Device Basic Data (GSD):

The Device Basic Data (GSD) file describes the characteristics of a Profibus-DP device in a standardised form.

Type Data (Siemens designation for GSD):

There are specific Type Data files for both the SIMATIC S5 (IM 308B) and the SIMATIC S5 (IM 308C). The Type Data file for the SIMATIC S7 is identical to the Type Data file for the SIMATIC S5 (IM 308C).

	GSD file	Type Data file
ACS300	ABB_ACS3.GSD	ABBACS3.200
ACS400	ABB_ACS4.GSD	ABBACS4.200
ACS600	ABB_ACS6.GSD	ABBACS6.200
ACF600	ABB_ACF6.GSD	ABBACF6.200
ACP600	ABB_ACP6.GSD	ABBACP6.200
DCS500	ABB_DCS5.GSD	ABBDCS5.200

The Type Data file has to be copied to the right directory so that it can be found by the configuration tool.

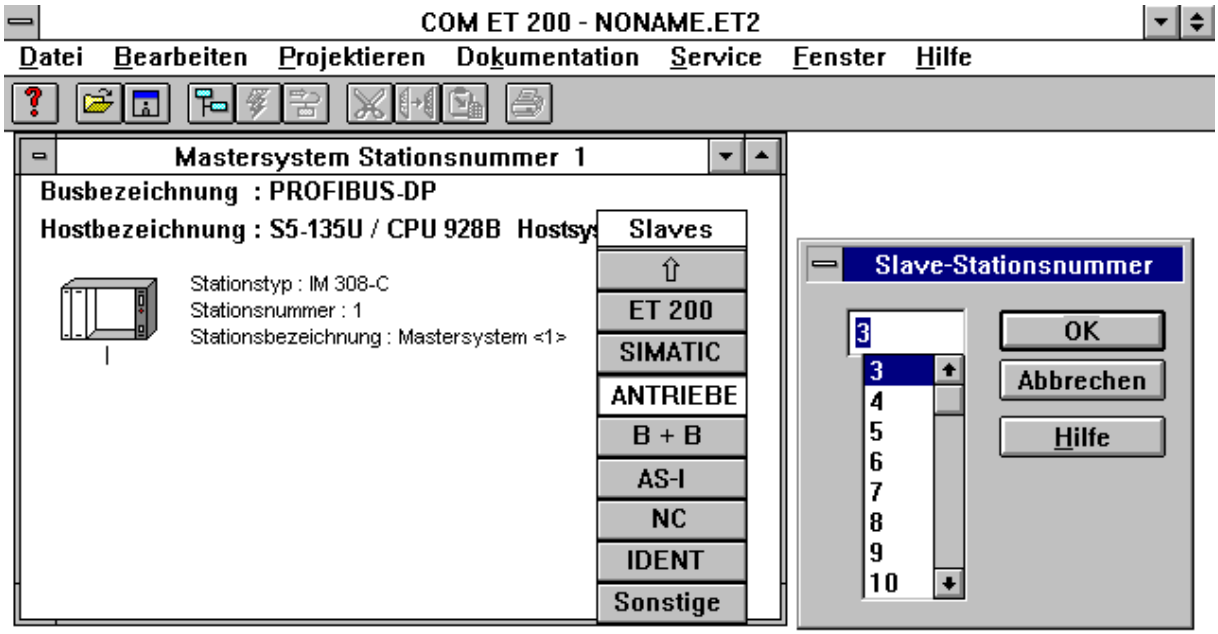
For S5 (IM 308B)	For S5 (IM 308C)	For S7
PROFIAC.200	ABBACS3X.200	ABB_ACS3.GSD
	ABBACS4X.200	ABB_ACS4.GSD
	ABBACS6X.200	ABB_ACS6.GSD
	ABBACF6X.200	ABB_ACF6.GSD
	ABBACP6X.200	ABB_ACP6.GSD
PROFIDC.200	ABBDCS5X.200	ABB_DCS5.GSD
Under directory :	**Under directory:**	**Under directory:**
C:\comet200	**C:\comwin\Typdat5x**	**C:\siemens\step7\s7data\GSD**

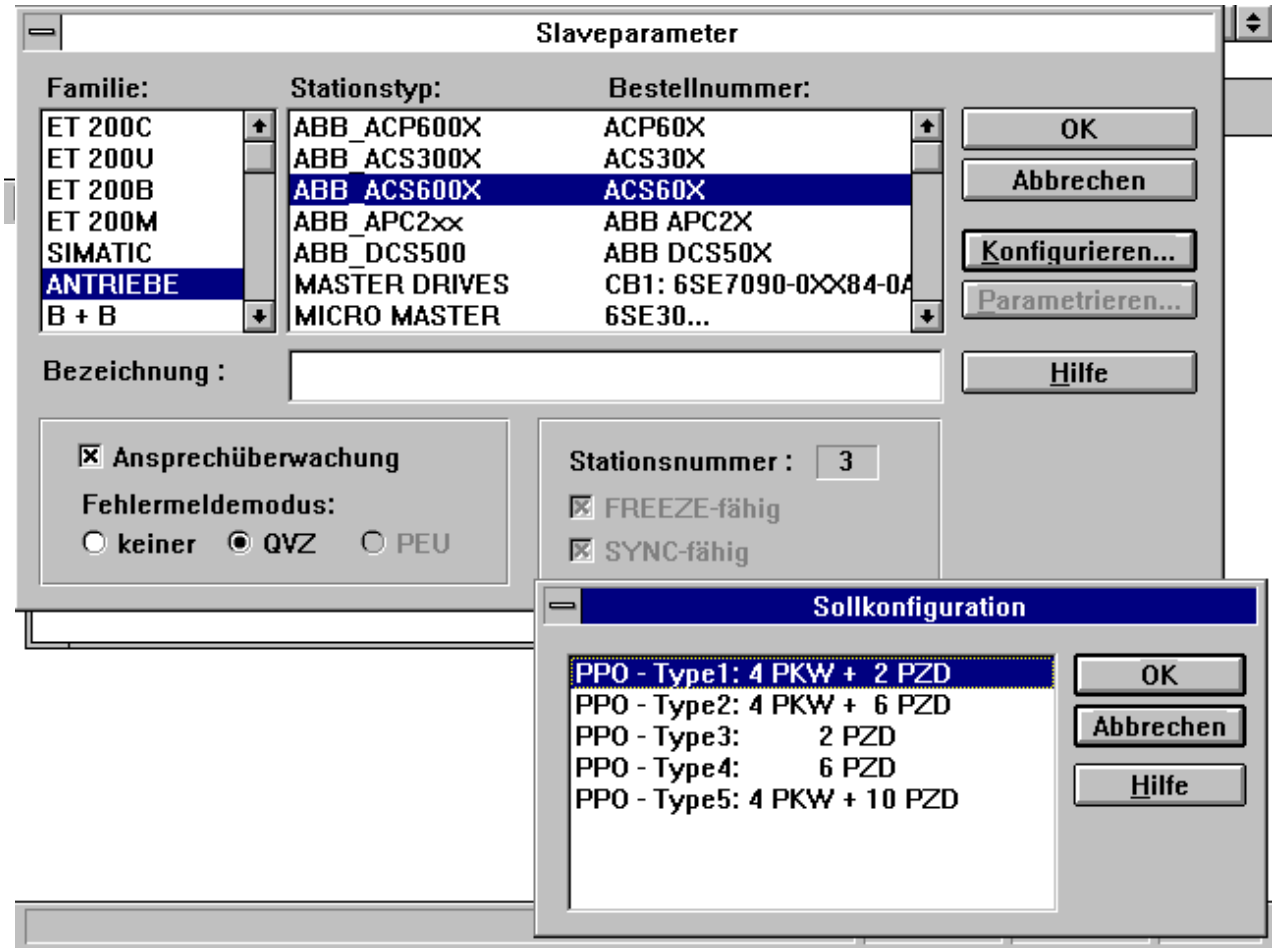
Configuration of a SIMATIC S5 (IM 308B):

PPO-Type	Siemens IM 308B	
	Field	Value
Type 1	0	4AX
	1	2AX
Type 2	0	4AX
	1	4AX
	2	2AX
Type 3	0	2AX
Type 4	0	4AX
	1	2AX
Type 5	0	4AX
	1	4AX
	2	4AX
	3	2AX

Configuration of a SIMATIC S5 (IM 308C):

The configuration is menu driven under COMWIN:





ABB_ACS6.GSD:

```
;==============================================================
; Profibus Device Database of :
;   ABB-NPBA-02 PROFIBUS slave
;   Model : ABB-ACS600-NPBA02
;   Description : PROFIBUS slave Device
; Language : English
; File Create Date : 03/11/1997
; Author : ABB Industrietechnik AG
;==============================================================

#Profibus_DP
Vendor_Name = "ABB-Industrietechnik"
Model_Name = " ABB-ACS600-NPBA02"
Revision = "B"
Ident_Number = 0x0815
Protocol_Ident = 0
Station_Type = 0
FMS_Supp = 0
Hardware_Release = "NPBA-02 "
Software_Release = "2.0"
GSD_Revision = "1.00*"
; Supported baudrates
9.6_supp = 1
19.2_supp = 1
93.75_supp = 1
187.5_supp = 1
500_supp = 1
1.5M_supp = 1
3M_supp = 0
6M_supp = 0
12M_supp = 0

; Maximum responder time for supported baudrates
MaxTsdr_9.6 = 60
MaxTsdr_19.2 = 60
MaxTsdr_93.75 = 60
MaxTsdr_187.5 =60
MaxTsdr_500 = 100
MaxTsdr_1.5M = 150

; Supported hardware features
Redundancy = 0
Repeater_Ctrl_Sig = 0
24V_Pins = 0

; Supported DP features

Freeze_Mode_Supp = 1
Sync_Mode_Supp = 1
Auto_Baud_Supp = 1
Set_Slave_Add_Supp = 0
User_Prm_Data_Len = 0

; Maximum polling frequency
Min_Slave_Intervall = 40
Modular_Station = 1
Max_Module = 3
```

```
Max_Input_Len = 32
Max_Output_Len = 32
Max_Data_Len = 64

; Definition of all available physical modules
; Module ’PPO-01’
Module = "PPO-01" 0xF3, 0xF1
EndModule

; Module ’PPO-02’
Module = "PPO-02" 0xF3, 0xF5
EndModule

; Module ’PPO-03’
Module = "PPO-03" 0xF1
EndModule

; Module ’PPO-04’
Module = "PPO-04" 0xF5
EndModule

; Module ’PPO-05’
Module = "PPO-05" 0xF3, 0xF9
EndModule
```