



# **SVT Voltages Alarm Handler**

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# The Current Status

- ▶ Use EPICS alarm handler (ALH) for alarm screens.
- ▶ A Python script has been developed to generate a configuration file for the SVT alarms from the SQLite database file.
  - ▶ The same file that is used for configuring SVT voltage IOC
- ▶ The detector hierarchy is read from the SQLite file and the alarm tree is generated.
  - ▶ If the SVT voltage hierarchy changes we do not need to modify the scripts.
- ▶ For each EPICS PV on the alarm tree will have a guidance and a button to launch a screen showing the parameters for that voltage channel.
  - ▶ Bryan McKinnon already has these screens.

```

 E SVT_Voltages ▶ G <-----> (108,0,0,0,70)
├──  bias ▶ G <----->
│   ├──  top G P <----->
│   └──  bot G P <----->
├──  E lv ▶ G <-----> (108,0,0,0,34)
│   ├──  E hyb ▶ G <-----> (108,0,0,0,0)
│   │   ├──  E top ▶ G <-----> (54,0,0,0,0)
│   │   └──  E bot ▶ G <-----> (54,0,0,0,0)
│   │       ├──  E 0 G <-----> (3,0,0,0,0)
│   │       ├──  E 1 G <-----> (3,0,0,0,0)
│   │       ├──  E 2 G <-----> (3,0,0,0,0)
│   │       ├──  E 3 G <-----> (3,0,0,0,0)
│   │       ├──  E 4 G <-----> (3,0,0,0,0)
│   │       ├──  E 5 G <-----> (3,0,0,0,0)
│   │       ├──  E 6 G <-----> (3,0,0,0,0)
│   │       ├──  E 7 G <-----> (3,0,0,0,0)
│   │       ├──  E 8 G <-----> (3,0,0,0,0)
│   │       ├──  E 9 G <-----> (3,0,0,0,0)
│   │       ├──  E 10 G <-----> (3,0,0,0,0)
│   │       ├──  E 11 G <-----> (3,0,0,0,0)
│   │       ├──  E 12 G <-----> (3,0,0,0,0)
│   │       ├──  E 13 G <-----> (3,0,0,0,0)
│   │       ├──  E 14 G <-----> (3,0,0,0,0)
│   │       ├──  E 15 G <-----> (3,0,0,0,0)
│   │       ├──  E 16 G <-----> (3,0,0,0,0)
│   │       └──  E 17 G <-----> (3,0,0,0,0)
│   └──  fe ▶ G P <----->

```

```

 SVT->bias->top->0 G P <----->
 SVT->bias->top->1 G P <----->
 SVT->bias->top->2 G P <----->
 SVT->bias->top->3 G P <----->
 SVT->bias->top->4 G P <----->
 SVT->bias->top->5 G P <----->
 SVT->bias->top->6 G P <----->
 SVT->bias->top->7 G P <----->
 SVT->bias->top->8 G P <----->
 SVT->bias->top->9 G P <----->
 SVT->bias->top->10 G P <----->
 SVT->bias->top->11 G P <----->
 SVT->bias->top->12 G P <----->
 SVT->bias->top->13 G P <----->
 SVT->bias->top->14 G P <----->
 SVT->bias->top->15 G P <----->
 SVT->bias->top->16 G P <----->
 SVT->bias->top->17 G P <----->

```

Execution Status: Local Active

Mask &lt;CDATL&gt;: &lt;Cancel,Disable,noAck,noackT,noLog&gt; H=noAck 1hr timer

Group Alarm Counts: (ERROR,INVALID,MAJOR,MINOR,NOALARM)

Channel Alarm Data: &lt;Status,Severity&gt;,&lt;Unack Severity&gt;

Filename: SVT\_alarm\_gen\_new.alhConfig

 SilenceOneHour SilenceCurrent

2 April 2014

Silence Forever: Off

ALH Beep Severity: MINOR