



Samsung Prototype and PWG Last Call Comments on PWG Imaging System Power MIB

**Printer Working Group
Meeting in Lexington, KY
19 October 2010**

Prototype of PWG Power MIB

- Prototype implemented on Samsung CLX-9350
- Phase 1 – August – 3 object groups
 - **Required – General (features), Monitor (current), Log**
- Phase 2 – September – 3 object groups
 - **Recommended – Support and Transition (states)**
 - **Optional – Timeout (policies) – now Recommended**
- Out-of-Scope – 5 object groups not implemented
 - **Optional – Request, Calendar, Event, Counter, Meter***

Note: *Raised to Recommended per MPSA feedback, but now proposed for Optional per Samsung internal review

Phase 1 Prototype – Summary

- **Prototype Coverage – Good**
 - **All Required object groups**
- **Prototype Structure – Excellent**
 - **Accuracy of table indexing**
- **Prototype Content – Excellent**
 - **Accuracy of object values**
- **Ease of implementation – Good**
 - **Questions about structure and object usage**

Phase 2 Prototype – Summary

- **Prototype Coverage – Excellent**
 - **All Required and Recommended groups**
- **Prototype Structure – Excellent**
 - **Accuracy of table indexing**
- **Prototype Content – Excellent**
 - **Accuracy of object values**
- **Ease of implementation – Good**
 - **Questions about structure and object usage**

Samsung Prototype Issues

● Clarifications needed

- powGeneralNaturalLanguage – change MAX-ACCESS to ‘read-only’
- powMonitorPowerState – use standard states first, e.g., standby(30)
- powMonitorComponentType/Referenceld – need more usage info
- powLogPowerState – show only state *transitions* (no heartbeats)
- powSupportTable – show only Stable states (not Transitional states)

● Additions needed

- powGeneralSupportedPowerStates (NEW) – simple list of *all* states
- powGeneralMaxCounterRecords (NEW) – table limit object
- powGeneralMaxMeterRecords (NEW) – table limit object
- powSupportPowerPeakWatts (NEW) – per MPSA feedback
- GROUP macros for Counter and Meter (NEW)
- OBJECT macros for MIN-ACCESS of ‘read-only’ (NEW)

Samsung Last Call Comments

● Object deletions requested

- powGeneralMaxXxxRecords – delete 10 currently REQUIRED objects – useless table limits that inflate cost of implementation

● Conformance changes requested

- powMonitorGroup – change all Subunits to OPTIONAL – add a Note explaining why Scanner/Marker are of use for power management
- powSupportGroup – change from RECOMMENDED to OPTIONAL – list of states (main feature) is new powGeneralSupportedPowerStates
- powTransitionGroup – change from RECOMMENDED to OPTIONAL – transition times are nominal and of limited use for power management
- powMeterGroup – change from RECOMMENDED to OPTIONAL – software meters are coarse and of limited use for power management