



IEEE P1722.1-REV New AECP AEM Control Types

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BAROMETRIC_PRESSURE

- A barometric pressure sensor source or sink
- any linear or array value type that provides sufficient range and resolution for the implementation
- In units of PASCALS

VENDOR_URL

- URL pointing to the Vendor's webpage
- CONTROL_UTF8 value type
- UNITLESS unit.

ENTITY_URL

- URL pointing to the product webpage
- CONTROL_UTF8 value type
- UNITLESS unit.

CONFIGURATION_URL

- URL pointing to the configuration page for the Entity (e.g. built in web server providing a config page)
- CONTROL_UTF8 value type
- UNITLESS unit.

OTHER_URL

- Generic URL whose use is context dependent (i.e. isn't a vendor, entity or configuration URL)
- CONTROL_UTF8 value type
- UNITLESS unit.

FAULT

- Indicates if an entity has what it considers to be a fault state
- Single LINEAR_UINT8 type with 2 possible settings 0, and 255 (a.k.a. a boolean)
- UNITLESS unit type

CONTROLLER_TARGET_ENTITY

- The Entity ID of the target for the commands of a control
- LINEAR_UINT64 type (it's an EUI-64)
- UNITLESS unit type

CONTROLLER_TARGET_OBJECT

- The object to which the controller targets the GET/SET_CONTROL commands
- 2 LINEAR_UINT16 type values (the descriptor_type and descriptor_index)
- UNITLESS unit type

LATENCY_COMPENSATION

- A delay control used for compensating for the different latencies through different devices (between the AVTP timing reference planes and the Jacks)
- any linear or array value type that provides sufficient range and resolution for the implementation
- Any of the TIME unit quantities

PORT_OPERATIONAL_STATUS

- Indicates if a port is operational for the devices intended purpose
- Single LINEAR_UINT8 type with 2 possible settings 0 (link down), and 255(link up)
- UNITLESS unit type
- Read only

PORT_MODE_OPTIONS/ PORT_MODE_STATUS

- Defines the physical speed/duplex and media type for a port
- SELECTOR_UINT16 value type
 - Enumerated list of media options
- UNITLESS unit type

GPTP_NEIGHBORPROPDELAYTHRESH

- The gPTP variables
 - `ieee8021AsPortDSNeighborPropDelayThreshHs`
 - `ieee8021AsPortDSNeighborPropDelayThreshMs`
 - `ieee8021AsPortDSNeighborPropDelayThreshLs`
- 3 `LINEAR_UINT32` value types
- Units are seconds set for 2^{-16} nanoseconds

GPTP_NEIGHBORRATERATIO

- gPTP ieee8021AsPortDSNeighborRateRatio
- Read Only
- Single LINEAR_INT32
- Units TBD

GPTP_INTERVALS

- gPTP message intervals
- Three LINEAR_INT8 values, range -128 to 127
- UNITLESS

BAUD_RATE

- Sets the Baud Rate of a serial stream
- SELECTOR_UINT32 value
- Units of BITS_PER_SEC

SERIAL_BIT_WIDTH

- The number of bits in a byte
- SELECTOR_UINT8 value type
- Units of BITS

PARITY

- What parity is being used
- SELECTOR_UINT8 type with 3 possible settings None, Even and Odd
- UNITLESS unit type

STOP_BITS

- How many stop bits are in use
- Single LINEAR_UINT8 type with 3 possible settings 10, 15 and 20
- Unit type of BITS with multiplier of -1 (/10)