

Naming Convention

1.Dec.09
Revision 1.13

Rules for Epics process variables and objects names for the SPES project. This is a "living" document which will evolve as new devices are added.

Every records has to have a minimal description in the "desc" filed.

Each PV name will have the form:

<FacilitySystem><FunctionalApparatus><SubFunctApparatus><Counter>_<Object><Counter><SignalKind> <SignalName><SignalNameProperty><Counter>

Where:

Field	Letters	Usage	Examples
FacilitySystem	2	Mandatory	Ta: Target, Cy: Cyclotron, Se: Separator, Pa: Post Acc.
FunctionalApparatus	4	Mandatory	Defl: Deflector, Msep: MassSeparator, Btra: BeamTransport, Heat: Heating, Ioni: ionization Vacu: Vacuum Trip: Triplet Sour: Source
SubFunctApparatus	4	Optional	Surf: Surface, Lasr: Laser, Plas: Plasma Facp: FaradyCup Magn: Solenoid Magnet Oven: Oven ion source Extr: Extractor
Counter	2	Optional if SubFunctApparatus is declared, lowest number 01	01, 02, 03 ...99
Object	4	Optional	Bsps: Base PowerSupply, Hvps: HighVoltage PowerSupply, Hcps: High Current PowerSupply
Counter	2	Optional if Object is declared, lowest number 01	01, 02, 03 ...99
SignalKind	1	Mandatory	:: GraphicalUserInterface, -: internal variable, _: hard record
SignalName	4	Optional	Curr: current, Volt: voltage, VolP: voltage, VolN: voltage, Temp: temperature, Time: time duration, Powr: power Swit: switch Fowd: forward values between records (only fanout) Bits: raw value, bit o multy-bits Strg: string value Cond: conditions (ie calc, calcout records) Cons: some constant value Intr: some internal value Trig: trigger (ie seq, data fanout records)

SignalProperty	2	Optional	St: set, Rd: read, Th: threshold Rg: range Rs: reset Er: error
Counter	2	Optional, lowest number 01	01, 02, 03 ...99

**Note: 1. It is mandatory to use the full allowed length for the parts.
2. If you would like to add a new device or signal name to the dictionary, please send an e-mail around.**

Objects examples:

```
<Object> Bsps (description : basic power supply)
<state> Type: string vendor name, Swit on/off
```

```
TaBtra_Bsps01!Type
TaBtra_Bsps01!Swit
```

```
<Object> Hcps (description : high current power supply)
<state> Type: string vendor name, Swit on/off, CurrRd: analog current read, VoltRd: analog voltage read,
CurrSt: analog current set, VoltSt: analog voltage set
```

```
TaHeat_Hcps02!Type
TaIoniSurf_Hcps02_CurrRd
TaIoniSurf_Hcps02_VoltRd
TaIoniSurf_Hcps02_CurrSt
TaIoniSurf_Hcps02_VoltSt
```

```
<Object> Hvps (description : remote HV power supply control)
<state> Type: string vendor name, Swit: on/off, CurrRdN: analog positive voltage read, VolPSt: analog
positive voltage, VolNRd: analog negative voltage read, :VoltRd: voltage input gui, g:Swit: on/off gui
```

```
TaDefl_Hvps03_VolPRd
TaDefl_Hvps03_VolNSt
TaDefl_Hvps03_VolNRd
TaDefl_Hvps03:VoltRd
```

NB Please verify with Mauro/Giorgio the EPICS channel names.

Even the best naming standard has weakness. Most importantly is one person to be the name tzar and enforce the standard and interpret it when the odd cases come up. (B. Dalesio)

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