

Re Comment # 242 – aMPDActualPower

Current Text

aMPSEActualPower

An integer value indicating present (actual) power being supplied by the MPSE as measured at the MPI in milliwatts. The behavior is undefined if the state of aMPSEPowerState is anything other than powering. The sampling frequency and averaging is vendor-defined.;

aMPDActualPower

An integer value indicating present (actual) power being supplied to the MPD as measured at the MPI in milliwatts. It reports the value 0 if the value of aMPDPowerState is not powered. The sampling frequency and averaging is vendor-defined.;

Comment:

aMPDActualPower - this requires a PD to measure its power, this is a big requirement to place on some of the PDs targeted by this standard. I see we say the PD reports 0 if the MPI is not powered. What does an MPD report if it doesn't support power measurement?

SuggestedRemedy

Add a value that designates that the MPD doesn't support this feature.

"An MPD that does not support measuring MPI power reports 1 mW."

Response

PROPOSED ACCEPT IN PRINCIPLE.

Add to the end of line 11, "An MPD that does not support measuring MPI power reports 1 milliwatt."

My Response

I'm not happy about using 1mW as a special value. Add "Capabilities" attributes to report if the MPSE/MPD can measure power and report 0 if not. Also, it's not clear that "powering" and "powered" refer to defined states. Below I propose changes to address this.

Changed text is in *yellow italics*, new text is in green underline.

Replace

aMPD/MPSEPowerState is not powered/ing.

With

aMPD/MPSEPowerState is not *'powered/ing'*.

Change aMPSEActualPower, aMPSEPowerAccuracy and aMPSECumulativeEnergy "BEHAVIOUR DEFINED AS" descriptions as follows:

30.17.2.1.8 aMPSEActualPower

ATTRIBUTE

APPROPRIATE SYNTAX:

INTEGER

BEHAVIOUR DEFINED AS:

An integer value indicating present (actual) power being supplied by the MPSE as measured at the MPI in milliwatts. It reports the 0 if the value of aMPSEPowerState *is not 'powering'*, or if the MPSE does not indicate support for POWER-MEASUREMENT in aMPSECapabilities. The sampling frequency and averaging is vendor-defined.;

30.17.1.1.8 aMPSEPowerAccuracy

ATTRIBUTE

APPROPRIATE SYNTAX:

INTEGER

BEHAVIOUR DEFINED AS:

An integer value indicating the accuracy associated with aMPSEActualPower in milliwatts. It reports 0 if the MPSE does not indicate support for POWER-MEASUREMENT in aMPSECapabilities.;

30.17.1.1.9 aMPSECumulativeEnergy

ATTRIBUTE

APPROPRIATE SYNTAX:

Generalized nonresettable counter.

BEHAVIOUR DEFINED AS:

A count of the cumulative energy supplied by the MPSE as measured at the MDI in kilojoules. It reports 0 if the MPSE does not indicate support for POWER-MEASUREMENT in aMPSECapabilities.;

Add the following:

30.17.2.1.10 aMPSECapabilities

ATTRIBUTE

APPROPRIATE SYNTAX:

A SEQUENCE that meets the requirements of the description below:

POWER-MEASUREMENT MPSE implements power measurement

BEHAVIOUR DEFINED AS:

This indicates the capabilities of the MPD.;

Change aMPDActualPower, aMPDPowerAccuracy and aMPDCumulativeEnergy "BEHAVIOUR DEFINED AS" descriptions as follows:

30.17.2.1.8 aMPDActualPower

An integer value indicating present (actual) power being supplied to the MPD as measured at the MPI in milliwatts. It reports the value 0 if the value of aMPDPowerState *is not 'powered'*, or if the MPD does not indicate support for POWER-MEASUREMENT in aMPDCapabilities.

The sampling frequency and averaging is vendor-defined.;

30.17.2.1.9 aMPPDPowerAccuracy

ATTRIBUTE

APPROPRIATE SYNTAX:

INTEGER

BEHAVIOUR DEFINED AS:

An integer value indicating the accuracy associated with aMPDActualPower in milliwatts. It reports 0 if the MPD does not indicate support for POWER-MEASUREMENT in aMPDCapabilities.;

30.17.2.1.10 aMPDCumulativeEnergy

ATTRIBUTE

APPROPRIATE SYNTAX:

Generalized nonresettable counter.

BEHAVIOUR DEFINED AS:

A count of the cumulative energy supplied by the MPD as measured at the MDI in kilojoules.

It reports 0 if the MPD does not indicate support for POWER-MEASUREMENT in aMPDCapabilities.;

Add the following:

30.17.2.1.11 aMPDCapabilities

ATTRIBUTE

APPROPRIATE SYNTAX:

A SEQUENCE that meets the requirements of the description below:

POWER-MEASUREMENT MPD implements power measurement

BEHAVIOUR DEFINED AS:

This indicates the capabilities of the MPD.;