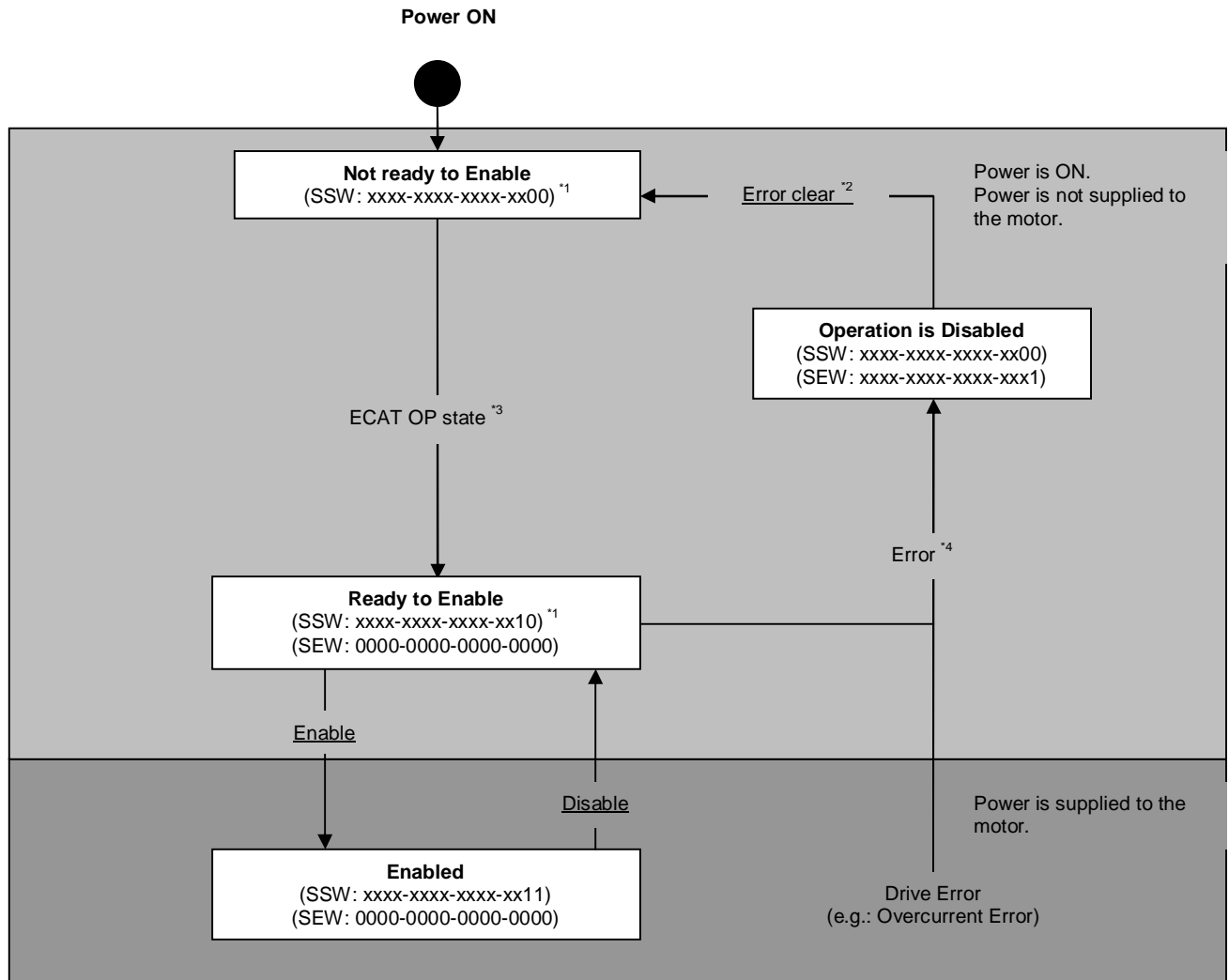# Device Control

The state machine is controlled through the Servo Control Word (SCW). The Servo Status word (SSW) shows the status of the state machine.

Power ON

- *1 – **S**ervo **S**tatus d**W**ord (SSW), the ServoRDY signal is depends on the Servo_Ready_Mode parameter
- *2 – Error clear, if the case of error is handled, need to set the Error clear bit of the Control word (SCW.ErrorClear->1)
- *3 – ECAT OP state, the EtherCAT state machine need to be in OPerational state
- *4 – Error, if an error occurs then the SSW.ServoEn bit will reset. If there is no problem with the ECAT communication, then the ECAT state machine will remain in OP state.

After the Power On the state machine goes automatically to "Ready to Enable" mode if the EtherCAT communication is working, and the ECAT state machine is in OPerational state.

Control Command (SCW) – 32bit [INT32]

Command	Bits of the Control Word (SCW)		
	Bit9	Bit1	Bit0
Enable	-	0->1	1->0
Disable	-	0	0
Error clear	0->1	-	-

Status Word (SSW) – 32bit [INT32]

Bit	Description	Note
0	Servo enabled	
1	Servo ready	Depends on the Servo_Ready_Mode parameter

Error word (SEW) – 32bit [INT32]

Bit	Description	Note
0	Servo Error occurs	

Note: For details, refer to F28335 Servo to NC 1 V0.18.doc