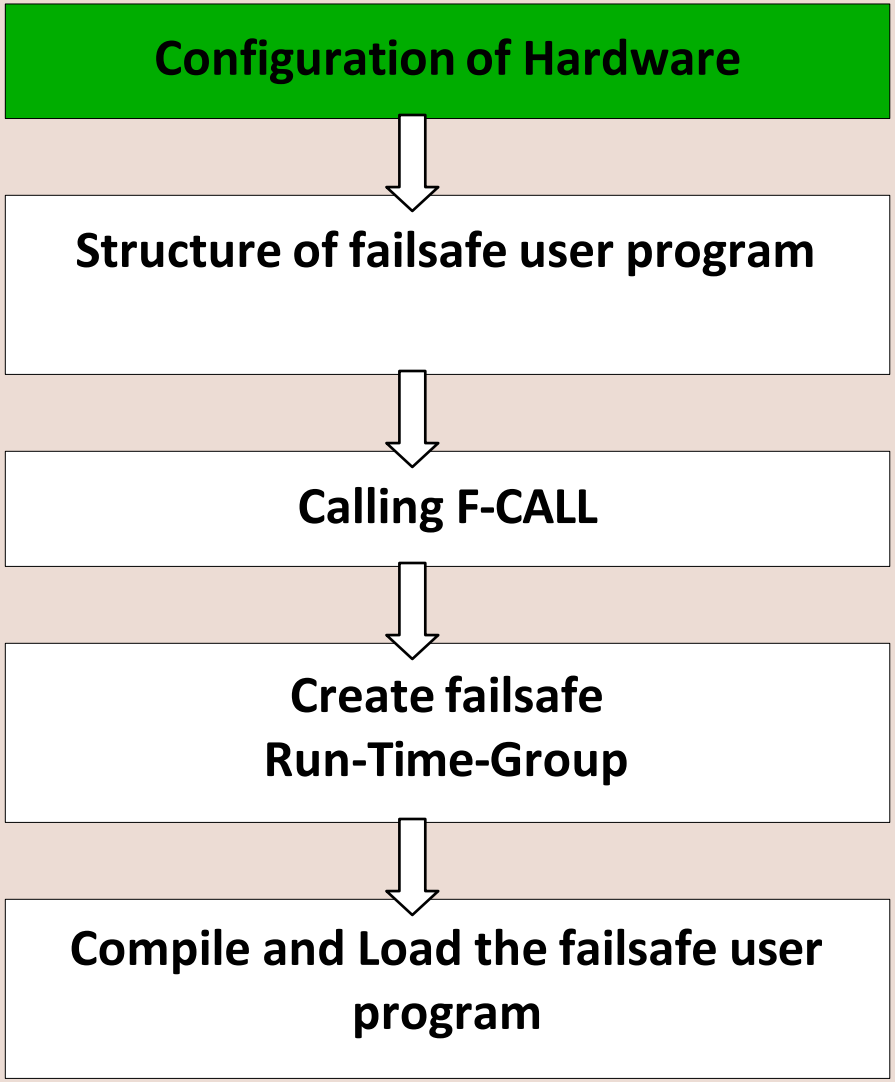
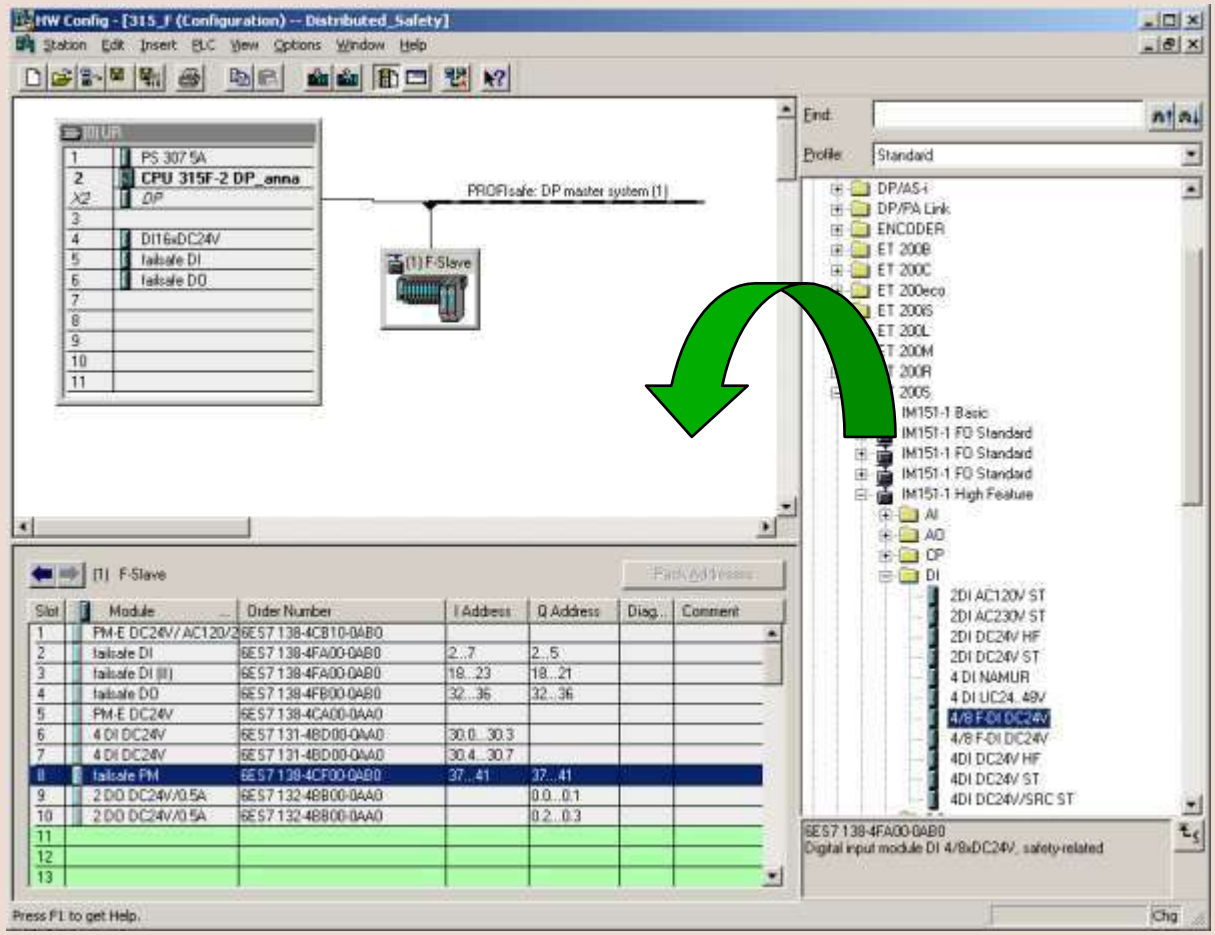
Distributed Safety Configuration and Programming



Engineering Hardware-Configuration:general procedure

- select the ponents in the catalog
- insert the selected components via Drag &Drop in the station
- open the properties of the modules via double click



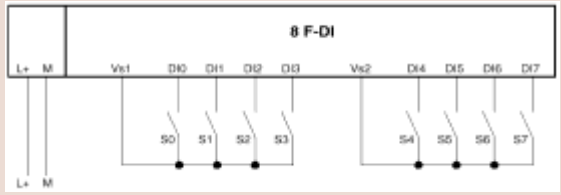
Distributed Safety Configuration Part I

Configuration of Hardware in HW-Config:

- Select Level of Protection with Password and enable the function CPU contains safety program
- ET 200S Station : The "Operation for Preset Configuration <> Actual Configuration" parameter controls the behavior during startup and when submodules are inserted or removed during operation (cyclic data exchange).
- set PROFIBUS DP Address on IM 151-1
- disable not-used channels of failsafe DI and DO modules
- set PROFIsafe Addresses at the failsafe modules
- save and compile Configuration
- download Configuration to F-CPU

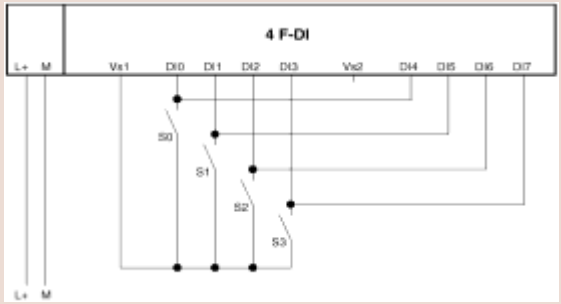
Wiring of Sensors

- **One 1-channel sensor is connected for each process signal (1oo1 evalutation)**

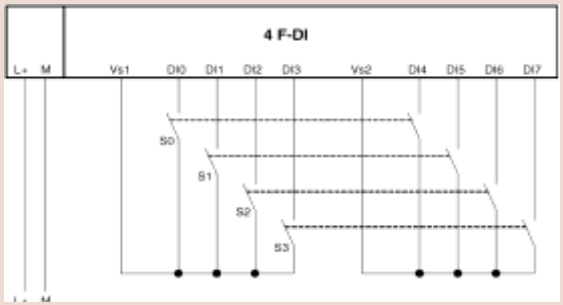


- **One channel of a sensor is connected to two inputs of F-module for each process signal**

(1oo2 evaluation)



- **Two channels of a 2-channel sensor are connected to two inputs of the F-module for each process signal (1oo2evaluation)**



- **Two channels of a non-equivalent sensor are connected nonequivalently to two inputs of the F-module for each process signal (1oo2 evaluation)**