

REFERENCE
"powMonitorComponentReferenceId in this MIB."
DEFVAL { 0 } -- no component reference ID
::= { powLogEntry 6 }

--
-- Support Group
--
powSupport OBJECT IDENTIFIER ::= { powMIBObjects 4 }

powSupportTable OBJECT-TYPE
SYNTAX SEQUENCE OF PowSupportEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A table of the supported stable power states for the monitored components (System or Subunit) on this Imaging System."
::= { powSupportTable 1 }

powSupportEntry OBJECT-TYPE
SYNTAX PowSupportEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An entry for one supported stable power state for one monitored component (System or Subunit) on this Imaging System."
INDEX { powMonitorIndex,
powSupportPowerState }::= { powSupportTable 1 }

PowSupport ::= SEQUENCE {
powSupportPowerState PowPowerStateTC,
powSupportPowerInactiveWatts Integer32,
powSupportPowerActiveWatts Integer32,
powSupportCanAcceptJobs TruthValue,
powSupportCanProcessJobs TruthValue,
powSupportCanRequestPowerState OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "The secondary key of this supported stable power state on this
component (System or Subunit) on this Imaging System.

Usage: The value of this object MUST be a stable power state.
Usage: Imaging Systems MUST implement 'on' and 'offSoft'.
Imaging Systems SHOULD implement the 'standby', 'suspend', and 'hibernate' values.
Usage: Imaging Systems MUST support standard power states (e.g., 'standby') whenever they support vendor extensions (e.g., 'standbyVendor1').

DEFVAL intentionally omitted - index object."
REFERENCE "Table 3 in section 7.3 in DMTF CIM Power Profile (DSP 1027);
powMonitorPowerState in this MIB."
::= { powSupportEntry 1 }

powSupportPowerInactiveWatts OBJECT-TYPE
SYNTAX Integer32 (0..2147483647)
UNITS "watts"
MAX-ACCESS read-only
STATUS current
DESCRIPTION "The nominal power consumption in watts of this stable power state on this component (System or Subunit) on this Imaging System or zero (for less than one watt, i.e., nominal none), when the component is in an inactive operational state (e.g., Idle or Stopped).

Usage: This nominal power consumption MUST be determined by the manufacturer and NOT by actual power consumption measurement."
DEFVAL { 0 } -- no inactive power usage
::= { powSupportEntry 2 }

powSupportPowerActiveWatts OBJECT-TYPE
SYNTAX Integer32 (0..2147483647)
UNITS "watts"
MAX-ACCESS read-only
STATUS current
DESCRIPTION "The nominal power consumption in watts of this stable power state on this component (System or Subunit) on this Imaging System or zero (for less than one watt, i.e., nominal none), when the component is in a non-inactive operational state (e.g., Active or Running).

Usage: This nominal power consumption MUST be determined by the manufacturer and NOT by actual power consumption measurement."
DEFVAL { 0 } -- no active power usage
::= { powSupportEntry 3 }
System or zero (for less than one watt, i.e., nominal none), when the component is in an active operational state (e.g., Processing or Testing).

Usage: This nominal power consumption MUST be determined by the manufacturer and NOT by actual power consumption measurement.

```````````
DEFVAL { 0 } -- no active power usage
::= { powSupportEntry 3 }
```````````

```````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````
powSupportCanUseInterfaces OBJECT-TYPE
  SYNTAX DisplayString (SIZE(0..255))
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
  "Specifies whether this stable power state on this component
  (System or Subunit) on this Imaging System can use the specified
  interfaces.

  For example: '1,3,4'.

  Usage: Conforming values MUST contain a comma-delimited list of
  values of ifIndex in IETF MIB-II (RFC 1213) or the empty string
  (none)."

  DEFVAL { "" } -- cannot use any interfaces
  ::= { powSupportEntry 7 }

powSupportPowerPeakWatts OBJECT-TYPE
  SYNTAX Integer32 (0..2147483647)
  UNITS "watts"
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
  "The peak power consumption in watts of this stable power
  state on this component (System or Subunit) on this Imaging
  System or zero (for less than one watt, i.e., peak none),
  when the component is in an active operational state (e.g.,
  Processing or Testing).

  Usage: This peak power consumption MUST be determined by the
  manufacturer and NOT by actual power consumption measurement."

  DEFVAL { 0 } -- no peak power usage
  ::= { powSupportEntry 8 }

--

-- Transition Group

--

powTransition OBJECT IDENTIFIER ::= { powMIBObjects 5 }

powTransitionTable OBJECT-TYPE
  SYNTAX SEQUENCE OF PowTransitionEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
  "A table of the supported transitions between stable power
  states for the monitored components (System or Subunit) on this
  Imaging System."
  ::= { powTransition 1 }

powTransitionEntry OBJECT-TYPE
SYNTAX  PowTransitionEntry
MAX-ACCESS not-accessible
STATUS  current

DESCRIPTION
"An entry for one supported transition between stable power states for the monitored components (System or Subunit) on this Imaging System."

INDEX  { powMonitorIndex,
powTransitionStartPowerState,
powTransitionEndPowerState }
::= { powTransitionTable 1 }

PowTransitionEntry ::= SEQUENCE {
powTransitionStartPowerState  PowPowerStateTC,
powTransitionEndPowerState  PowPowerStateTC,
powTransitionStateChangeSeconds  Integer32
}

powTransitionStartPowerState  OBJECT-TYPE
SYNTAX  PowPowerStateTC
MAX-ACCESS not-accessible
STATUS  current

DESCRIPTION
"The secondary key of this supported power transition on this component (System or Subunit) on this Imaging System.

Usage:  The value of this object MUST be a stable power state.

Usage: Imaging Systems MUST implement 'on' and 'offSoft'.
Imaging Systems SHOULD implement the 'standby', 'suspend', and 'hibernate' values.

Usage:  Imaging Systems MUST support standard power states (e.g., 'standby') whenever they support vendor extensions (e.g., 'standbyVendor1').

DEFVAL intentionally omitted - index object."

REFERENCE
"Table 3 in section 7.3 in DMTF CIM Power Profile (DSP 1027); powMonitorPowerState in this MIB."
::= { powTransitionEntry 1 }

powTransitionEndPowerState  OBJECT-TYPE
SYNTAX  PowPowerStateTC
MAX-ACCESS not-accessible
STATUS  current

DESCRIPTION
"The tertiary key of this supported power transition on this component (System or Subunit) on this Imaging System.

Usage:  The value of this object MUST be a stable power state.

Usage: Imaging Systems MUST implement 'on' and 'offSoft'.
Imaging Systems SHOULD implement the 'standby', 'suspend', and
"
'hibernate' values.

Usage: Imaging Systems MUST support standard power states (e.g., 'standby') whenever they support vendor extensions (e.g., 'standbyVendor1').

DEFVAL intentionally omitted - index object.

REFERENCE

"Table 3 in section 7.3 in DMTF CIM Power Profile (DSP 1027); powMonitorPowerState in this MIB."

::= { powTransitionEntry 2 }

powTransitionStateChangeSeconds OBJECT-TYPE
SYNTAX     Integer32 (0..2147483647)
UNITS      "seconds"
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
"The nominal duration in seconds of this supported power state transition on this component (System or Subunit) on this Imaging System or zero (for less than one second, i.e., nominal immediate).

Usage: This nominal transition time MUST be determined by the manufacturer and NOT by actual transition duration measurement."

DEFVAL     { 0 }  -- nominal immediate
::= { powTransitionEntry 3 }

--
-- Request Group
--

powRequest OBJECT IDENTIFIER ::= { powMIBObjects 6 }

powRequestTable OBJECT-TYPE
SYNTAX     SEQUENCE OF PowRequestEntry
MAX-ACCESS not-accessible
STATUS     current
DESCRIPTION
"A table of the requested power state changes for the monitored components (System or Subunit) on this Imaging System."
::= { powRequest 1 }

powRequestEntry OBJECT-TYPE
SYNTAX     PowRequestEntry
MAX-ACCESS not-accessible
STATUS     current
DESCRIPTION
"An entry for one requested power state change for one monitored component (System or Subunit) on this Imaging System."
INDEX      { powMonitorIndex }
::= { powRequestTable 1 }

PowRequestEntry ::= SEQUENCE {
919  powRequestPowerState  PowPowerStateTC,
920  powRequestStatus  PowPowerRequestStatusTC
921 }

923  powRequestPowerState  OBJECT-TYPE
924    SYNTAX  PowPowerStateTC
925    MAX-ACCESS  read-write
926    STATUS  current
927    DESCRIPTION
928      "The requested target power state for this component (System
929      or Subunit) on this Imaging System."
930    REFERENCE
931      "Table 3 in section 7.3 in DMTF CIM Power Profile (DSP 1027);
932      powMonitorPowerState in this MIB;
933      powSupportCanRequestPowerState in this MIB;
934      powRequestStatus in this MIB."
935    DEFVAL  { unknown }  -- unknown power state
936 ::= { powRequestEntry  1 }

938  powRequestStatus  OBJECT-TYPE
939    SYNTAX  PowPowerRequestStatusTC
940    MAX-ACCESS  read-only
941    STATUS  current
942    DESCRIPTION
943      "The current processing status of this power request for this
944      component (System or Subunit) on this Imaging System."
945    REFERENCE
946      "powRequestPowerState in this MIB."
947    DEFVAL  { none }  -- no request ever processed
948 ::= { powRequestEntry  2 }

--
952  -- Timeout Group
953  --

954  powTimeout  OBJECT IDENTIFIER ::= { powMIBObjects  7 }
956  powTimeoutTable  OBJECT-TYPE
957    SYNTAX  SEQUENCE  OF  PowTimeoutEntry
958    MAX-ACCESS  not-accessible
959    STATUS  current
960    DESCRIPTION
961      "A table of the configured timeout policies for the monitored
962      components (System or Subunit) on this Imaging System."
963 ::= { powTimeout  1 }

965  powTimeoutEntry  OBJECT-TYPE
966    SYNTAX  PowTimeoutEntry
967    MAX-ACCESS  not-accessible
968    STATUS  current
969    DESCRIPTION
970      "An entry for one configured timeout policy for one monitored
971      component (System or Subunit) on this Imaging System."
972    INDEX  { powMonitorIndex,
PowTimeoutIndex ::= SEQUENCE {
    powTimeoutIndex Integer32,
    powTimeoutRequestPowerState PowPowerStateTC,
    powTimeoutStartPowerState PowPowerStateTC,
    powTimeoutPredicate PowPowerTimeoutPredicateTC,
    powTimeoutSeconds Integer32,
    powTimeoutRowStatus RowStatus
}

powTimeoutIndex OBJECT-TYPE
SYNTAX Integer32 (1..2147483647)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Secondary key of this timeout policy for this component
(System or Subunit) on this Imaging System.

Usage: Values of this object MUST be persistent across system
reboots, except in the case of major system reconfigurations.

DEFVAL intentionally omitted - index object."
 ::= { powTimeoutEntry 1 }

powTimeoutRequestPowerState OBJECT-TYPE
SYNTAX PowPowerStateTC
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The requested target power state for this component (System
or Subunit) on this Imaging System when this timeout policy is
triggered."
REFERENCE
"Table 3 in section 7.3 in DMTF CIM Power Profile (DSP 1027);
powMonitorPowerState in this MIB;
powSupportCanRequestPowerState in this MIB;
powRequestPowerState in this MIB."
DEFVAL { unknown } -- unknown power state
 ::= { powTimeoutEntry 2 }

powTimeoutStartPowerState OBJECT-TYPE
SYNTAX PowPowerStateTC
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The specific start power state for this component (System
or Subunit) on this Imaging System for this timeout policy."
REFERENCE
"Table 3 in section 7.3 in DMTF CIM Power Profile (DSP 1027);
powMonitorPowerState in this MIB;"
powTimeoutPredicate OBJECT-TYPE
SYNTAX PowPowerTimeoutPredicateTC
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The predicate for this timeout policy on this component (System
or Subunit) on this Imaging System."
REFERENCE
"Table 3 in section 7.3 in DMTF CIM Power Profile (DSP 1027);
powMonitorPowerState in this MIB."
DEFVAL { none } -- no predicate
::= { powTimeoutEntry 4 }
powTimeoutSeconds OBJECT-TYPE
SYNTAX Integer32 (0..2147483647)
UNITS "seconds"
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The nominal duration in seconds of this timeout policy
on this component (System or Subunit) on this Imaging System
or zero (none)."
REFERENCE
"schedInterval in IETF Schedule MIB (RFC 3231)."
DEFVAL { 0 } -- none
::= { powTimeoutEntry 5 }
powTimeoutRowStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The row status management object for this timeout policy
on this component (System or Subunit) on this Imaging System."
REFERENCE
"schedRowStatus in IETF Schedule MIB (RFC 3231)."
DEFVAL { notInService } -- inactive
::= { powTimeoutEntry 6 }

-- Calendar Group
--
powCalendar OBJECT IDENTIFIER ::= { powMIBObjects 8 }
powCalendarTable OBJECT-TYPE
SYNTAX SEQUENCE OF PowCalendarEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A table of the configured calendar policies for the monitored
components (System or Subunit) on this Imaging System."
::= { powCalendar 1 }
C:\samsung\work\cs-wimspowermib10-20110214-5106.5.mib
Monday, March 14, 2011 4:33 PM

1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134

powCalendarEntry OBJECT-TYPE
SYNTAX PowCalendarEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An entry for one configured calendar policy for one monitored component (System or Subunit) on this Imaging System."
INDEX { powMonitorIndex,
          powCalendarIndex }
 ::= { powCalendarTable 1 }

PowCalendarEntry ::= SEQUENCE {
                         powCalendarIndex Integer32,
                         powCalendarRequestPowerState PowPowerStateTC,
                         powCalendarRunOnce TruthValue,
                         powCalendarDayOfWeek PowPowerCalendarDayOfWeekTC,
                         powCalendarMonth PowPowerCalendarMonthTC,
                         powCalendarDay Integer32,
                         powCalendarHour Integer32,
                         powCalendarMinute Integer32,
                         powCalendarRowStatus RowStatus
                         }

powCalendarIndex OBJECT-TYPE
SYNTAX Integer32 (1..2147483647)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Secondary key of this calendar policy for this component (System or Subunit) on this Imaging System. Usage: Values of this object MUST be persistent across system reboots, except in the case of major system reconfigurations."
DEFVAL intentionally omitted - index object."
 ::= { powCalendarEntry 1 }

powCalendarRequestPowerState OBJECT-TYPE
SYNTAX PowPowerStateTC
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The requested target power state for this component (System or Subunit) on this Imaging System when this calendar policy is triggered."
REFERENCE
"Table 3 in section 7.3 in DMTF CIM Power Profile (DSP 1027); powMonitorPowerState in this MIB; powSupportCanRequestPowerState in this MIB; powRequestPowerState in this MIB."
DEFVAL { unknown } -- unknown power state
 ::= { powCalendarEntry 2 }
1135  powCalendarRunOnce OBJECT-TYPE
1136     SYNTAX           TruthValue
1137     MAX-ACCESS      read-create
1138     STATUS          current
1139     DESCRIPTION    "Specifies whether this calendar policy on this component
1140                   (System or Subunit) on this Imaging System can be triggered
1141                   more than once (false) or exactly once (true)."
1142     REFERENCE       "schedType in IETF Schedule MIB (RFC 3231)."
1143     DEFVAL          { false } -- multiple executions
1144     ::= { powCalendarEntry 3 }
1145
1147  powCalendarDayOfWeek OBJECT-TYPE
1148     SYNTAX           PowPowerCalendarDayOfWeekTC
1149     MAX-ACCESS      read-create
1150     STATUS          current
1151     DESCRIPTION    "The trigger day of week (Sunday through Saturday or any) for
1152                   this calendar policy on this component (System or Subunit) on
1153                   this Imaging System."
1154     REFERENCE       "schedWeekDay in IETF Schedule MIB (RFC 3231)."
1155     DEFVAL          { any } -- any day of week
1156     ::= { powCalendarEntry 4 }
1157
1160  powCalendarMonth OBJECT-TYPE
1161     SYNTAX           PowPowerCalendarMonthTC
1162     MAX-ACCESS      read-create
1163     STATUS          current
1164     DESCRIPTION    "The trigger month (January through December or any) for this
1165                   calendar policy on this component (System or Subunit) on this
1166                   Imaging System."
1167     REFERENCE       "schedMonth in IETF Schedule MIB (RFC 3231)."
1168     DEFVAL          { any } -- any month
1169     ::= { powCalendarEntry 5 }
1170
1174  powCalendarDay OBJECT-TYPE
1175     SYNTAX           Integer32 (0..31)
1176     MAX-ACCESS      read-create
1177     STATUS          current
1178     DESCRIPTION    "The trigger day or zero (any) for this calendar policy on
1179                   this component (System or Subunit) on this Imaging System.
1180                   Usage: '1' is the first day of the month, '2' is the second
1181                   day of the month, etc."
1182     REFERENCE       "schedDay in IETF Schedule MIB (RFC 3231)."
1183     DEFVAL          { 0 } -- any day of month
1184     ::= { powCalendarEntry 6 }
powCalendarHour OBJECT-TYPE
SYNTAX Integer32 (0..23)
MAX-ACCESS read-create
STATUS current
DESCRIPTION "The trigger hour for this calendar policy on this component (System or Subunit) on this Imaging System.
Usage: '0' is the first hour of the day (12:00-12:59am), '1' is the second hour of the day (1:00-1:59 am), etc. Exactly midnight (i.e., 12:00am) is specified by a value of zero for powCalendarHour and a value of zero for powCalendarMinute."
REFERENCE "schedHour in IETF Schedule MIB (RFC 3231)."
DEFVAL { 0 } -- first hour of the day
::= { powCalendarEntry 7 }

powCalendarMinute OBJECT-TYPE
SYNTAX Integer32 (0..59)
MAX-ACCESS read-create
STATUS current
DESCRIPTION "The trigger minute for this calendar policy on this component (System or Subunit) on this Imaging System.
Usage: '0' is the first minute of the hour (e.g., 7:00pm), '1' is the second minute of the hour (e.g., 7:01pm), etc. Exactly at the hour (e.g., 7:00pm) is specified by a value of zero for powCalendarMinute."
REFERENCE "schedMinute in IETF Schedule MIB (RFC 3231)."
DEFVAL { 0 } -- first minute of the hour
::= { powCalendarEntry 8 }

powCalendarRowStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION "The row status management object for this calendar policy on this component (System or Subunit) on this Imaging System."
REFERENCE "schedRowStatus in IETF Schedule MIB (RFC 3231)."
DEFVAL { notInService } -- inactive
::= { powCalendarEntry 9 }

--
-- Event Group

powEvent OBJECT IDENTIFIER ::= { powMIBObjects 9 }

powEventTable OBJECT-TYPE
SYNTAX SEQUENCE OF PowEventEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A table of the configured event policies for the monitored components (System or Subunit) on this Imaging System."
::= { powEvent 1 }

powEventEntry OBJECT-TYPE
SYNTAX PowEventEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An entry for one configured event policy for one monitored component (System or Subunit) on this Imaging System."
INDEX { powMonitorIndex,
powEventIndex } 
::= { powEventTable 1 }

PowEventEntry ::= SEQUENCE {
powEventIndex Integer32,
powEventRequestPowerState PowPowerStateTC,
powEventName DisplayString,
powEventRowStatus RowStatus
}

powEventIndex OBJECT-TYPE
SYNTAX Integer32 (1..2147483647)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Secondary key of this event policy for this component (System or Subunit) on this Imaging System.
Usage: Values of this object MUST be persistent across system reboots, except in the case of major system reconfigurations.
DEFVAL intentionally omitted - index object."
::= { powEventEntry 1 }

powEventRequestPowerState OBJECT-TYPE
SYNTAX PowPowerStateTC
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The requested target power state for this component (System or Subunit) on this Imaging System when this event policy is triggered."
REFERENCE
"Table 3 in section 7.3 in DMTF CIM Power Profile (DSP 1027);
powMonitorPowerState in this MIB;
powSupportCanRequestPowerState in this MIB;
powRequestPowerState in this MIB."
DEFVAL { unknown } -- unknown power state
::= { powEventEntry 2 }
powEventName OBJECT-TYPE
SYNTAX  DisplayString (SIZE(0..255))
MAX-ACCESS  read-create
STATUS  current
DESCRIPTION
  "The trigger event name for this event policy on this component
  (System or Subunit) on this Imaging System, specified as a
  visible US-ASCII string (ISO 646) that MUST NOT contain any
  US-ASCII control characters (0x00 to 0x1F inclusive, or 0x7F).

  For example: 'jam'.

  Usage: Conforming values MUST contain either:
  (a) the exact case-sensitive label (starting with a lowercase
      letter, 'a..z') of an enumerated value in the PrtAlertCodeTC
      textual convention in the IANA Printer MIB (e.g., 'jam'); or
  (b) a case-sensitive keyword (starting with an uppercase letter,
      'A..Z') vendor event name (e.g., 'AcmeCrackedHousing')."
REFERENCE
  "prtAlertCode in IETF Printer MIB (RFC 1759/3805);
  PrtAlertCodeTC in IANA Printer MIB (RFC 3805
  and http://www.iana.org/assignments/ianaprinter-mib)."
DEFVAL  { "" }  -- no event name
::= { powEventEntry 3 }
SYNTAX PowCounterEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An entry for the power transition counters for one monitored
component (System or Subunit) on this Imaging System."
INDEX { powMonitorIndex }
 ::= { powCounterTable 1 }

PowCounterEntry ::= SEQUENCE {
powCounterHibernateTransitions Counter32,
powCounterOnTransitions Counter32,
powCounterStandbyTransitions Counter32,
powCounterSuspendTransitions Counter32
}

powCounterHibernateTransitions OBJECT-TYPE
SYNTAX Counter32
UNITS "transitions"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Lifetime number of transitions into the Hibernate power state
of this component (System or Subunit).
DEFVAL intentionally omitted - counter object."
REFERENCE
"powMonitorPowerState and powLogPowerState in this MIB."
 ::= { powCounterEntry 1 }

powCounterOnTransitions OBJECT-TYPE
SYNTAX Counter32
UNITS "transitions"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Lifetime number of transitions into the On power state
of this component (System or Subunit).
DEFVAL intentionally omitted - counter object."
REFERENCE
"powMonitorPowerState and powLogPowerState in this MIB."
 ::= { powCounterEntry 2 }

powCounterStandbyTransitions OBJECT-TYPE
SYNTAX Counter32
UNITS "transitions"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Lifetime number of transitions into the Standby power state
of this component (System or Subunit).
DEFVAL intentionally omitted - counter object."
REFERENCE
"powMonitorPowerState and powLogPowerState in this MIB."
::= { powCounterEntry 3 }

powCounterSuspendTransitions OBJECT-TYPE
SYNTAX Counter32
UNITS "transitions"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Lifetime number of transitions into the Suspend power state
of this component (System or Subunit).
DEFVAL intentionally omitted - counter object."
REFERENCE
"powMonitorPowerState and powLogPowerState in this MIB."
::= { powCounterEntry 4 }

--
-- Meter Group
--

powMeter OBJECT IDENTIFIER ::= { powMIBObjects 11 }

powMeterTable OBJECT-TYPE
SYNTAX SEQUENCE OF PowMeterEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A table of the power consumption meters for the monitored
components (System or Subunit) on this Imaging System."
::= { powMeter 1 }

powMeterEntry OBJECT-TYPE
SYNTAX PowMeterEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An entry for the power consumption meters for one monitored
component (System or Subunit) on this Imaging System."
INDEX { powMonitorIndex }
::= { powMeterTable 1 }

PowMeterEntry ::= SEQUENCE {
  powMeterPowerMetersAreActual TruthValue,
powMeterPowerCurrentWatts Gauge32,
powMeterPowerPeakWatts Gauge32,
powMeterPowerCurrentMonthKWH Gauge32,
powMeterPowerPreviousMonthKWH Gauge32,
powMeterPowerLifetimeKWH Counter32
}

powMeterPowerMetersAreActual OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS: read-only
STATUS: current

"Specifies whether power consumption meters on this component (System or Subunit) are based on actual measurement (true) or software estimation (false)."

REFERENCE
"powGeneralPowerUsageIsRMSWatts and powMeterTable in this MIB."

DEFVAL { false } -- software estimation
::= { powMeterEntry 1 }

powMeterPowerCurrentWatts OBJECT-TYPE
SYNTAX: Gauge32
UNITS: "watts"
MAX-ACCESS: read-only
STATUS: current

"Current power consumption in watts of this System or Subunit or zero (for less than one watt, i.e., nominal none).

DEFVAL intentionally omitted - gauge object."

REFERENCE
"powMeterPowerMetersAreActual in this MIB."
::= { powMeterEntry 2 }

powMeterPowerPeakWatts OBJECT-TYPE
SYNTAX: Gauge32
UNITS: "watts"
MAX-ACCESS: read-only
STATUS: current

"Peak power consumption in watts of this System or Subunit or zero (for less than one watt, i.e., nominal none), since last reboot of this Imaging System.

DEFVAL intentionally omitted - gauge object."

REFERENCE
"powMeterPowerMetersAreActual in this MIB."
::= { powMeterEntry 3 }

powMeterPowerCurrentMonthKWH OBJECT-TYPE
SYNTAX: Gauge32
UNITS: "kilowatthours"
MAX-ACCESS: read-only
STATUS: current

"Current month power consumption in KWH of this System or Subunit or zero (for less than one watt, i.e., nominal none).

Usage: Because it specifies the *current* month's power consumption, the value of this object will change rapidly.

DEFVAL intentionally omitted - gauge object."

REFERENCE
"powMeterPowerMetersAreActual in this MIB."
 ::= { powMeterEntry 4 }

powMeterPowerPreviousMonthKWH OBJECT-TYPE
SYNTAX Gauge32
UNITS "kilowatthours"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Previous month power consumption in KWH of this System or Subunit or zero (for less than one watt, i.e., nominal none).

Usage: Because it specifies the *previous* month's power consumption, the value of this object will be stable and may be read on any day of the current month (for reliable accounting).

DEFVAL intentionally omitted - gauge object."
REFERENCE
"powMeterPowerMetersAreActual in this MIB."
 ::= { powMeterEntry 5 }

powMeterPowerLifetimeKWH OBJECT-TYPE
SYNTAX Counter32
UNITS "kilowatthours"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Lifetime power consumption in KWH of this System or Subunit or zero (for less than one watt, i.e., nominal none).

DEFVAL intentionally omitted - counter object."
REFERENCE
"powMeterPowerMetersAreActual in this MIB."
 ::= { powMeterEntry 6 }

--
-- Power Trap Group

--

powPowerV2Trap NOTIFICATION-TYPE
OBJECTS { powGeneralNaturalLanguage, powLogPowerState, 
powLogPowerStateMessage, powLogPowerStateDateAndTime, 
powLogComponentType, powLogComponentReferenceId }
STATUS current
DESCRIPTION
"This trap is sent (to registered or configured notification receivers) when a new power state transition is added to the 'powLogTable'.

Note: The value of the powLogIndex index object is included in the instance qualifiers of the explicit variable bindings in this trap. The value of sysUpTime in IETF MIB-II (RFC 1213) is always included in SNMP traps, per RFC 3416."
 ::= { powMIBNotifications 1 }
powPowerMIBCompliance  MODULE-COMPLIANCE

  STATUS  current

  DESCRIPTION
  "The compliance statement for SNMP Agents that implement this
  Imaging System Power MIB."

  MODULE -- this module

  MANDATORY-GROUPS { powGeneralGroup, powMonitorGroup, powLogGroup }

GROUP  powSupportGroup

  DESCRIPTION
  "Support group - columnar capabilities objects.

  An Imaging System MAY implement the Support group, for
  power capabilities."

GROUP  powTransitionGroup

  DESCRIPTION
  "Transition group - columnar capabilities objects.

  An Imaging System MAY implement the Transition group, for
  power capabilities."

GROUP  powRequestGroup

  DESCRIPTION
  "Request group - columnar objects for settings.

  An Imaging System MAY implement the Request group, for
  power state settings."

GROUP  powTimeoutGroup

  DESCRIPTION
  "Timeout group - columnar objects for settings.

  An Imaging System SHOULD implement the Timeout group, for
  power policy settings."

GROUP  powCalendarGroup

  DESCRIPTION
  "Calendar group - columnar objects for settings.

  An Imaging System MAY implement the Calendar group, for
  power policy settings."

GROUP  powEventGroup

  DESCRIPTION
  "Event group - columnar objects for settings.

  An Imaging System MAY implement the Event group, for
  power policy settings."
GROUP powCounterGroup
DESCRIPTION
"Counter group - columnar objects for status.

An Imaging System MAY implement the Counter group, for status."

GROUP powMeterGroup
DESCRIPTION
"Meter group - columnar objects for status.

An Imaging System MAY implement the Meter group, for status."

GROUP powPowerTrapGroup
DESCRIPTION
"Power Trap group - notifications.

An Imaging System SHOULD implement the Power Trap group."

OBJECT powGeneralNaturalLanguage
DESCRIPTION
"If this object is empty, then the natural language for
all localized text string objects defined in this MIB MUST
be 'en-US' (US English)."

OBJECT powGeneralCanRequestPowerStates
SYNTAX DisplayString (SIZE(0..63))
DESCRIPTION
"Imaging Systems MUST support at least 63 octets string length."

OBJECT powMonitorPowerState
SYNTAX INTEGER {
   on(20),
   offSoft(80)
}
DESCRIPTION
"Imaging Systems MUST implement the 'on' and 'offSoft' values.
Imaging Systems SHOULD implement the 'standby', 'suspend', and
'hibernate' values.
Imaging Systems MUST support standard power states (e.g.,
'standby') whenever they support vendor extensions (e.g.,
'standbyVendor1')."

OBJECT powMonitorPowerStateMessage
SYNTAX SnmpAdminString (SIZE(0..63))
DESCRIPTION
"Imaging Systems MUST support at least 63 octets string length."

OBJECT powMonitorComponentType
SYNTAX INTEGER {
   system(5)
}
DESCRIPTION
"Imaging Systems MUST implement the 'system' value.
Imaging Systems SHOULD implement the 'scanner' and 'marker' values, if these components are present.

**OBJECT** powLogPowerState

**SYNTAX** INTEGER {
  on(20),
  offSoft(80)
}

**DESCRIPTION**
"Imaging Systems MUST implement the 'on' and 'offSoft' values. Imaging Systems SHOULD implement the 'standby', 'suspend', and 'hibernate' values. Imaging Systems MUST support standard power states (e.g., 'standby') whenever they support vendor extensions (e.g., 'standbyVendor1'). Imaging Systems SHOULD only add entries to the powLogTable when a power state transition occurs (i.e., successive rows in the powLogTable for the same component SHOULD NOT have the same power state)."

**OBJECT** powLogPowerStateMessage

**SYNTAX** SnmpAdminString (SIZE(0..63))

**DESCRIPTION**
"Imaging Systems MUST support at least 63 octets string length."

**OBJECT** powLogComponentType

**SYNTAX** INTEGER {
  system(5)
}

**DESCRIPTION**
"Imaging Systems MUST implement the 'system' value. Imaging Systems SHOULD implement the 'scanner' and 'marker' values, if these components are present."

**OBJECT** powSupportCanUseInterfaces

**SYNTAX** DisplayString (SIZE(0..63))

**DESCRIPTION**
"Imaging Systems MUST support at least 63 octets string length."

**OBJECT** powTimeoutRequestPowerState

**MIN-ACCESS** read-only

**DESCRIPTION**
"Imaging Systems MAY implement this object as read-only."

**OBJECT** powTimeoutStartPowerState

**MIN-ACCESS** read-only

**DESCRIPTION**
"Imaging Systems MAY implement this object as read-only."

**OBJECT** powTimeoutPredicate

**MIN-ACCESS** read-only

**DESCRIPTION**
"Imaging Systems MAY implement this object as read-only."
OBJECT powTimeoutSeconds
MIN-ACCESS read-only
DESCRIPTION
"Imaging Systems MAY implement this object as read-only."

OBJECT powTimeoutRowStatus
SYNTAX INTEGER {
  active(1),
  notInService(2)
}
MIN-ACCESS read-only
DESCRIPTION
"Imaging Systems MUST implement 'active' and 'notInService'.
Imaging Systems MAY implement this object as read-only."

OBJECT powCalendarRequestPowerState
MIN-ACCESS read-only
DESCRIPTION
"Imaging Systems MAY implement this object as read-only."

OBJECT powCalendarRunOnce
MIN-ACCESS read-only
DESCRIPTION
"Imaging Systems MAY implement this object as read-only."

OBJECT powCalendarDayOfWeek
MIN-ACCESS read-only
DESCRIPTION
"Imaging Systems MAY implement this object as read-only."

OBJECT powCalendarMonth
MIN-ACCESS read-only
DESCRIPTION
"Imaging Systems MAY implement this object as read-only."

OBJECT powCalendarDay
MIN-ACCESS read-only
DESCRIPTION
"Imaging Systems MAY implement this object as read-only."

OBJECT powCalendarHour
MIN-ACCESS read-only
DESCRIPTION
"Imaging Systems MAY implement this object as read-only."

OBJECT powCalendarMinute
MIN-ACCESS read-only
DESCRIPTION
"Imaging Systems MAY implement this object as read-only."

OBJECT powCalendarRowStatus
SYNTAX INTEGER {
  active(1),
  notInService(2)
"Imaging Systems MUST implement 'active' and 'notInService'.
Imaging Systems MAY implement this object as read-only."

OBJECT  powEventRequestPowerState
MIN-ACCESS  read-only
DESCRIPTION
"Imaging Systems MAY implement this object as read-only."

OBJECT  powEventName
SYNTAX  DisplayString  (SIZE(0..63))
MIN-ACCESS  read-only
DESCRIPTION
"Imaging Systems MUST support at least 63 octets string length.
Imaging Systems MAY implement this object as read-only."

OBJECT  powEventRowStatus
SYNTAX  INTEGER  {
  active(1),
  notInService(2)
}
MIN-ACCESS  read-only
DESCRIPTION
"Imaging Systems MUST implement 'active' and 'notInService'.
Imaging Systems MAY implement this object as read-only."

::=  {  powMIBConformance  1  }

--  Conformance Groups
--

powGeneralGroup  OBJECT-GROUP
OBJECTS  {
  powGeneralNaturalLanguage,
  powGeneralPolicyMaxAccess,
  powGeneralPowerUsageIsRMSWatts,
  powGeneralCanRequestPowerStates
}
STATUS  current
DESCRIPTION
"General group - scalar status objects."
::=  {  powMIBObjectGroups  1  }

powMonitorGroup  OBJECT-GROUP
OBJECTS  {
  powMonitorPowerState,
  powMonitorPowerStateMessage,
  powMonitorComponentType,
  powMonitorComponentReferenceId
}
STATUS  current
DESCRIPTION
"Monitor group - columnar status objects."
::= { powMIBObjectGroups 2 }

powLogGroup OBJECT-GROUP
OBJECTS {
powLogPowerState, 
powLogPowerStateMessage, 
powLogPowerStateDateAndTime, 
powLogComponentType, 
powLogComponentReferenceId
}
STATUS current
DESCRIPTION
"Log group - columnar status objects."
::= { powMIBObjectGroups 3 }

powSupportGroup OBJECT-GROUP
OBJECTS {
powSupportPowerInactiveWatts, 
powSupportPowerActiveWatts, 
powSupportCanAcceptJobs, 
powSupportCanProcessJobs, 
powSupportCanRequestPowerState, 
powSupportCanUseInterfaces, 
powSupportPowerPeakWatts
}
STATUS current
DESCRIPTION
"Support group - columnar capabilities objects."
::= { powMIBObjectGroups 4 }

powTransitionGroup OBJECT-GROUP
OBJECTS {
powTransitionStateChangeSeconds
}
STATUS current
DESCRIPTION
"Transition group - columnar capabilities objects."
::= { powMIBObjectGroups 5 }

powRequestGroup OBJECT-GROUP
OBJECTS {
powRequestPowerState, 
powRequestStatus
}
STATUS current
DESCRIPTION
"Request group - columnar objects for settings."
::= { powMIBObjectGroups 6 }

powTimeoutGroup OBJECT-GROUP
OBJECTS {
powTimeoutRequestPowerState,
powTimeoutStartPowerState,
powTimeoutPredicate,
powTimeoutSeconds,
powTimeoutRowStatus

}  
STATUS   current
DESCRIPTION
"Timeout group - columnar objects for settings."
::= { powMIBObjectGroups 7 }
powCalendarGroup OBJECT-GROUP
OBJECTS {  
powCalendarRequestPowerState,
powCalendarRunOnce,
powCalendarDayOfWeek,
powCalendarMonth,
powCalendarDay,
powCalendarHour,
powCalendarMinute,
powCalendarRowStatus
}  
STATUS   current
DESCRIPTION
"Calendar group - columnar objects for settings."
::= { powMIBObjectGroups 8 }
powEventGroup OBJECT-GROUP
OBJECTS {  
powEventRequestPowerState,
powEventName,
powEventRowStatus
}  
STATUS   current
DESCRIPTION
"Event group - columnar objects for settings."
::= { powMIBObjectGroups 9 }
powCounterGroup OBJECT-GROUP
OBJECTS {  
powCounterHibernateTransitions,
powCounterOnTransitions,
powCounterStandbyTransitions,
powCounterSuspendTransitions
}  
STATUS   current
DESCRIPTION
"Counter group - columnar objects for status."
::= { powMIBObjectGroups 10 }
powMeterGroup OBJECT-GROUP
OBJECTS {  
powMeterPowerMetersAreActual,
powMeterPowerCurrentWatts,
powMeterPowerPeakWatts,
powMeterPowerCurrentMonthKWH,
powMeterPowerPreviousMonthKWH,
powMeterPowerLifetimeKWH

}  

STATUS   current

DESCRIPTION

"Meter group - columnar objects for status."

::= { powMIBObjectGroups 11 }

powPowerTrapGroup NOTIFICATION-GROUP

NOTIFICATIONS { powPowerV2Trap }

STATUS   current

DESCRIPTION

"Power Trap group - notifications."

::= { powMIBNotificationGroups 1 }

END