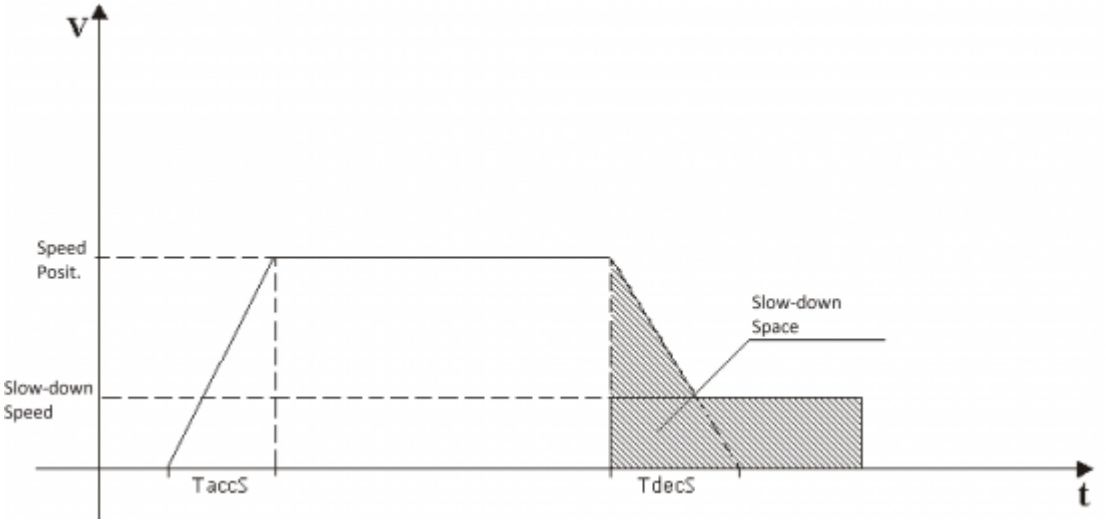
Sommario

DA10AnOopos

D = *Device(anpos-camming-camming2)*

A = *Action functions*

The DA10AnOopos function manages the analog output used in the case of an ON/OFF placement who needs analogue reference for the driver.
The function constructs the voltage profile based on acceleration and deceleration ramps set in function.
Ramps can be either trapezoidal or epicicloidal (“S” ramps).
For the accuracy of the positioning it is important that the transition from positioning speed to slowdown speed, ake place before the end of the space of slowdown (set in the OOPOS3 device)



IMPLEMENTATION

DA10AnOopos(ooAxis,eaDac,aslParam)

Parameters:

IN/OUT	VARIABLE TYPE	EXAMPLE NAME	DIM	
IN	OOPOS3	ooAXIS (INTDEVICE)	-	ON/OFF device that execute the placement
IN	EANPOS	eaDac (INTDEVICE)	-	Device that manages the analogue reference
IN	ARRSYS	aslParam[1]	L	Positioning speed (‰ of the max Vel)
IN	ARRSYS	aslParam[2]	L	Slowdown speed (‰ of the max Vel)
IN	ARRSYS	aslParam[3]	L	Acceleration time. Time necessary for the axis to accelerate from zero to maximum speed. (sec/100)
IN	ARRSYS	aslParam[4]	L	Deceleration time. Time necessary for the axis to decelerate from maximum speed to zero. (sec/100)
IN	ARRSYS	aslParam[5]	L	Ramps type used for the profile. 0 = Trapezoidal Acc and Dec 1 = Epicicloidal Acc and Dec 2 = Trapezoidal Acc / Epicicloidal Dec 3 = Epicicloidal Acc / Trapezoidal Dec
IN	ARRSYS	aslParam[6]	L	Tipo di Uscita analogica 0 = 0 ÷ 10 Volts 1 = -10 ÷ 10 Volts

Example

CONFIGURATION FILE

```
ARRSYS
aslParam    L    6
;-----------------------------------------
;  INTDEVICE Declaration
;-----------------------------------------
INTDEVICE
ooAxis  OOPOS3   002   2.CNT01   X   2.INP01  2.OUT01  2.OUT02  X.X   X.X   2.OUT03   X.X
eaDac1         EANPOS   002  2.CNT01    X      X.X    2.AN01
```

MODULE

```
MAIN:
```

```
aslParam[1] = 300       ;Positioning Vel = 30.0 %
aslParam[2] = 50        ;Slowdown Vel = 5.0 %
aslParam[3] = 100       ;Acceleration time = 1 sec
aslParam[4] = 150       ;Deceleration time = 1.5 sec
aslParam[5] = 0     ;Ramp type = Trapezoidal
aslParam[6] = 0     ;Analog output type = 0÷10V

DA10AnOopos(ooAxis,eaDac,aslParam)

WAIT 1
JUMP MAIN
```

Note

- This function should be placed in a module of the application to execute at every turn logical
- For the accuracy of the positioning it is important that the transition from positioning speed to slowdown speed, take place before the end of the space of slowdown (set in the OOPOS3 device). If this does not happen you must increase the size of slowdown or decreases the deceleration time.