## **Design Tools**

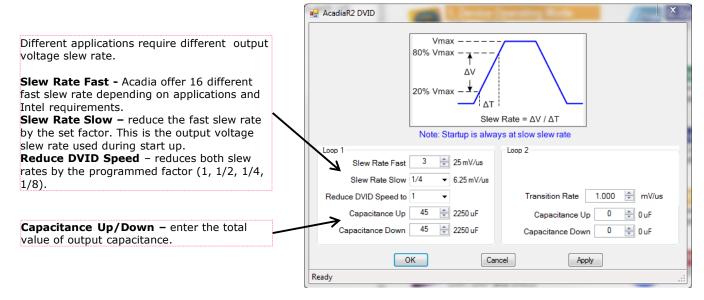
## Dynamic VID





This tool is used to adjust the voltage slew rate when there is a SVID command to change output voltage.

**Note:** These commands and options only applies when the controller is programmed to let SVID control output voltage level. PMBus operates differently.



When the output voltage is ramping to a higher voltage, voltage position errors can be caused by current feedback system due to inrush current through the output bulk capacitors. The DVID compensate for this error by using output capacitance to model the effects of variation in output voltage during a voltage ramp and compensate for this error.



## **Design Tools**

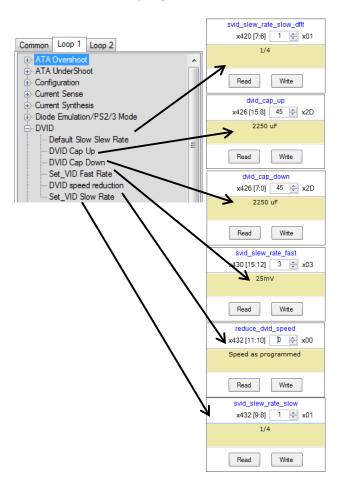
## Dynamic VID





The same functions from this tool can also be programmed in the I2C command tree list.

**Note:** These commands and options only applies when the controller is programmed to let SVID control output voltage level. PMBus operates differently.



In Loop 1 or Loop 2 Section under **DVID.** 

The exact functionalities of the **Dynamic VID** tool can be configured with this commands with the exception of **Default Slow Slew Rate.** 

**Default Slow Slew Rate** – when enable pin is deasserted, the slew rate is reset. This is the default slew rate in that situation, when the device turns back on.