WinKFPT 5.1

10.2
    10.2.1.   WinKFPT
    10.2.2
    10.2.3
    10.2.4

1 _____

1.1   **Online** _____

-                  .

WinKFPT.

1.2 _____

:

2	, , WinKFPT.
3	, , WinKFPT.
4 WinKFPT	WinKFPT. .
5 WinKFPT	(5-6) WinKFPT WinKFPT
6 WinKFPT	
7	flash-
8	flash-
9	
10	

1.3 _____

:

DEFAULT.INI	
"Import file sets"	.
12345	,
"OK"	, , ,
<<ECU not responding>>	

<u>\<Configuration\></u>	
"<u>Operating modes</u>"	

2

2.1 About WinKFPT

WinKFPT   flash-   (   )   ,
                  .

WinKFPT

                             , WinKFPT
                      BMW,
    .

WinKFPT –   ,   COAPI
                         (BSU),
    (,   ,   ).
                        .

         4.6.0,   /   COAPI
                ,
           .

2.2   WinKFPT

2.2.1

               ,   WinKFPT,
          ,   EDIABAS

.2.2.2

WinKFPT   :
              _

Dialog mode	, .
Batch mode	.
Compile mode	PABD- (XXX.IPS). PABD(XXX.IPO) "<root>\sgdat".

2-1: **WinKFPT**

2.2.3

flash- ,
WinKFPT.

::

1. ( ) (ZUSB No.),

, (ZUSB No.),
(VIN) (UIF)
flash- .

2.

.

,

,

:

3. PABD (
),P-SGBD ( )
flash-

, flash-
, "Read UIF" "ECU Status".

2.2.

flash-
.

WinKFPT
flash-
.

2.3   WinKFPT

WinKFPT,   :
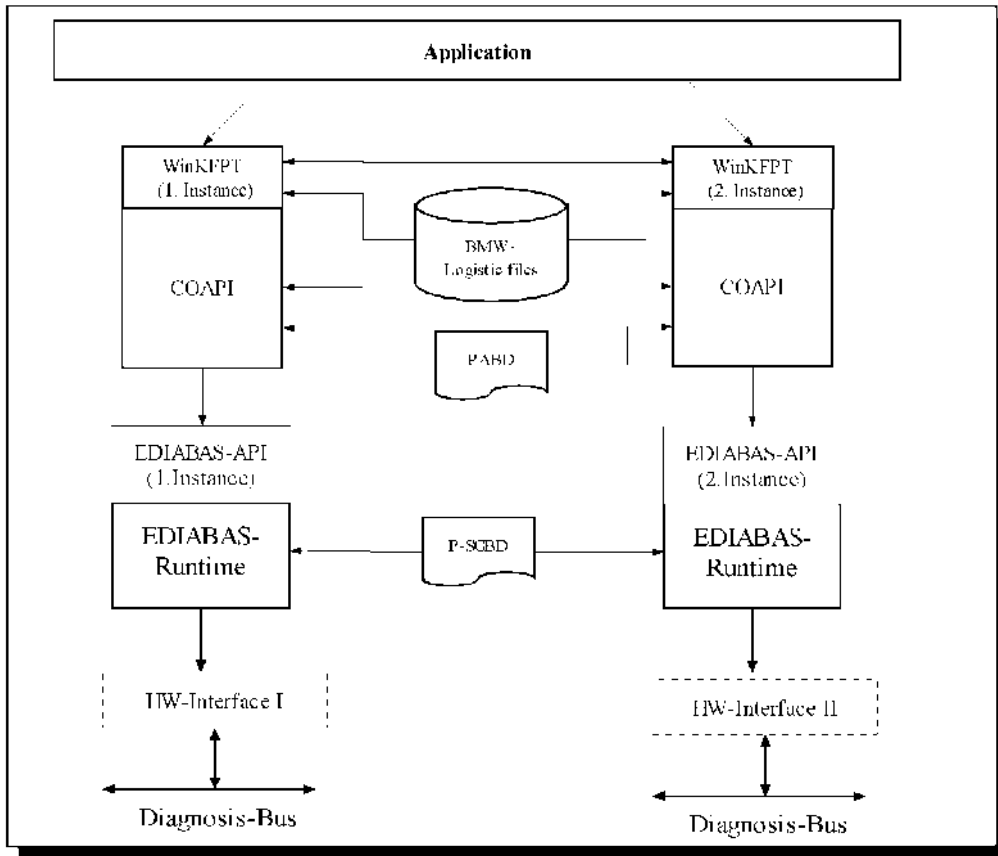
. 2-1:   **WinKFPT**

3 _____

3.1   **WinKFPT**

                 flash-   WinKFPT,
                 :

	PENTIUM II 64 MB RAM and 50 MB
	MS-Windows NT Version 4.0 or MS-Windows XP
	ADS, ADS-OBD, EDICcard, EDICcard2, EDICcardC, CANcard, CAN / Vector, Most / Optolyzer, Most / PC card or Funk / MDA
EDIABAS	6.0.2

.3-1:   **WinKFPT**

3.2 **WinKFPT**

WinKFPT   *WINKFPT32.EXE*   .

(<root>)

UNINSTALL

1.4   ,

,   WinKFPT   .

(Comfort mode)   PABD

P-SGBD   (Expert mode)

WinKFPT ("5.2   Import/Export "

REFMERGEFORMAT

3.3   **WinKFPT**

WinKFPT   .

<root>   :

,   WinKFPT:

•\<root>\BIN

WinKFPT:

• \<root>\CFGDAT

• \<root>\DATA

• \<root>\FORMAT

• \<root>\SGDAT

• \<root>\WORK

WinKFPT   :

• *INSTALL.LOG,*

• *UNWISE.EXE,*   WinKFPT.

\<root>\BIN	(EXE, DLL) / *WINKFPT.INI.* (*INNENTMP_INTERFACE_unit. OUT).*	
	CABIGER.DLL	- - DLL (German)
	CABUS.DLL	- - DLL (English)

	WINKFPT.INI	WinKFPT
	WINKFPT32.EXE	WinKFPT
	WINKFPT32.HLP	
	ERROR_INTERFACE_unit. LOG	
	4.6.0,	WinKFPT.
	.	
	<Configuration>	HW
	.	.
		INTERFACE HW
		interface identifier
		Unit identifier
		_unit (A, B, C)
	*.OUT	,
\<root>\CFGDAT	,	
	INPA.INI	
		WinKFPT
		.
		. . COAPI.
	COAPI.INI	
		:
	COAPIERR.TXT EDIERROR. TXT	COAPI EDIABAS
\<root>\DATA\DEVELOP	.	
	*.PAF	
	*.DAF	
	*.BAF	NAAB
	*.0PA	
	*.0DA	
	*.0BA	NAAB
\<root>\DATA\ GDATEN	flash- . .	

	.:	
	KFCONFxx.DA2	.
		4.6.0,
		,
		WDP(,
		).
	HWNR.DA2	(HW)
	NPV.DAT	.
		WinKFPT.
	:	
	INFO. GER	WinKFPT, :
		"Passenger side, rear". ,
		. .
		,
		,
		<Optional> r Comfort mode
		(=
		)
	PRGIFSEL.DAT	HW
		.
	.	
		<Optional>
		flash-
	.	
	SGIDC.AS2	"3".
		<Optional>
		.
	SGIDD.AS2	"4".
		<Optional>
		.
	HISTORIE.BSU	

		<Optional>
\<root>\DATA\<Ecu Fam>	<EcuFam>. : . :	ASCII .
	<EcuFam>.DAT	.
	<EcuFam>.HIS	. -
	<EcuFam>.HWH	. (HW) .
\<root>\DATA\KON V	MoDiC/DIS	
\<root>\DATA\KON V.TMP	WinKFPT : \<root>\DATA\KONV.TMP2, \<root>\DATA\KONV.TMP3	
\<root\SGDAT	: **.IPS* PABD **.IPO* PABD INPA.. CABI	PABD : PABD PABD (PABDs) ; CABI. COAPI, WinKFPT PABD.
\<root>\WORK	COAPI WinKFPT . WinKFPT	*COAPI.INI* .

. 3-2: **WinKFPT**

3.3.1 **WinKFPT**

"Configuration" ("5.4 Configuration ")

.

WinKFPT

- .

,

WinKFPT.

.

:

,

.

3.4 WinKFPT

WinKFPT :

WINKFPT.INI	WinKFPT
EDIABAS.INI	

. 3-3: **WinKFPT**

3.4.1 *COAPI.INI*

"<root>\CFGDAT\COAPI.INI"

,

COAPI. WinKFPT:

[Pfadangaben]		,	
WORKING_DIR	<root>	<root>\WORK	COAPI
ERROR_TEXTE	<root>	<root>\CFGDAT	COAPI
GENERAL_KF_DATA_PATH	<root>	<root>\DATA	.
[Kennfeldprog]		,	
SERIENNUMMER	5-	12345	(UIF)
KUNDENNUMMER	5-	11111	(UIF)
KM	2-	0	

			(UIF).
ZBNUMMER[3]	7-	0000000	(UIF)
SWNUMMER[3]	7-	0000000	(UIF)
TYPNUMMER[3]	7-	0000000	(UIF)
AEINDEX[3]	2-	00	(UIF)
[Setup]			PABD WinKFPT.
CabdFormat	IPS IPO COM	IPO	, COAPI (WinKFPT) PABD . , Winkfpt.ini IPS – PABD IPO – PABD COM – WinKFPT IPS IPO- . PABD-

BsuActive	ON OFF	ON	COAPI- coapiKfCheckBsuPossible D2 BsuActrive=OFF NAAB- , . . , historie.bsu , . COAPI.INI COAPI- coapiKfInit ()

3

ON (**EXPERT_MIT_AIF**   **WINKFPT.INI**
)

. **3-4**   **COAPI.INI**

3.4.2   *WINKFPT.INI*

"<root>\BIN\WINKFPT.INI [2]
WinKFPT.

WinKFPT:

[Einstellungen]			,
WindowPosition		0,1,-1,-1, -1,-1,0,0, 643,424	WinKFPT
SPRACHE	ger eng	ger	WinKFPT. : German (ger) English (eng).
U_PROG	ON OFF	ON	, flash-
SCHNELLE_BAUDRATE	ON OFF	ON	(ON) (OFF) flash-

ANZEIGE_U_PROG	ON OFF	ON	(ON) (OFF) flash-

EXPERT_MIT_AIF	ON OFF	ON	,
			                                  (ON)
			       (OFF) UIF
			flash-

KOMFORT_MIT_AIF	ON OFF	ON	,
			                                  (ON)
			       (OFF) UIF
			flash-

AIF_SCHREIBEN_NACH_DATEN	ON OFF	ON	,
			                                  (ON)
			       (OFF) UIF -

AIF_SCHREIBEN_NACH_PROGRAMM	ON OFF	ON	,
			                                  (ON)
			       (OFF) UIF -

API_TRACE	0 - 7
	OFF (= 0) ON
	(= 1)
		1	API EDIABAS
			                                flash-
			                        .
			       0

IFH_TRACE	0 - 3
	OFF (= 0) ON
	(= 1)
		1	IFH EDIABAS
			                                flash-
			                        .
			       0
			                                 .

PROGRAMM_ERZWINGEN	ON
	OFF
		OFF	flash-
			
			                                 ,
			
			                        .

TEST_CHECKSUMME	ON
	OFF
		ON	(ON)
			       (OFF)
			
			                                 .

CabdFormat	IPS IPO (COM)	IPO	WinKFPT PABD

			IPS - PABD

IPO – PABD

COM –

INI-
,

"-C". |
ErrorLogPath	any path	.\	ERRORn.LOG
ExpertKonfPath	any path	C:\Diagprog	(Expert mode).
KomfortKonfPath	any path	C:\NFS-Backup	(Comfort mode).
CoapiSearchPath	any path	.. \	WinKFPT

[HW-Interface]   HW

WinKFPT

::

[Description] = [HW interface identifier]

     :

K-Line / EDIC=EDIC

K-Line / ADS-OBD=STD:OBD

CAN / EDIC=EDICC

CAN / Vector=STD:CAN

Most / Optolyzer=STD: MOSTO

Most / PC card=STD:MOSTP

[Description].

   ,   [Description]   HW
            Communication -> HW Interface (. K-Line / EDIC).

[HW interface identifier]   WinKFPT.

                                              "EDIABAS"   "EDIABAS"
          HW-   .

[Expert-Modus-Konfiguration]	
	( ) Expert mode. Expert

KF_HW_INTERFACE	HW-		HW- Expert mode. Communication-HW Interface.
KF_HW_INTERFACE_UNIT	_, A, B, C, D, E		HW- Expert mode. Communication-HW Interface
KF_DIAG_PROT			Expert mode; P-SGBD- ,( ) . Communication - Diagnosis protocol.
KF_PSGBD	P-SGBD-		P-SGBD- Expert mode. P-SGBD- Expert Mode P-SGBD.
KF_PABD	PABD-		PABD - Expert mode. PABD - Expert Mode PABD.
KF_SG_ADR			Expert mode. Expert Mode ECU Address.
KF_DATEN_DATEI			Expert mode. Expert Mode Data File.
KF_PROGRAMM_DATEI			Expert mode. Expert Mode Program File.
KF_NAAB_DATEI	NAAB-		NAAB- Expert mode. NAAB- Expert Mode NAAB File.
KF_HW_INTERFACE			

| : | | WinKFPT |
| ! | | |

3-5:   *WINKFPT.INI*

, WINKFPT.INI

/   ,   , .

4.3   Expert Mode

Expert mode   ..

Expert mode

::

• HW-

•

• P-SGBD -

• PABD -

•

•

•

• NAAB-   (   )

HW-   **Communication HW Interface** Expert mode ("5.3.1   HW -   ").

                        Communication Diagnosis Protocol Expert mode (. "5.3.2   ").

P-   **"P-SGBD"** Expert mode (. "8.1.2   :   P-SGBD").

PABD   **"PABD"** Expert mode (. "8.1.1   :   PABD").

                 "ECU Address" Expert mode (. "8.2.1   :   ").

                 "Data File" Expert mode (. "8.2.4   :   -   ").

                 "Program File" Expert mode (. "8.2.3   :   –   ").

NAAB-   **"NAAB File"** Expert mode (. "8.2.2   :   - NAAB –   ").

3.4.3.1   **Expert Mode**

Expert

WinKFPT,

Expert mode
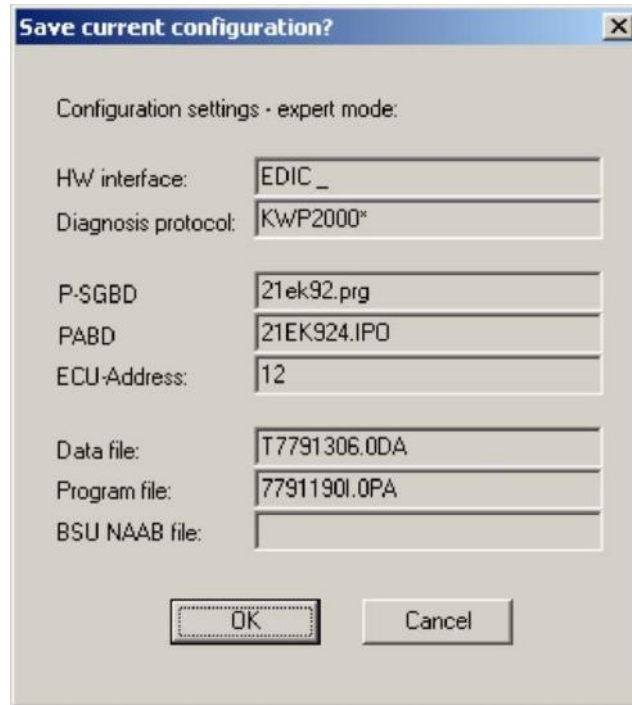
WinKFPT   :

. 3-1:   **Expert mode**

.

3.4.3.2   **Expert Mode**

Expert

mode.

:
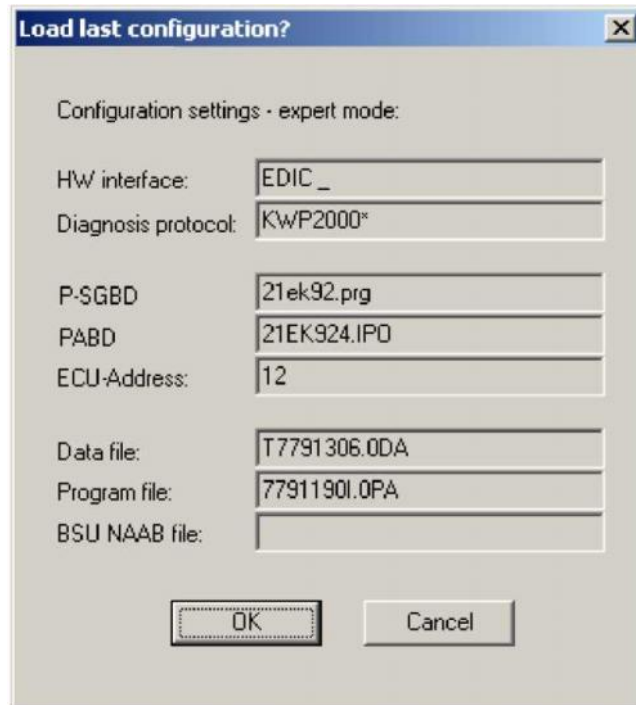
. 3-2: **Expert mode**

"OK"

"Cancel". PABD-

,

.

WinKFPT ' (. "**4.2** ' **WinKFPT**").

(. "8 Expert Mode").

3.4.3.3 Expert Mode

,
[Expert mode configuration] *WINKFPT.INI.*

:

• WinKFPT.

• t Expert mode, **"Expert Mode".**

• **"Cancel"** "Load last configuration?".

• WinKFPT **End Exit.**

• *"Save last configuration?"*

. **"OK".**

WinKFPT **[Expert mode configuration]** WinKFPT.INI .

3.4.4 *EDIABAS.INI*

"<ediabas>\CFGDAT\EDIABAS.INI"

HW-

[Configuration]			EDIABAS.
Interface		EDIC	HW- WinKFPT

Table 3-6: *EDIABAS.INI*

3.5 WinKFPT

WinKFPT


```
: Initialisierungsdatei fuer COAPIKF-Funktionen
[Pfadangaben]
ERROR_TEXTE = ..\CFGDAT
WORKING_DIR = ..\WORK
: genereller Pfad fuer Kennfeld-Daten
GENERAL_KF_DATA_PATH = ..\DATA

[Kennfeldprog]
TEMP_DAT_FILE_DEFAULT_NAME = KFLISTE.DAT

: Daten
SERIENNUMMER = 42324
KUNDENNUMMER = 12321
KM   0
ZBNUMMER = 0000000
SWNUMMER = 0000000
TYPNUMMER = 0000000
AEINDEX = 00

: SG Dateien komprimieren
: 1 -> Dateien werden immer komprimiert (Für Datenupdate über Netz
:    während Applikation läuft)
```

. 3-3: *WINKFPT.INI*


```
Sektion [Configuration]
:----------------------------------------------------
: Interface
:  Description :                          Connected diagnosis int
:  Default    =                                              1
Interface=STD:OBD
```

. 3-4: : *EDIABAS.INI*

4 STARTING WINKFPT

WinKFPT

WinKFPT
WinKFPT.

4.1   WinKFPT

WinKFPT:

-RUN		WinKFPT : winkfpt32 -RUN	
-BATCH=	\<Control file\>	:winkfpt32 -RUN -BATCH=update_ek928	"\<root\>\bin\winfpt.ctl"
-INTERFACE=	\<HW interface\>	HW- (ADS, EDIC) WinKFPT. Dialog mode "HW Interface". : winkfpt32 -INTERFACE=STD:OBD	Setting in "EDIABAS.INI"
-UNIT=	\<Interface unit\>	(, A, B, C, , Z) WinKFPT. Dialog mode "HW Interface". : winkfpt32 -UNIT=A	
WITH_MOSTFIREWALL=	\<ON/OFF\>	Relays the value to the PABD as the parameter "WITH_MOSTFIREWALL". Example:winkfpt32 -WITH_MOSTFIREWALL=ON	"OFF"
-TESTER_ID=	\<Hex value\>	Relays the value to the PABD as the parameter "TESTER_ID". Example: winkfpt32 -TESTER_ID=FA	"F1"
-C	\<PABD file name\>	Compiles an IPS file (PABD source file). CabdFormat=COM does **not** have to be set in WinKfpt.ini and coapi.ini. Example: winkfpt32 -C 16ek928	

    .4-1.   **WinKFPT**

4.1.1   **WinKFPT**

                         WinKFPT   3   ::

1.

2.

3.

                                    :

• -C -   WinKFPT   –
       !

• -RUN -   WinKFPT

• no par.   C   -RUN   ,
WinKFPT

                         ,   .

                                       :

• -BATCH

                                  :

• -INTERFACE

• -UNIT

• -WITH_MOSTFIREWALL

• -TESTER_ID

4.2   **WinKFPT**

                                                  ,

       flash-   :

ECU address	« » .. : *PABD uses an* *internal address (PABD* *)* - : Expert mode (Dialog mode). - Comfort mode (Dialog mode). - flash- .
Integration position	, ,

	. , , , (. *Passenger seat, rear left).* *INFO.GER* Comfort mode (Dialog mode).
Vehicle identification number	Comfort mode UIF flash- VIN : - Comfort mode (Dialog mode). - flash- Batch mode ( ).
ZB number	ZB ( ) . ZB- : Expert mode (Dialog mode) UIF ( ) flash- . *COAPI.INI* Comfort mode (Dialog mode). flash- .
HW number	. : flash Expert mode (Dialog mode). flash Comfort mode (Dialog mode). flash Batch mode.
HW interface	HW- .
Interface unit	-
Diagnosis protocol	, 2 .
PABD	. : Expert mode (Dialog mode). Comfort mode (Dialog mode). flash Batch mode
P-SGBD	: Expert mode (Dialog mode). Comfort mode (Dialog mode). flash Batch mode.
Progress bar	(0 % - 100 % in 1 % increments). : flash- ( ). / ,

Boot sector update	, (ACTIVATED NOT ACTIVATED). "Configuration".

. 4-2: **WinKFPT**

4.3 **WinKFPT**

WinKFPT

: **winkfpt32 -C <filename>**

PABD- (= IPS-)
WinKFPT .
CabdFormat=COM   Winkfpt.ini and coapi.ini
.   WinKFPT.

PABD-   ,   *10GD8600.IPS,*
"<root>\sgdat"   .   WinKFPT
           :
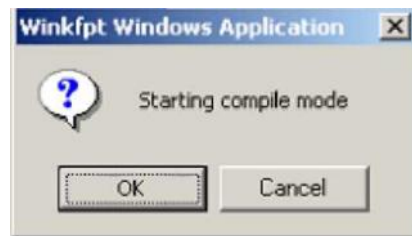
4-1.

"Cancel", WinKFPT   ..

"OK",   PABD
                              .

           ,   *CABI.ERR*
                      <root>\bin.

                                                              :

. 4-2:   **-**

                                                              :

. 4-3:   **-**
WinKFPT   **"OK"**.

,
WinKFPT (WinKFPT   )

:
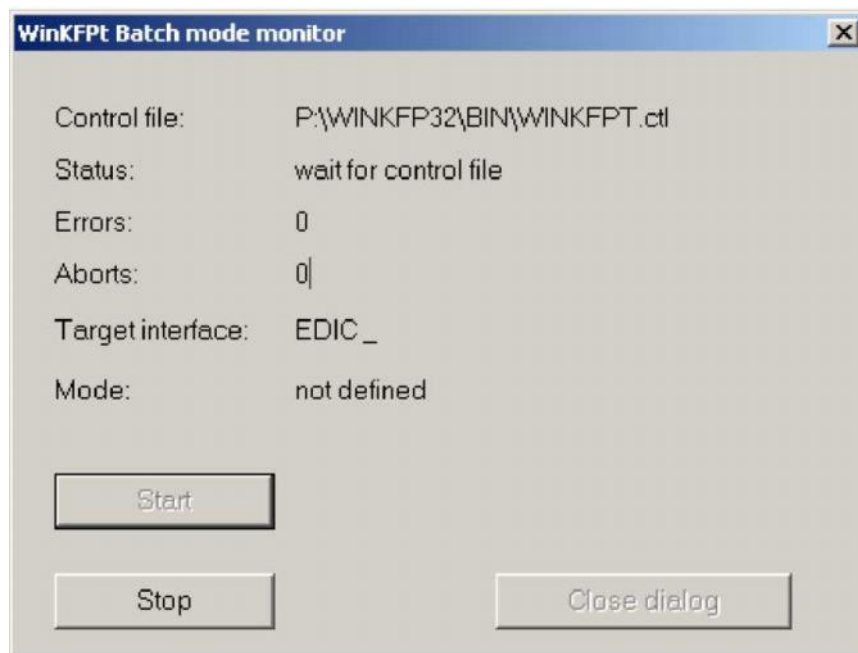
. 4-4:   **(   )**

:

Control file	, (-BATCH=<controlfile>).
Status	. : "not started" "started" "waiting for control file" "reading in control file"

	"programming active"
	"waiting for end of programming"
	"programming ended"
	"no control file specified"
	"report file cannot be opened"
	"WinKFPT Batch mode error"
	"Batch cannot be started. Programming in progress"
Errors	,
Aborts	, flash- ;
Target interface	HW- + t WinKFPT flash-
Mode	, (Comfort mode Expert mode) .

    . 4-3:

:

- **"Start":**   , . .. WinKFPT
  .

- **"Stop":**   , . .
  "Start"   .

- **"Close dialog":**
       ..

              , WinKFPT

    .   ,   ,
        .   ,
           (,   )   .

             -BATCH=<controlfile>;

   ,   .   ,   ,
                WinKFPT, <root\bin>.

                        .

                .CTL.

4.4.1

                      .

                      ,
      WinKFPT   "Comfort mode"   (ZB-   ,
   (   )   ).

                    INI-   WINDOWS
          :

[FGNUMMER] (   ), [ZBNUMMER] (   ), [SGADRESSE] (   )
[BATCH].   .

                    :

[FGNUMMER]	[FGNUMMER] (VIN) : VIN=<VIN> : VIN=WBAA 31080AZ43446

[ZBNUMMER]	[ZBNUMMER] ( )
	,
	: ZBNxxxx=<ZB- >, xxxx - ,
	                     0000, ..
	: ZBN0000=7539765
	
	ZBN0001=7539767
	
	                                                   .
	                                          .

[SGADRESSE]	[SGADRESSE] ( ) ,
	
	: SGADRxxxx=<ECUaddress>, xxxx -
	        , 0000,
	     .. .
	: SGADR0000=12
	SGADR0001=13
	
	    . .
	
	[ZBNUMMER]
	ZBN0000=7515985
	[SGADRESSE]
	SGADR0000=A2

[BATCH]	[BATCH]
	
	: END=ON END=OFF.
	                                                        END=OFF.
	     END=ON WinKFPT
	                                              ,
	                                          BATCH
	        END=ON.
	
	        . -
	RUN, WinKFPT . , FGNUMMER,
	ZBNUMMER SGADRESSE

    . 4-4

                                                   ,   WinKFPT

4.4.

WinKFPT "Expert mode" , (PABD, P-SGBD,

, , ,).

INI- WINDOWS.

: [MULTIFLASH] .

[MULTIFLASH]

MF_PABD	PABD- , : MF_PABD=<PABD name> : MF_PABD=21EK928.IPO
MF_PSGBD	P-SGBD- : MF_PSGBD=<P-SGBD name> : MF_PSGBD=21EK92.PRG
MF_SG_ADR	 : MF_SG_ADR=<PABD name> : MF_SG_ADR=12
MF_DATEN_DATEI	. NAAB- , . : MF_DATEN_DATEI =< > : MF_DATEN_DATEI=Q7525491.0DA
MF_PROGRAMM_DATEI	. NAAB- , . : MF_PROGRAMM_DATEI =< > : MF_PROGRAMM_DATEI=7523523A.0PA
MF_NAAB_DATEI	NAAB- . NAAB- , . t: MF_PROGRAMM_DATEI =< NAAB- > : MF_NAAB_DATEI=555111_555222.0ba
MF_DIAGNOSEPROTOKOLL	. : MF_DIAGNOSEPROTOKOLL=< > : MF_DIAGNOSEPROTOKOLL=KWP2000*
MF_FG_NUMMER	. UIF . : MF_FG_NUMMER=<VIN> : MF_FG_NUMMER WBAA 31080AZ43446

. 4-5

,   WinKFPT
.

4.4.3
                                                    :

.
        WinKFPT   .

                                                              Batch   mode
.

                                                                              .

        WinKFPT   Batch   mode, EDIABAS-API
                                                              .
                              flash-   ,   . ..
                                                        ,
        WinKFPT
.

                                                    :
                                                                    log-   ,
              ,   ,   *.PRT.*

    log-   :
                                                        .
                                            ,
                                                              .

   Comfort mode:
VIN,   FGN=<VIN>.
ZB-
   Expert mode:
PABD   MF_PABD=<PABD>.
P-SGBD   MF_PSGBD=<P-SGBD>.
                              MF_SG_ADR=<ECU address>.
                                  MF_DATEN_DATEI=<Data file name>.
                                        MF_PROGRAMM_DATEI=<Program file>.
NAAB-   MF_NAAB_DATEI=<NAAB file>.
VIN,   MF_FG_NUMMER=<VIN>.
                                        ,
MF_DIAGNOSEPROTOKOLL=<Diagnosis protocol>.

                                    :

"ERG=Programming OK"

"ERG=Programming nOK. Abort"

"ERG=Programming nOK. Fatal error"

WinKFPT

log-   INFOxxx=<Text>,   xxx –

:

. Comfort
mode, WinKFPT   . Expert mode, WinKFPT
.

4.4.4   **HW-**

HW-
Comfort mode
\<root>\DATA\GDATEN*PRGIFSEL.DAT*.

HW-
.

"PRGIFSEL.DAT'
'
HW-   ,
'.
–
,   P-SGBD–
.

4.4.5

WinKFPT

WinKFPT   .

(HW-   '   +   )
.   ,
:

Error 113:

Batch control file is already used by another WinKFPT32-Instance:

P:\WINKFP32\BIN\WINKFPT.ctl

OK

. 4-2
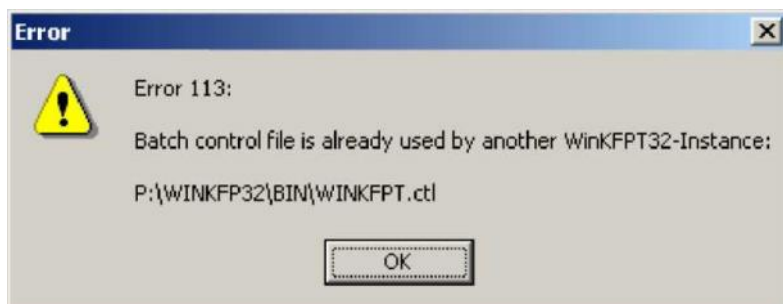
-BATCH=<Control file>

(

WinKFPT **-RUN**),

(WinKFPT **-RUN**).

, WinKFPT
HW + .

WinKFPT
-INTERFACE=<HW interface>
-UNIT=<   >.

WinKFPT

, . .   HW-   +
.

HW-

H-   .

,
HW-   , HW-
.

4.5 1   **WinKFPT**

"-C" and "-RUN"
WinKFPT   .

WinKFPT   WinKFPT

4.5.

,   99
WinKFPT   .

HW   +   or HW   +

WinKFPT   ,
,   HW   +

:


```
Error                                                          ×

 ⚠   Error 300:

     First HW interface could not be initialized!

     <DefaultInterface> _
     IFH-0029: ACCESS DENIED

     Attention!! EDIABAS-Path must be entered in Windowspath (PATH)!
     Check environment variable "PATH" in system settings - System

                        OK
```

. 4-3   .

          "OK",   .

5   WINKFPT

                                                                                         ::

• <Display>

• <Import/Export>

• <Communication>

• <Configuration>

• <Help>

• <End>

5.1   Display

                    Display
                                                                   (ON   OFF)
                                              :

• <CABI.ERR>

• <ERROR.LOG>

• <PABD Parameters>

• <HW History>

• <ZB History>

• <ZB Rule>

• <API Trace File>

• <IFH Trace File>

• <Batch Mode>

5.1.1 Display CABI.ERR

CABI.ERR

PABD- (= IPS file).

OK "ESC" Alt+F4.

5.1.2 Display ERROR.LOG

ERROR_INTERFACE_UNIT.LOG

<u>COAPI</u> CDH.

OK "ESC" Alt+F4.

5.1.3 Display PABD Parameters

<u>PABD- .</u>

OK "ESC" Alt+F4.

5.1.4 Display HW History

HW- HW- . **OK** "ESC" Alt+F4.

5.1.5 Display ZB History

ZB- .
OK "ESC" Alt+F4.

5.1.6 Display ZB Rules

ZB- ..
OK "ESC" Alt+F4.

5.1.7 Display API Trace File

API EDIABAS.
OK "ESC" Alt+F4.

5.1.8 Display IFH Trace File

IFH EDIABAS.
OK "ESC" Alt+F4.

5.1.9 Display Batch Mode

.

.

5.2 Import/Export

:
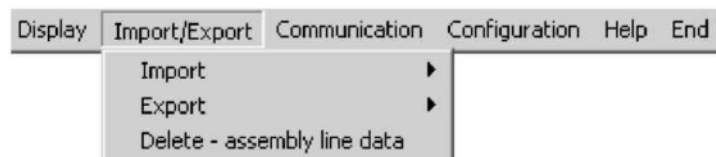
. 5-1: <u><Import/Export></u>

5.2.1   Import

                                     ,

                   :
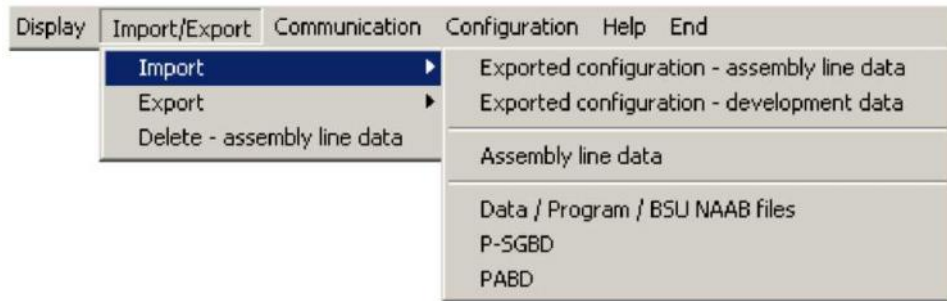
. 5-2:   **<Import>**

    Import   flash-

                 .   .

                               .

                            :

Data sets / Program releases / NAAB files	*.0DA *.DAF *.0PA *.PAF *.0BA *.BAF	NAAB NAAB
P-SGBD	*.PRG	P-SGBD
PABD	*.IPS *.IPO	PABD PABD
Assembly line data	*.0DA	
	*.0PA	
	*.OBA	NAAB
	*.PRG	P-SGBD
	*.IPS	PABD
	*.IPO	PABD
	*.DAT	
	*.DA2	
	*.HWH *.HIS	
	*.ATS *.ASD	
	*.AS2	
	*.GER	
	*.BSU	BSU ( )
Exported configuration development data		+ /
Exported configuration – assembly line data		+

. 5-1:

,   ,   BSU NAAB, P-SGBD-   PABD-
                "Expert mode".

"Comfort mode".

5.2.1.1   "Exported Configuration"

"   "
        Import/Export -> Import -> Exported configuration - assembly line data.

                                                    ,
        :
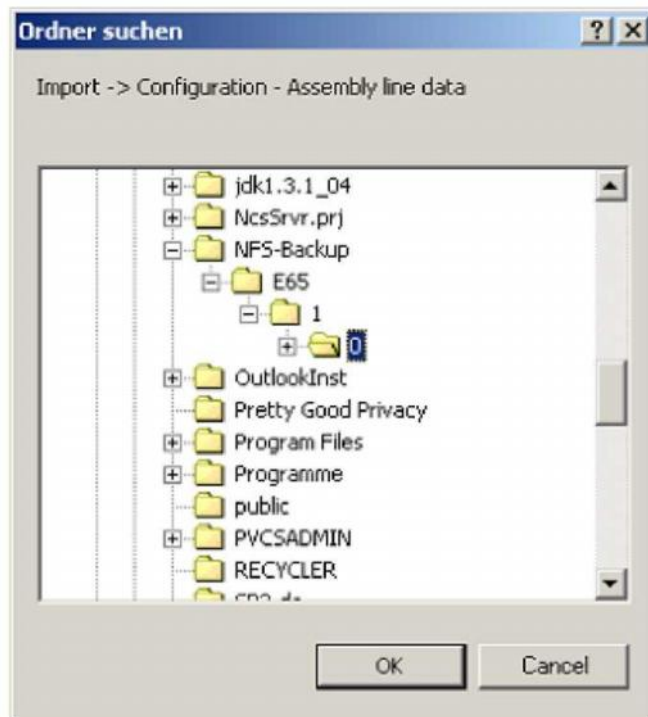
Fig. 5-3:   **.**

                                                    - "My   Computer".
                                        ,
        .

                ,   log-   *BACKUPEXPORT.LOG.*

                                                                                    ,
                                        .

                                                                            , . .
                        WDP (
)   **.**

WDP

"<root>\Data".

, WDP

, **"Replace", "Merge"   "Cancel".**
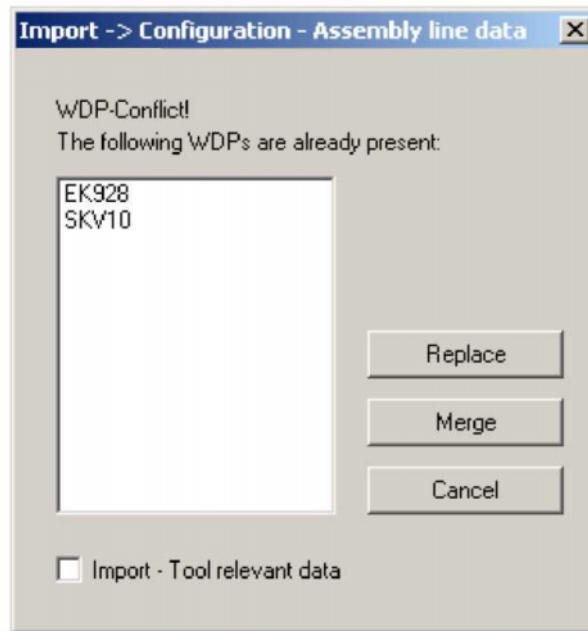
5-4   WDP

WDP   ,
.   **"Merge"**
                    "Replace"   **"Import"**

(INI files) ("Import - Tool relevant data"   ).

.

KMM-
        ..
                                    :

• **Cancel** (   ):

.

• **Replace   Import**   (   ):

,   .

• **Merge** (WDP   ):

.

                                    «   »
                        Replace   Merge:

KFCONFXX.DA2 and *HWNR.DA2:*

,   ,   ,
,   ,   ,
,   .

,   **Merge,**
:

<ECUFAMILY>.DAT:

,
DAT-   ,
.   ,   ,
.   ,   ,   "$"   «;»

5.2.1.2   "Exported Configuration"
"   "
Import/Export -> Import -> Exported configuration - development data.

,
:
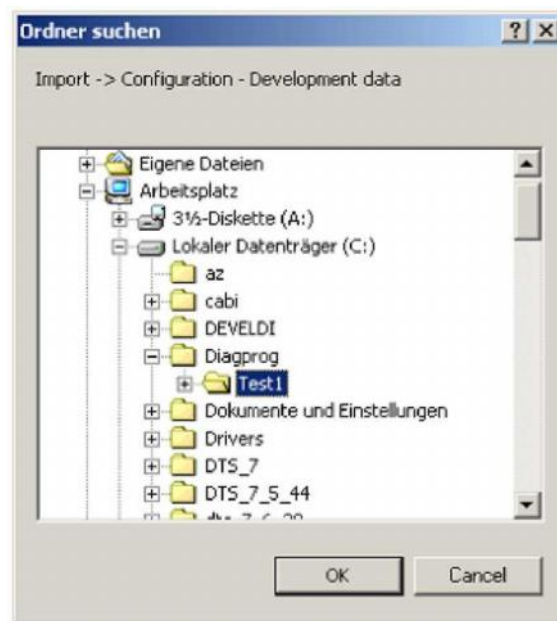
. 5-5:

- "My   Computer".
,
.

,   log-   *CONFIGEXPORT.LOG.*

,
.

, . .
WDP (
)   .

WDP

"<root>\Data".

,   WDP

,   **"Replace", "Merge"   "Cancel".**
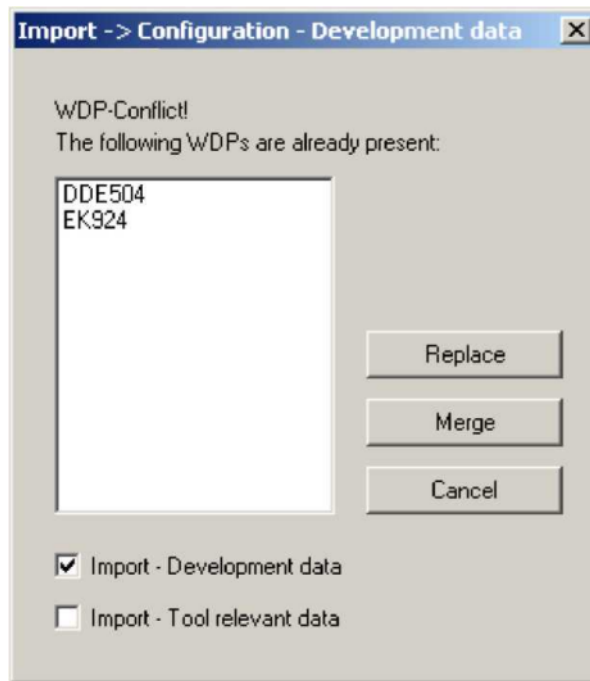
5-6   **WDP**

                WDP   ,
                    .   **"Merge"**
                                  "Replace"   **"Import"**

                                    ,   .   :
<basedirectory>\<configurationname>\Daten\Entwicklung\Data\Develop
<basedirectory>\<configurationname>\Daten\Entwicklung\Sgdat
<basedirectory>\<configurationname>\Daten\Entwicklung\Ecu   directories   (
            "Import - Development files"   ).
            :
                                    :
<basedirectory>\<configurationname> \Daten\Entwicklung\Data\Gdaten

(INI files) ("Import - Tool relevant data"   ).

                                    .
                                    :

- **Cancel** (   ):

                                                                            .

- **Replace   Import**   (   ):

                            ,   .

- **Merge** (WDP):

.

« »
Replace Merge:

KFCONFXX.DA2 and *HWNR.DA2:*

, ,
, , ,
, .

Merge,
:

<ECUFAMILY>.DAT:

, DAT- ,
. , ,
. , , "$" «;»

5.2.1.3

Import/Export ->
Import -> Assembly line data.

,
:

. 5-7:

- "My Computer".
,
.

.

"G:\Trans\EK9282"

"G:\Trans".

WinKFPT

.

"G:\Trans\EK9282"   ,
"EK928"   ;   "G:\Trans",
"EK9282", "EK9294B"   . .   .

WDP
"<root>\NFS\Data".

,   WDP
,   **"Replace", "Merge"   "Cancel"**
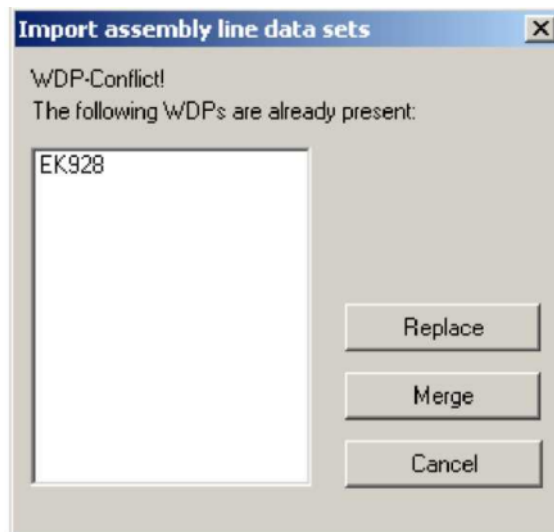
        5-8.   **WDP**

:

- **Cancel** (   ):

.

- **Replace   Import**   (   ):

,   .

- **Merge** (WDP   ):
.

«   »
                    Replace   Merge:

KFCONFXX.DA2 and *HWNR.DA2:*

,   ,
,   ,   ,
,   .

,   **Merge,**
:

<ECUFAMILY>.DAT:

,   DAT-   ,
.   "$"   «;»
.   ,   ,

:

*.PRG	<ediabas>\ecu
*.IPS, *.IPO	<root>\SGDAT\
*.ASD, *.AS2, INFO.GER, HWNR.DA2, KFCONF.DA2, HWNR.DAT, NPV.DAT, KFCONF.DAT, HISTORIE.BSU	< root>\DATA\G DATEN
<ECUFAMILY>.DAT, *.0DA, *.0PA, *.0BA, *.HWH, *.HIS, *.ATS	<root>\DATA\<ecufam>

. **5-2**

5.2.1.4.   NAAB-   ,

NAAB-   ,   ,
                              Import/Export -> Import -> Data / Program / BSU NAAB files-

                                NAAB-   ,
                                                                        ,
                        flash-
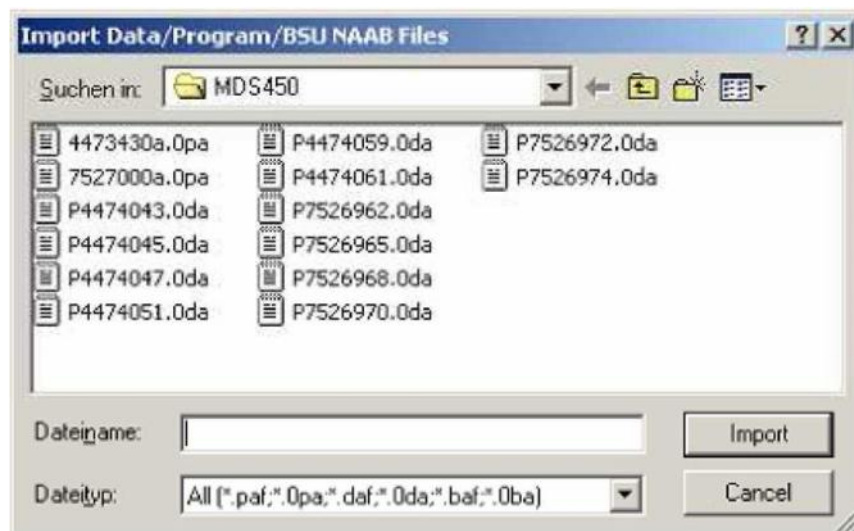
5-9   ,   **NAAB-**

*.BAF, *.0BA, *.PAF, *.0PA, *.DAF   *.0DA   .

:

"Search in".

.

,   .

<Ctrl>

<Ctrl> + <A>.

"Import".

\<root>\data\develop

:
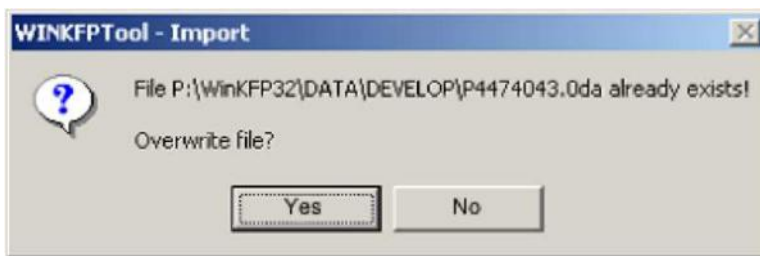
5-10   **NAAB-**

,   -

(0 - 100 %).

,   "

–   NAAB-   ",   "   :   –

"   "   :   –   "

Expert mode

5.2.1.5   **(P-SGBD)**

P-SGBD   **Import/Export -> Import -> P-SGBD.**

P-SGBD,   ,

flash-   Expert   mode
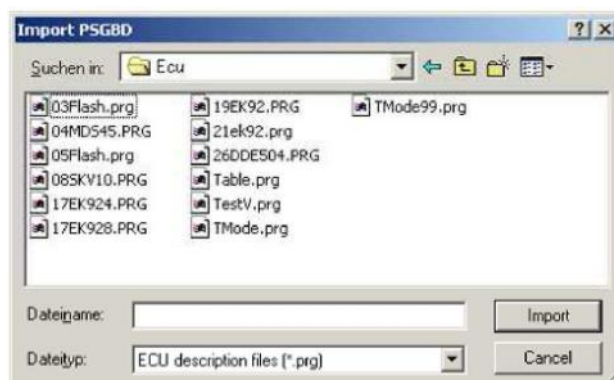
. 5-11:   **P-SGBD**

*.PRG.

:

"Search in".

.

, .

<Ctrl>

<Ctrl> + <A>.

"Import".

P-SGBD **"<ediabas>\ecu"**

:
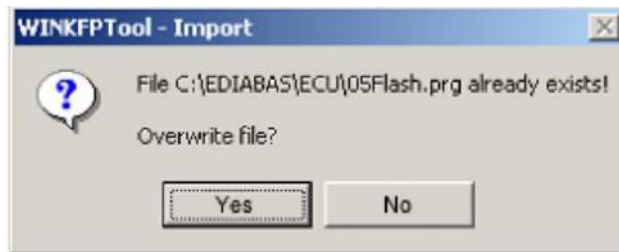
5-12 **P-SGBD**

, -
(0 - 100 %). ,
"Load P-SGBD" Expert mode

5.2.1.6 **(PABD)**

PABD **Import/Export -> Import -> PABD.**

PABD,

, flash-
Expert mode
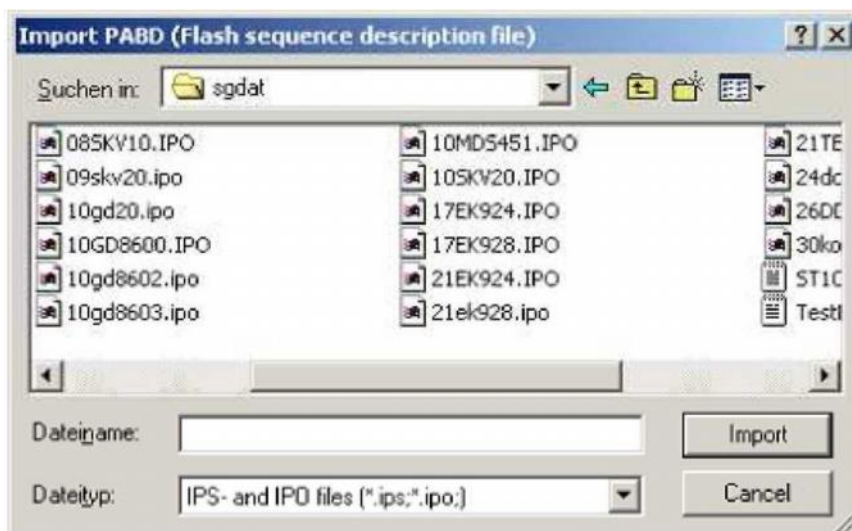
5-13: **PABD**

*.IPS and **.IPO* (   )

:

"Search in".

.

,   .

<Ctrl>

<Ctrl> + <A>.

"Import".

"\<root>\sgdat"

:

WINKFPTool - Import

File P:\WinKFP32\SGDAT\21EK924.IPO already exists!

Overwrite file?

[Yes]   [No]

5-14   **PABD**

,   -

(0 - 100 %).

,   **"Load**
PABD "   Expert mode

5.2.2   Export

:

Display | Import/Export | Communication | Configuration | Help | End

Import ▶

Export ▶   Configuration - assembly line data

Delete - assembly line data   Configuration - development data

. 5-15:   **<Export>**

5.2.2.1   "   "

"   "

Import/Export Export   Configuration - assembly line data.

:
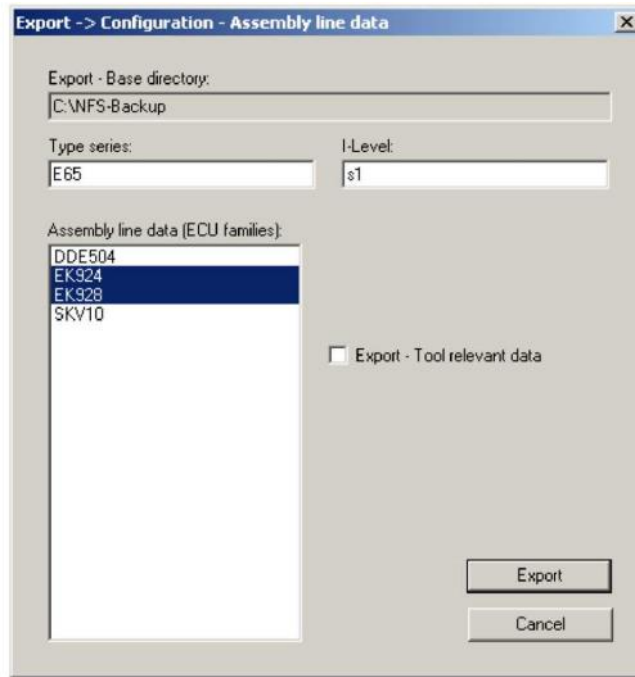
. 5-16:

, . .. <root>\NFS-Backup",   ("Type series"   "I-Level")

                                                                                          (
)   .   ,   ,
                              .   ,
                                                                                    ,
                    ..
                        ,   KMM   "<root>\KMM\"
                                  ,   KMM
                                  ,
                              ,
            and located   .

      ..

                                                                ::
1.   , . .   .
            ,

                                                                                                .
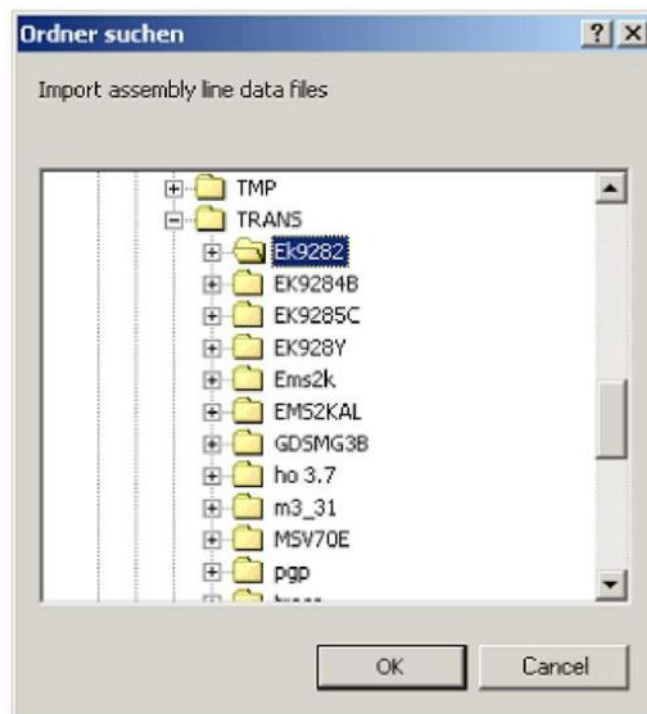   .
2.   , . .
                .
                                                            ,
                    .

"BACKUPEXPORT.LOG"   <root>\<NFS-Backup>\<typeseries>\<I-Level>\<index>\.

                                                               (<root>\<NFS-Backup>\<typeseries>\<I-Level>\<index>\),

log-

log-

:

- (: dd.mm.yyyy)

-

-

- I-Level (   )

- Index

-   /

-   /

-

-

5.2.2.1.1

GData,   EC-Family-Data,   PABD,   P-SGBD

winkfpt.ini

coapi.ini

ediabas.ini
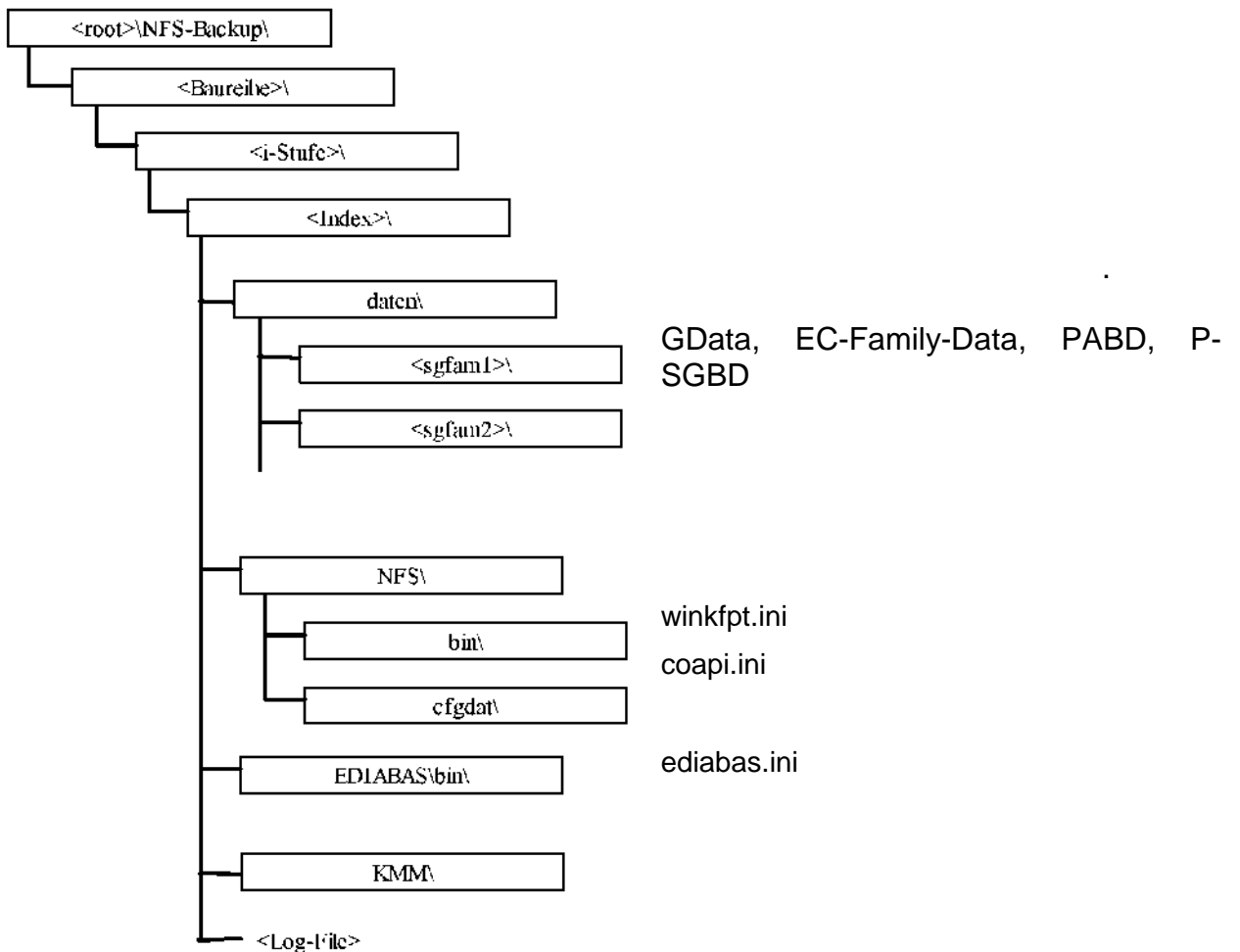
. 5-17:

5.2.2.1.2

- WDP ( )

 , : : *.0PA, *.0DA,
*.0BA , <ECUFAM>. DAT, <ECUFAM>.HIS, <ECUFAM>.HWH <ECUFAM>.ATS
 <ecufam> е <root>\<NFS-
Backup>\<typeseries>\<I-Level>\<index>\daten\<ecufam>.

 : SWTCONFX.DAT, HISTORIE.BSU,
SGIDC.AS2, SGIDD.AS2 INFO.GER
<root>\Data\Gdaten <root>\<NFS-Backup>\<typeseries>\<I-
Level>\<index>\daten\<ecufam>
HWNR.DA2 KFCONFXX.DA2
 <root>\NFS-Backup\<typeseries>\<I-Level>\<index>\daten\ <ecufam>.

 PABD: , WDP
KFCONFXX.DA2 <root>\Sgdat
<root>\<NFS-Backup>\<typeseries>\<I-Level>\<index>\daten\<ecufam>

 P-SGBD: , WDP
KFCONFXX.DA2 EDIABAS\ECU
<root>\<NFS-Backup>\<typeseries>\<I-Level>\<index>\daten\<ecufam>.

- KMM ( )

 <root>\kmmdat\<typeseries>\
 <root>\<NFS-Backup>\<typeseries>\<I-Level>\<Index>\kmm\
directory.

- ( )

 *.INI <root>\NFS\bin\
 <root>\<NFS-Backup>\<typeseries>\<I-Level>\<Index>\bin\.

 *.INI and *.DAT
<root>\cfgdat <root>\<NFS-Backup>\<typeseries>\<I-
Level>\<Index>\cfgdat\..

 *.INI
<root>\EDIABAS\bin\ <root>\<NFS-Backup>\<typeseries>\<I-
Level>\<Index>\EDIABAS\bin\ directory.

5.2.2.2 " "

" "

Import/Export -> Export -> Configuration - development data.

 :
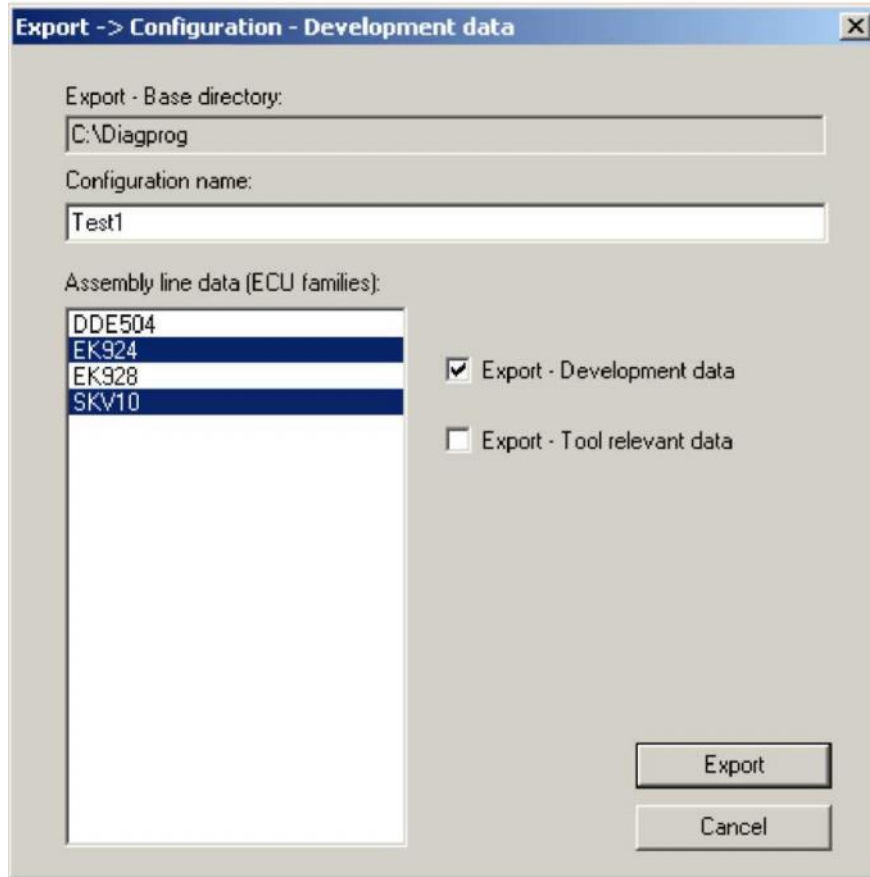
. 5-18:

, . ."<root>\Diagprog", ("Configuration name")

(
) . , ,
. ,
, ( )
.

, ("Configuration name")
, :

. 5-19 .

"Yes",

log-

"CONFIGEXPORT.LOG"   \<root>\Diagprog\\<configurationname>\

                                                        \<root>\Diagprog

\\<configurationname>\

         log-   .

                                                                 log-

                    :

-    (: dd.mm.yyyy)

-

-

- /

- /

-

-

5.2.2.2.1

C:\Diagprog\Konfiguration\	
\<Name der Konfiguration>\	
daten\	
Entwicklung\	
develop\	
gdaten\	Gdata
ecu\	P-SGBD
sgdat\	PABD
\<sgfam1>\	
\<sgfam2>\	GData, EC-Family-Data, PABD, P-SGBD
NFS\	
bin\	winkfpt.ini / coapi.ini
cfgdat\	
EDIABAS\bin\	ediabas.ini
\<Log-Filei>	

5-20

5.2.2.2.2

-                                    :

                 ::   *.0PA, *.0DA, *.0BA, *.PAF, *.DAF *.BAF   NFS\Data\Develop <root>\Diagprog\<configurationname>\Daten\Entwicklung\Develop.

               :   SWTCONFX.DAT, HISTORIE.BSU, SGIDC.AS2, SGIDD.AS2, HWNR.DA2, INFO.GER KFCONFXX. NFS\Data\Gdaten <root>\Diagprog\<configurationname>\Daten\Entwicklung\Gdaten

  P-SGBD-   :   *.PRG-   EDIABAS\ECU <root>\Diagprog\<configurationname>\Daten\Entwicklung\Ecu.

  PABD-   :   *.IPS *.IPO-   NFS\Sgdat <root>\Diagprog\<configurationname>\Daten\Entwicklung\Sgdat.

-       WDP (   ):

              ,   :   *.0PA, *.0DA, *.0BA <ECUFAM>. DAT, <ECUFAM>.HIS, <ECUFAM>.HWH <ECUFAM>.ATS   <ecufam> <root>\Diagprog\<configurationname> \Daten\<ecufam>.

              :   SWTCONFX.DAT, HISTORIE.BSU, SGIDC.AS2, SGIDD.AS2 INFO.GER NFS\Data\Gdaten   <root>\Diagprog\<configurationname> \Daten\<ecufam> .   HWNR.DA2 KFCONFXX.DA2 <root>\Diagprog\<configurationname>\Daten\<ecufam> .

  PABD: ,   WDP KFCONFXX.DA2   NFS\Sgdat <root>\Diagprog\<configurationname>\Daten\<ecufam> directory.

  P-SGBD: ,   WDP KFCONFXX.DA2   EDIABAS\ECU <<root>\Diagprog\<configurationname>\Daten\<ecufam>

-                              (   )

                       *.INI   <root>\bin\ <root>\ Diagprog\\<configurationname>\NFS\bin\.

                       *.INI and *.DAT <root>\cfgdat   <root>\ Diagprog\<configurationname>\NFS\cfgdat\..

                       *.INI <root>\EDIABAS\bin\   <root>\ Diagprog\<configurationname> \EDIABAS\bin\ directory.

5.2.3 _____

Import/Export -> Delete -
assembly line data.

:

. 5-21:   ;

flash   Comfort
mode.   flash-   .

,

:
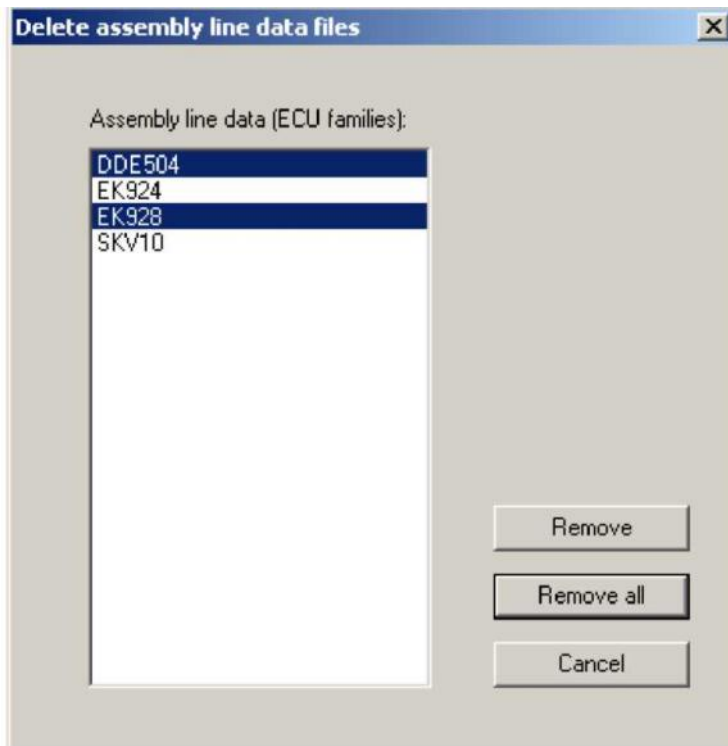
. 5-22:

(   )

.   ,

,   .

(SGBD/PABD)   ,

,   "kfconfxx.da2",   . .

.

"Remove",   WDP
"kfconfxx.da2"   "hwnr.da2".

:

. 5-23:   ;   **"Remove"**

                                        "Remove all",   WDP   ,
"kfconfxx.da2"   "hwnr.da2"
          , .   «   »   WDP
                                                                                                                            :
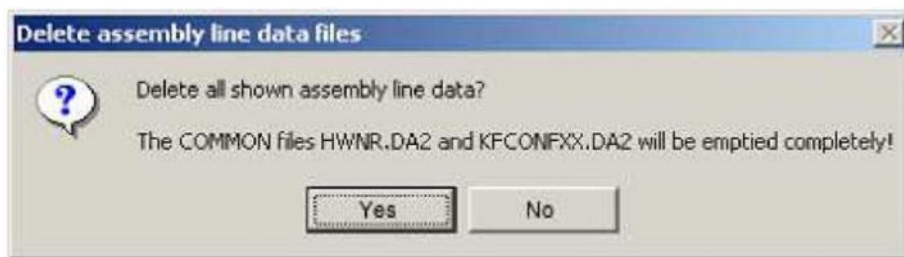
. 5-24:   ;   **"Remove all"**

              "Yes",

              "No",   ,

               "Cancel",   ,

5.3   Communication

WinKFPT   :

•

•

                    "HW   interface"
                    (EDIC, ADS,   . .).
                    "HW   interface"
                                                                    WINKFPT.INI ("3.4.2 Configuration in
WINKFPT.INI").

                    "Diagnosis protocol"
                                                         ,   (BMW-Fast,
KWP2000,   . .).

                    "Diagnosis   protocol"
                                                                    .

                                                              (Comfort mode)

PABD   P-SGBD (Expert mode).

5.3.1

Communication   HW interface.
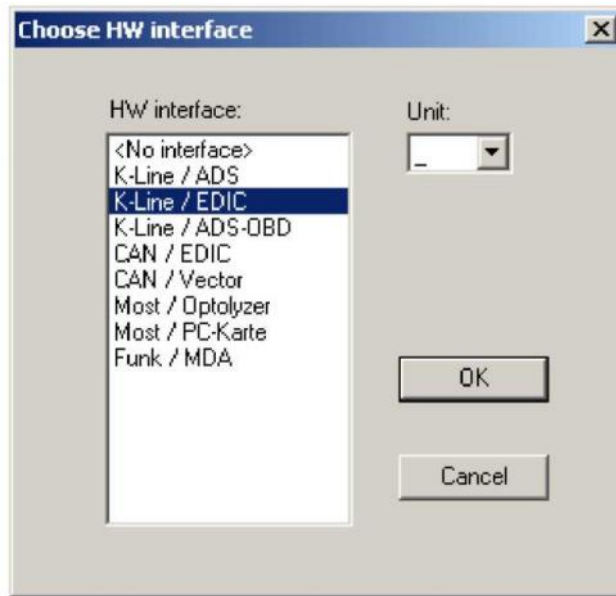
5-25:

"HW   interface"

WINKFPT.INI.

WINKFPT.INI   ("3.4.2 Configuration in *WINKFPT.INI")*   .

(_, A, B, C, D, E)

EDIABAS
,
:

• **"HW interface"** .

• .

,   **"_"**
(   )

• **"OK".**
WinKFPT   ,
"HW   interface"   .
304   (   )

5-26:

,
.

WinKFPT   +
,   :

5-27:   **Dialog mode**

WinKFPT   ,   ,
"EDIABAS.INI"   (. "3.4.4 Configuration in *EDIABAS.INI")*.

                                                                                                                            WinKFPT
                         -INTERFACE=<HW interface>   -UNIT=<Unit
identifier>.

5.3.2 _____

                                                                             Communication Diagnosis
protocol.
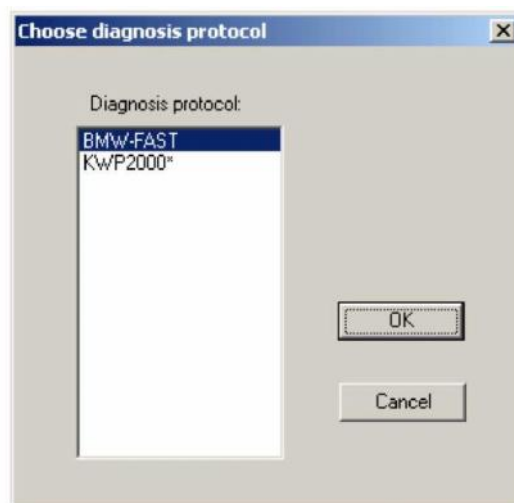
. 5-28:

"Diagnosis protocol"

.

(Comfort mode)
PABD   P-SGBD (Expert mode).

WinKFPT
"DIAGNOSEPROTOKOLL_LESEN"   P-SGBD.
,
.   ,

:

"Diagnosis protocol" .

"OK".

5.4 Configuration

:
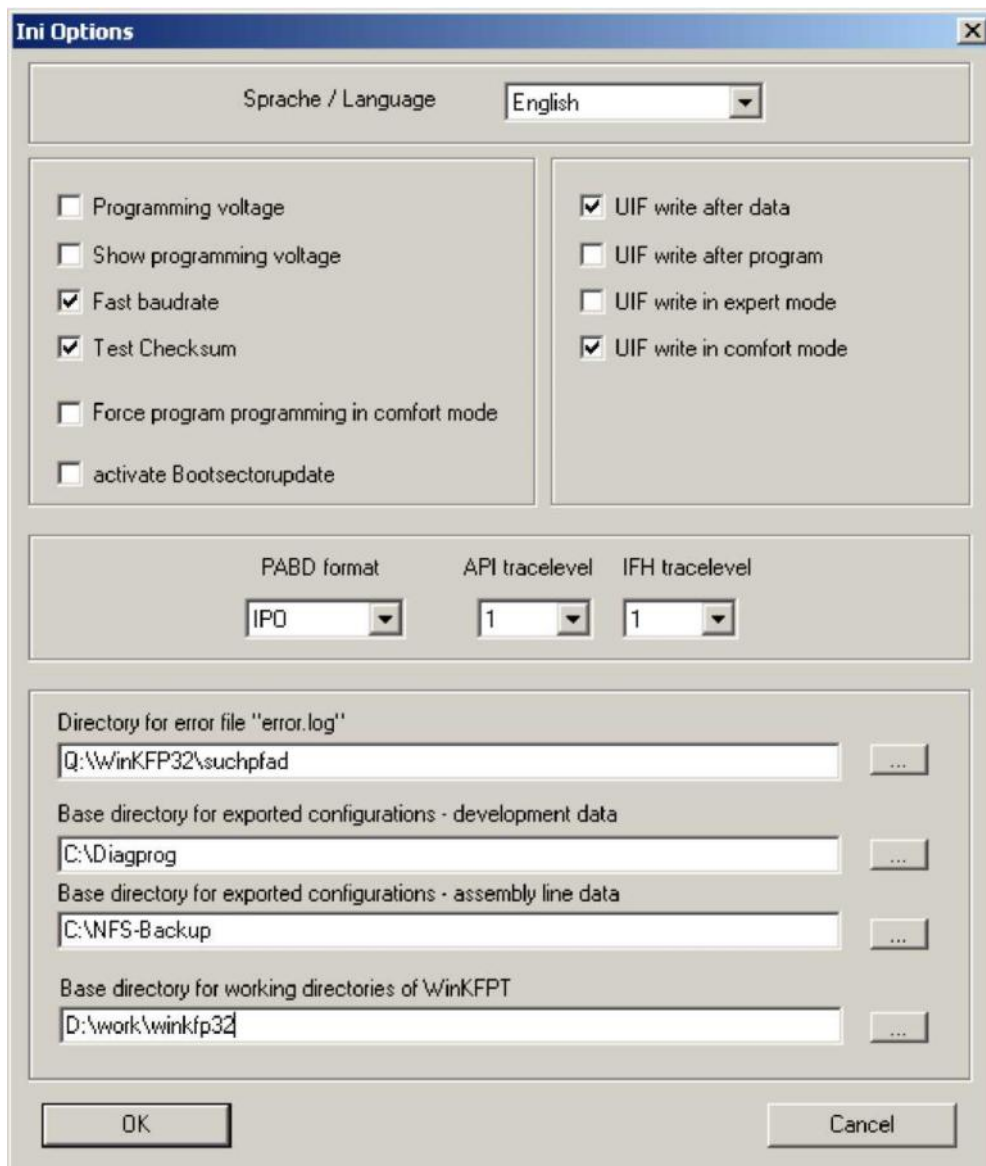
. 5-29:

INI-   :

	INI-	
Sprache / Language	SPRACHE	WinKFPT. : German (ger) English (eng).
Programming voltage	U_PROG	ON OFF flash-
Show programming voltage	ANZEIGE_U_PROG	(ON) (OFF) flash- .
Fast baudrate	SCHNELLE_BAUDRATE	, (ON) (OFF) flash-
Test Checksum	TEST_CHECKSUMME	, (ON) (OFF)
activate Bootsectorupdate	BsuActive	, , . . . flash of an NAAB- .
Force program programming in comfort mode	PROGRAMM_ERZWINGEN	, , flash- Comfort mode, , .
UIF write after data	AIF_SCHREIBEN_NACH_DATEN	(ON) (OFF) UIF Comfort Expert mode.
UIF write after program	AIF_SCHREIBEN_NACH_PROGRAMM	(ON) (OFF) UIF Comfort Expert mode
UIF write in expert mode	EXPERT_MIT_AIF	(ON) (OFF) UIF flash- Expert mode.

UIF write in comfort mode	KOMFORT_MIT_AIF	(ON) (OFF) UIF flash-Comfort mode.
PABD format	CabdFormat	, WinKFPT PABD IPS :PABD IPO: PABD
API tracelevel	API_TRACE	API Ediabas (0 —).
IFH tracelevel	IFH_TRACE	IFH Ediabas (0 —).
Directory for error file "error.log"	ErrorLogPath	*ERRORn.LOG*
Base directory for exported configurations - assembly line data	KomfortKonfPath	(Comfort mode).
Base directory for working directories of WinKFPT	ExpertKonfPath	: cfgdat, data, sgdat etc.

"OK"

INI-   ,   ,   INI-
     .   ,
             , WinKFPT,
  INI-   .

                    PABD   PABD   ,
PABD   Expert mode   PABD   Comfort mode
                                    (ZB-   ).

6   WINKFPT

MAIN MENU

COMFORT-MODE   **EXPERT-MODE**

Clear all settings

Prog. settings phase, Level 1

load **PABD**
load **P-SGBD**

FINISHED

Prog. settings phase

enter **ZUSB**
choose **ZUSB**
update **ZUSB**

enter **VIN**

FINISHED

NO ← PABD and P-SGBD selected?

YES

Prog. settings phase, Level 2

enter ECU-Address
load Dataset - Program
load Dataset - Data

FINISHED

ZUSB entered/selected? and VIN entered?

NO

YES

Prog. execution phase

Do program
Do program update

Comfort mode

Expert mode

Prog. execution phase

Dataset Data selected? — YES → prog. data

Dataset Program selected? — YES → prog. program

Expert mode

Comfort mode

Special functions   **Diagnosis functions**

Read UIF
Read ECU Baudrates
Read and write calibration values   read ECU status
VS2/DS2 mode   read ECU identification
EWS alignment   read ECU internal temperature

. 6-1:   -   **WinKFPT**

6.1   :   WinKFPT

WinKFPT.

WinKFPT:

• Comfort mode

• Expert mode.

. 6-2: **WinKFPT**

,

:

-

-   .

:

-   flash-

-                              flash-

"   "   (. "9

          ").

Comfort mode	. . < >
Expert mode	P-SGBD PABD NAAB < >

. 6-1:

■<u><Vehicle identification number></u>

VIN   (   )   flash-

(UIF).

Flash-   /   UIF
"winkfpt.ini".

■ <u>   </u>

Expert mode

.

–   –

,

.

.

WinKFPT

■ <u>   </u>

Comfort mode,   ,   flash-

    BMW

6.1.1   Comfort Mode

flash-   ,

,   ,

.

flash-   Comfort mode
(. <u>"5.2.1</u>
<u>   Import "</u>).

Comfort mode   :

>   (ZUSB   ),
                       ,   ZUSB-   ,   VIN
     UIF   ,   flash-

>
,
,,

     BSU

6.1.1.1   Comfort Mode

Comfort mode   **"Comfort mode"**
       <F1>   .

          "Comfort mode"   :
:   (see "Fig. 6-1: Function start menu of WinKFPT").

                        Comfort mode (. "   . 7-1:
              Comfort mode").

Expert mode (. "   . 8-1:

Expert mode").

PABDs i   IPO   Comfort mode.   IPS

,   Comfort mode

:

Winkfpt Windows Application

You are about to enter the comfort mode, but IPS is still set as PADB format. If you proceed, the format will be set to IPO.

[OK]   [Cancel]

. 6-3:   **Comfort mode**

"OK",   PABD   IPO;
"Cancel",   Comfort mode.

"Comfort mode"   Comfort mode
,   required   for   flash-

.

"Comfort mode",
Comfort mode   :

ECU address   integration position

Diagnosis protocol

PABD

P-SGBD

:

Vehicle identification number

Assembly identification number

Hardware number   .

"Comfort mode",
Expert   mode
,   Expert mode.

6.1.1.2   **Comfort Mode**

Comfort mode   :

-                    Expert mode

-                            Comfort mode.

Expert mode   **"Expert mode".**

"Expert   mode",
Comfort mode:

Vehicle identification number

Assembly identification number

Hardware number

:

• **ECU address**   **integration position**

• **Diagnosis protocol**

• **PABD**

• **P-SGBD**

Expert mode

-            2 (.:   . 8-1:   –
2   Expert mode).

Comfort mode
:

Expert mode

Cancel (   )

Done (<F8> Expert mode)

Comfort mode

Done (**<F8>** Comfort mode)

WinKFPT   (6-2
WinKFPT)

6.1.2 Expert Mode

(PABD, P-SGBD
)   flash-   .

flash-   Expert mode
(. "5.2.1

Import ").

Expert mode
:.:

-

- «   »   «   »   .

-   ,

!

''

,   ,

.

.

Expert mode, (GUI)
(ZB number)
"COAPI.INI" , EXPERT_MIT_AIF=ON
"WINKFPT.INI".

ZB- UIF.

UIF ZB – , :

- WinKFPT.

- **"COAPI.INI"** (. "3.4.1 **COAPI.INI")**.

- WinKFPT.

6.1.2.1 Expert Mode

Expert mode **"Expert mode"** **<F2>**

"Expert mode" :

- (. " . 6-1:
WinKFPT").

- Comfort mode (. " . 7-
1: Comfort mode").

- Expert mode (. " . 8-1:
Expert mode").

"Expert mode" -
1 2 Expert mode ,
flash- .

"Expert mode",
Expert mode :

"Expert mode",
Comfort mode :

• **Vehicle identification number**

• **Assembly identification number**

• **Hardware number**

:

• **ECU address integration position**

• **Diagnosis protocol**

• **PABD**

• **P-SGBD** .

6.1.2.2   Expert Mode

Expert mode   Comfort mode.

                    Comfort mode   **"Comfort mode".**

                    "Comfort mode",
                              Expert   mode
              ,   Expert mode

7   COMFORT MODE

              Comfort mode   :

-

-

                        ,   flash-

                                                                            flash-

		,
	• ZUSB • ZUSB • • VIN • е	
	• ZUSB • ZUSB • •	( ) ZUSB–

. 7-1   Comfort mode

7.1   Comfort Mode

                        Comfort mode:

          :

-      ZUSB-

-        ZUSB-

-

-

-   .

7-1   **Comfort mode**

7.1.1   **:**   **ZUSB-**

ZUSB-   **"Enter ZUSB"**
<F1>   .

                ,   ,
(ZUSB-   ).
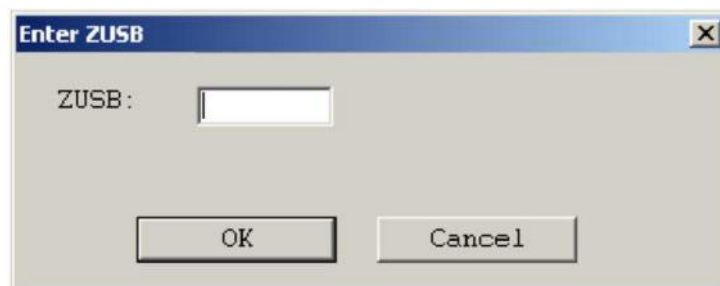
                7-2   **ZUSB-**

        !

ZUSB-   ,   ,

             "Cancel",   .

         "OK", WinKFPT   ,   ZUSB-
<EcuFam>.DAT
\<root>\DATA.

             ,   ZUSB-
                :

7-2   -ZUSB-

                                                                    ,   ,
                                                              :

. 7-3:   ,

                                                                    ,
                                        .   –
                                                        (.   "7.1.2   :
ZUSB -   ").
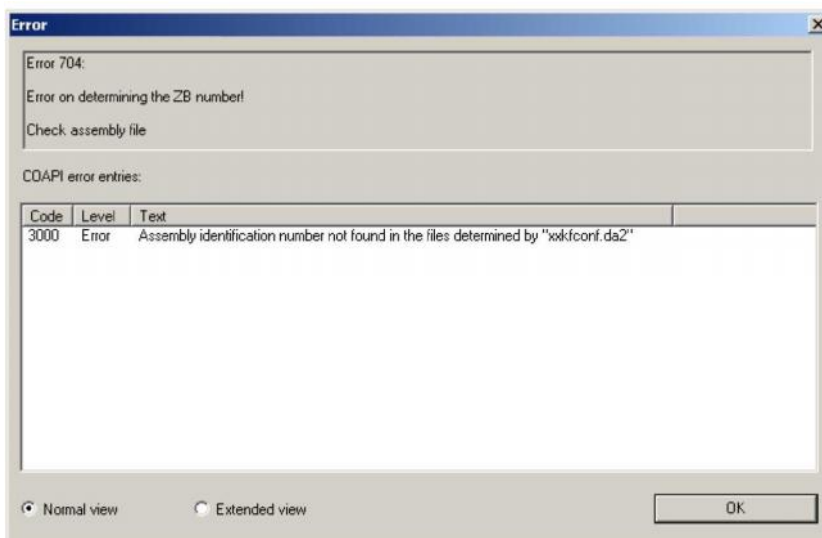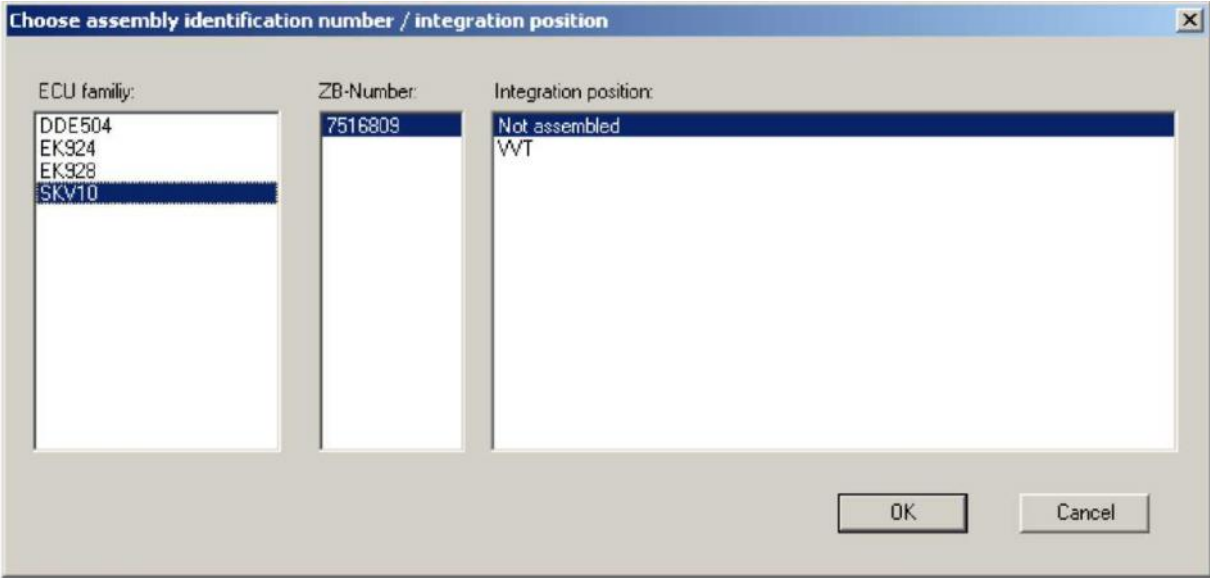
                                                                                     "Integration
position"   .

                "Cancel",   ZB-

                "OK",   ZB-

7.1.2   :   ZUSB-
                        ZUSB-   **"Choose ZUSB"**
                <F2>   .

                                                                                                    ,   (. "
    . 7-3:   ,
                                        ").
                                        :

• **"ECU family"**
-

• **"ZB Number"**

-   ,

• **"Integration position"**

-   ,

   ,   .   ,

                                      .

       "ECU family"   ,

                          <ecufam>.DAT,   ZB-

   ,   **\<root>\data\<ecufam>.**

        "ZB Number"   ,

   <ecufam>.DAT

         "Integration position"

                      \<root>\data\gdaten*INFO.ENG*

                                                                    "Integration

              ,   **"Integration**
position"   .

                    "Cancel",   ZB-

             "OK",   ZB-

7.1.3   :

                                                                   "Update
ZUSB"   **<F3>**   .

                                                         ,

                                              :
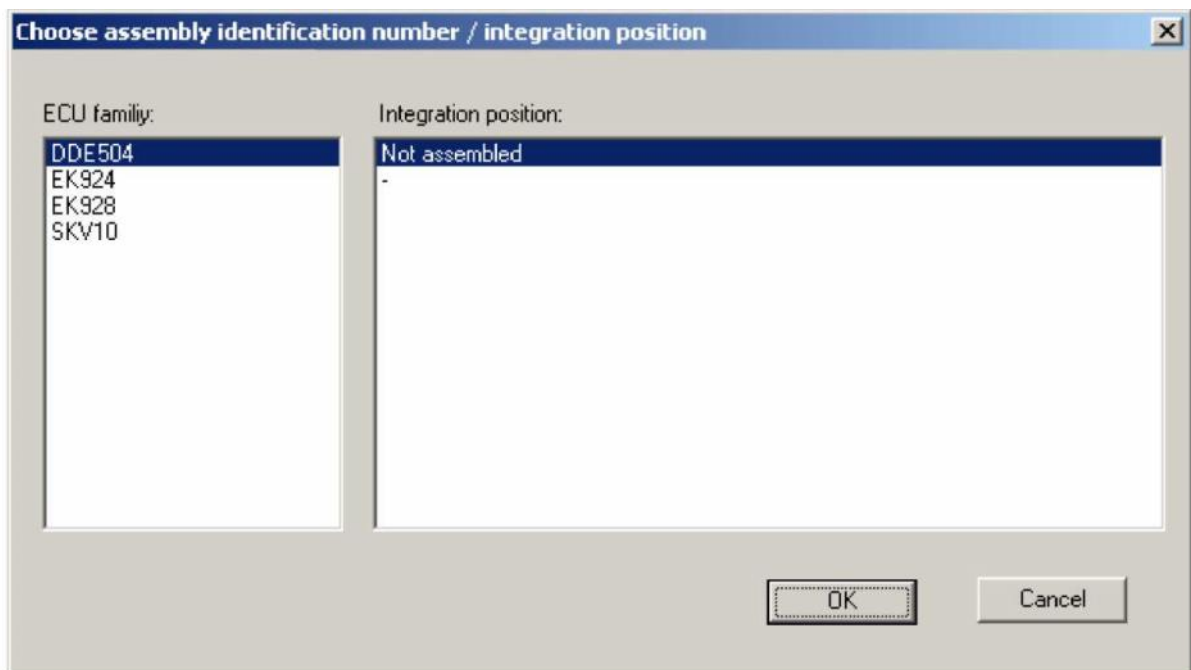
. 7-4:

:

• **"ECU family"**

• **"Integration position"**

, ,
. ,

..

"ECU family"
<ecufam>.DAT, ZB-
, **\<root>\data\<ecufam>.**
"Integration position"
\<root>\data\gdaten*INFO.ENG*

"Integration
, **position"** .

"Cancel", ZB-

"OK",
(,)

7.1.4 :

"Enter VIN"
<F4> .

KOMFORT_MIT_AIF=ON *WINKFPT.INI*
, :

Enter vehicle identification number	✕
Enter VIN: [_____]	
OK	Cancel
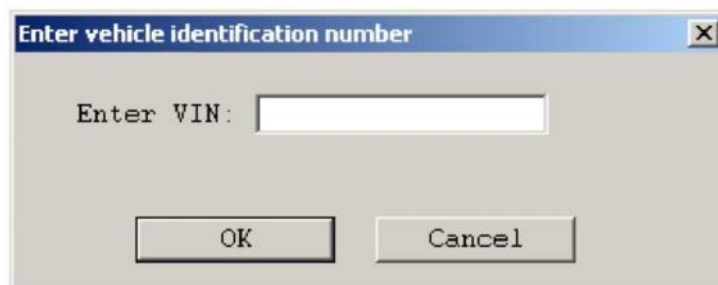
. 7-5:

!

7 17 -
:.

. 7-6:

"Cancel",

"OK",

:

"Enter ZUSB" *"Choose ZUSB"*, ,
ƒ **KOMFORT_MIT_AIF=ON** *WINKFPT.INI Flash-*

"Update ZUSB",
"Enter VIN"
UIF *UIF.*

"Enter VIN",
UIF.

7.1.5 : Done (Comfort Mode)

"Done"
Comfort mode.

"Done" **<F8>**

(. . 6-1: WinKFPT).

"Enter ZUSB" **"Choose
ZUSB"**, **"Program"**
Comfort mode

:

KOMFORT_MIT_AIF=ON
WINKFPT.INI, ,
flash- ,
(. . 9-1:
"Special" "Diagnosis",).

• **"Update ZUSB"**,
"Prog. ZB-Update"
Comfort mode.

7.2   **Comfort Mode**

Comfort mode:

"   /   "

"   "

"   "

"   "

"   "

"   "

"PABD"

"P-SGBD"

The following functions are available in the programming execution phase of Comfort mode:

 - flash-   (   )

-                                 flash –   (   )

-                              (Special, Diagnosis)

                                                                                        Comfort   mode
                                                                    Comfort mode   Expert

mode.

F1	Comfort mode	F2	Expert mode	F3	Program	F4	Special
F5	Diagnosis	F6		F7		F8	
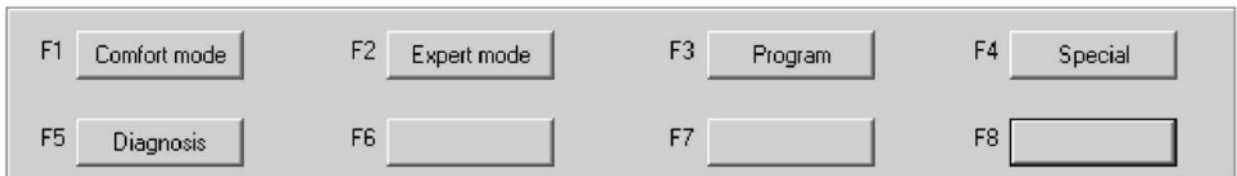
      7-7   **Comfort mode**

7.2.1   **: Flash -**

                                                                                   "Program".

                                                                  only ZUSB-
            "Enter ZUSB"   **"Choose ZUSB"**   /   (
KOMFORT_MIT_AIF=ON   *WINKFPT.INI)*
                          Comfort mode.

                                                   "Program"   **<F3>**

                          flash-
Comfort mode.

                                          KOMFORT_MIT_AIF=ON
WINKFPT.INI   ,   flash-
                                 :
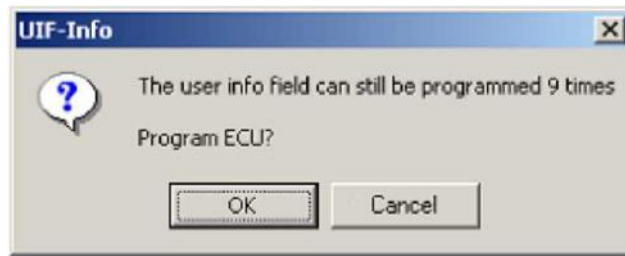
7-8   ,   **UIF**

                        .

                   ,   *UIF*   *PABD*

            "Cancel",   ,

            "OK",

7-9 Flash-

                                                    (0 - 100 %)

            ..
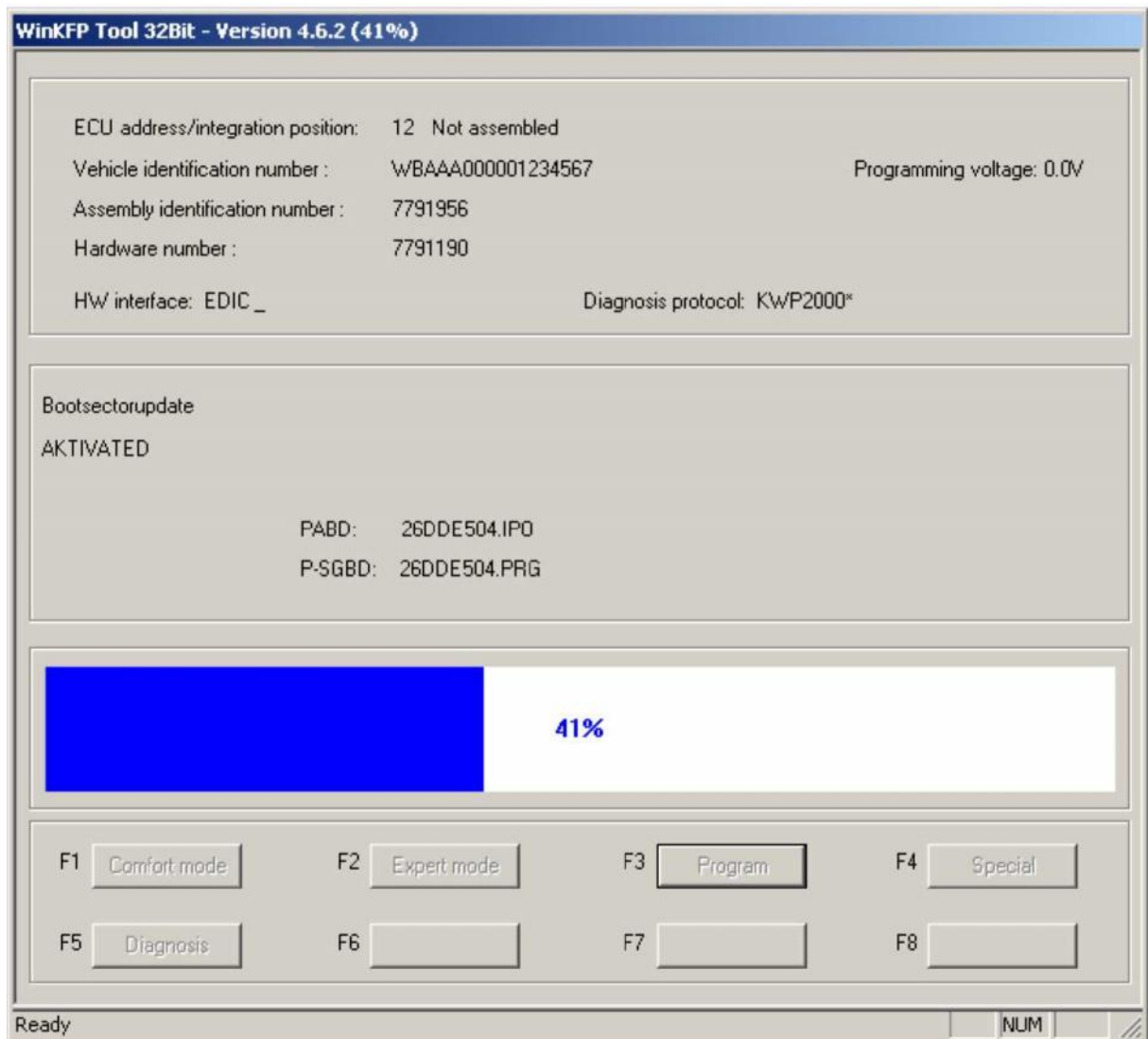
"ANZEIGE_U_PROG"   **ON**

WINKFPT.INI, **"Programming voltage"**

flash-   ,

<<Programming OK>>

.

    7-10

"KOMFORT_MIT_AIF"   *WINKFPT.INI*   **OFF.**

,

                                                                              ,

"Program" (**<F3>).**

                                                               (

                                                                 .)

                           .

                                , <<Multiple programming finished>>

     7-11

7.2.2   **:**

                                                                        "Prog. ZB-

Update".

            "Update ZUSB"   Comfort mode.

                               "Prog. ZB-Update"   **<F3>**

         .

                                                                .

                                                                   BSU

(   )   .

                                                                            ,

UIF   .

                                                   ,   (   )

                                     \<root>\data\<ecufam>\<ecufam>.his

(= ZUSB-   ).
        ,   ZUSB -   .

                                                                                ,
        :

Result – Assembly identification number update

? ECU -> ZBNr. from UIF: 7791871

Update -> current ZBNr.: 7791871

Program current ZBNr.?

Yes   No
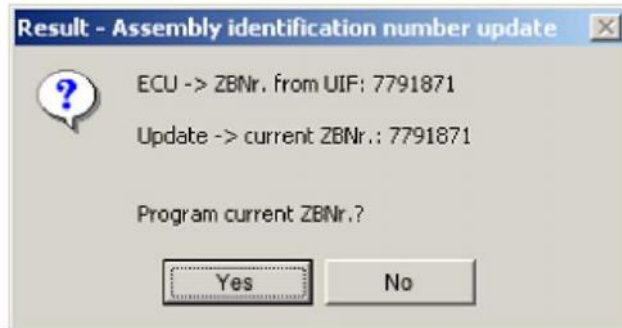
7-12   **ZB-**   **ZB-**

        "No",

                "Yes",   (   )
                                .

                                KOMFORT_MIT_AIF=ON

WINKFPT.INI,   flash-
                                :

UIF-Info

? The user info field can still be programmed 9 times

Program ECU?

OK   Cancel

. 7-13:   ,   **UIF**

        :

                ,   *UIF*   *PABD*

        "Cancel",   ,

        "OK",

                                                                (0 - 100 %)

                ..

                                        "ANZEIGE_U_PROG"   **ON**
WINKFPT.INI, **"Programming voltage"**

                                                ZUSB
<<ZUSB-Update programming OK:

Info
ZUSB-Update programming OK
OK

. 7-14:
ZUSB

"KOMFORT_MIT_AIF" *WINKFPT.INI* **OFF.**
,

"Prog. ZB-Update" (**<F3>).**

(
.)
.

, <<Multiple ZUSB-Update programming finished>>:

Info
Multiple ZUSB-Update programming finished
OK

. 7-15:
ZUSB

8   EXPERT MODE

Expert mode   :
-            1
-            2
-            .

           1
.

           2
ECU .

flash-
.

		,

1	• PABD • P-SGBD •	PABD, P-SGBD
2	• • NAAB • • •	PABD P-SGBD -
	• NAAB • • • •	(PABD P-SGBD), (/) < >

8-1: Expert mode

8.1 1 Expert Mode

1 Expert mode:

PABD

P-SGBD

1

. 8-1: 1 Expert mode

8.1.1 : PABD

PABD **"PABD"** **<F1>**
.

, PABD.
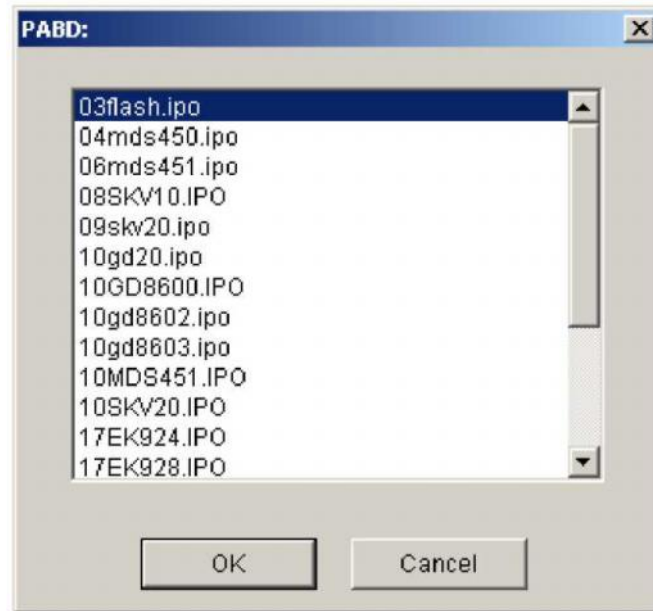
. 8-2:   **PABD**

(PABD)   INPA(   ).

WinKFPT,

;

CABI-   .

CABI-   the COAPI, WinKFPT

PABD.

PABD-   ,   ::

17EK924.**IPS** -> PABD

17EK924.**IPO** -> PABD

                                                   <root>\SGDAT

IPS   IPO.

CabdFormat   *WINKFPT.INI*   *COAPI.INI* ("3.4.1
COAPI.INI", "3.4.2   *WINKFPT.INI")*.

•   **"Cancel",**   PABD-   . PABD-

•   **"OK",** PABD-   **"PABD"**

PABD-   , WinKFPT

P-SGBD –   .

P-SGBD   :

1   .

P-SGBD

2.

PABD   P-SGBD,   ,
.

"Diagnosis protocol"

(."5.3.2   ").

8.1.2   :   P-SGBD

P-SGBD   **" P-SGBD "**
<F2>   .

,   P-SGBD:

| P-SGBD: |
| 03Flash.prg |
| 04MDS45.PRG |
| 05Flash.prg |
| 08SKV10.PRG |
| 17EK924.PRG |
| 17EK928.PRG |
| 19EK92.PRG |
| 21ek92.prg |
| 26DDE504.PRG |
| Table.prg |
| TestV.prg |
| TMode.prg |
| TMode99.prg |
| OK   Cancel |
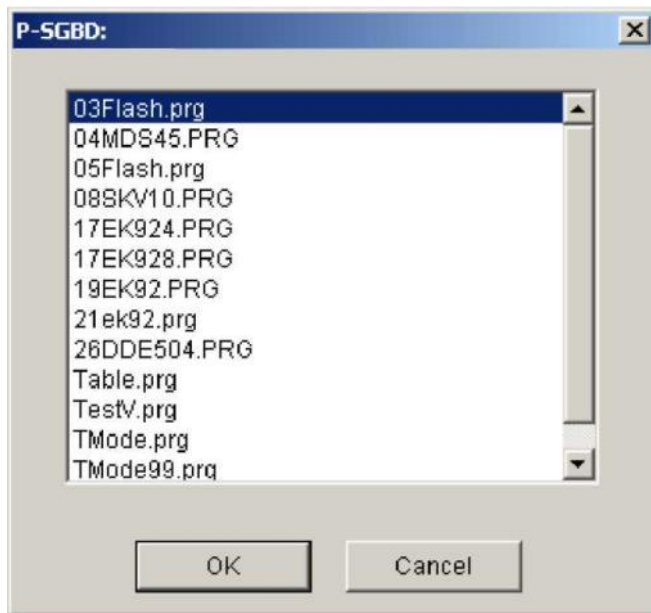
. 8-3:   **P-SGBD**

                                                        <ediabas>\ECU
PRG.

• **"Cancel",**   P-SGBD -   . P-SGBD -

• **"OK",** PABD-   **"P-SGBD "**

.   P-SGBD -   , WinKFPT
PABD –   .
PABD   :
1   .
PABD
2..

PABD   P-SGBD,   ,
.

"Diagnosis protocol"

(."5.3.2   ").

8.2   **2   Expert Mode**

2   Expert mode:

-
-                     –
-                     –
-                     - NAAB
-                                2
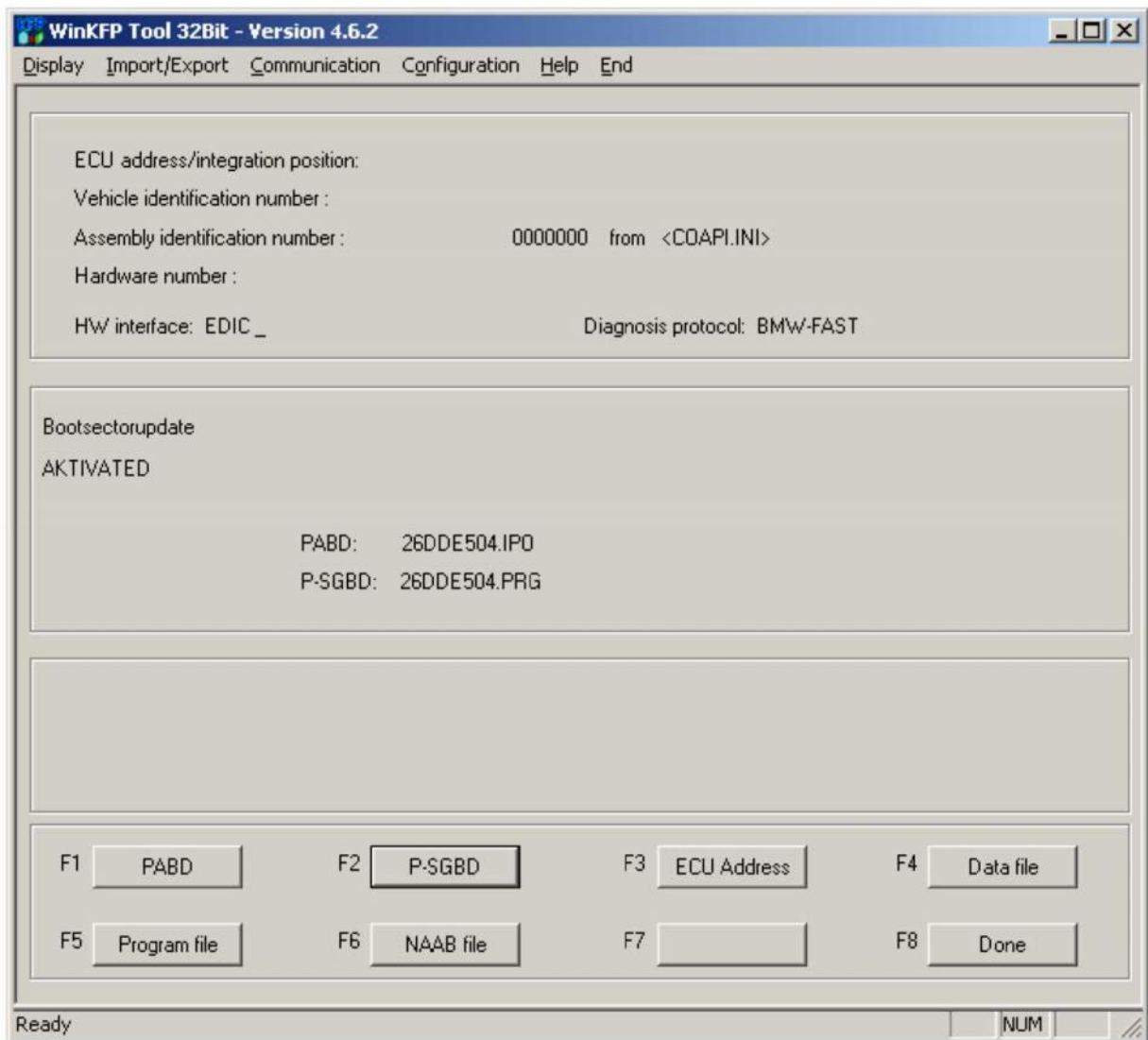
8-4:   **2   Expert mode**

8.2.1   **:**

                                                                                        "ECU Address"

                                    <F3>   **.**

. 8-5:

!

2

.

• "Cancel", .

• "OK",

P-SGBD

.

P-SGBD,
"ECU address/integration position".

,

.

,

P-SGBD ,
P-SGBD **"P-SGBD using internal address"**
"ECU address/integration position".

8.2.2 : - NAAB -

NAAB:

. ,

.

.

NAAB **"NAAB file"**
<F6> .

NAAB :
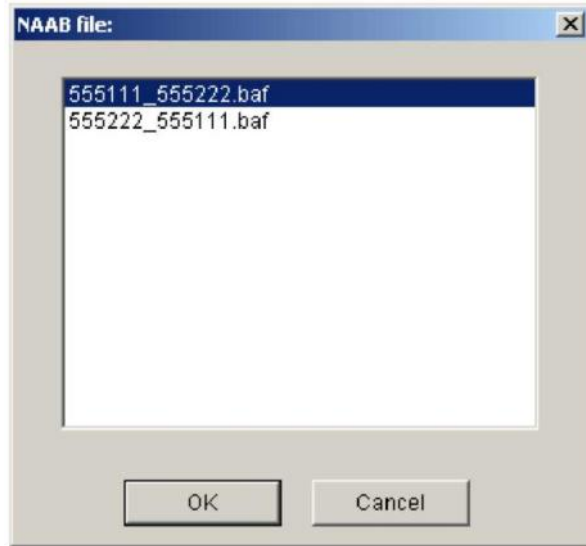
. 8-6: **NAAB**

\<root>\data\develop
0BA BAF.

- **"Cancel",** NAAB - . NAAB -

- **"OK",** NAAB - **"NAAB file".**

NAAB UIF.
:

- :

( )
(" . 8-1:
Expert mode"). .
Expert mode
,

- :

.
Expert mode

- :

.

8.2.3 **:** **–**

"Program file" **\<F5>**

:

. 8-7:

\<root>\data\develop
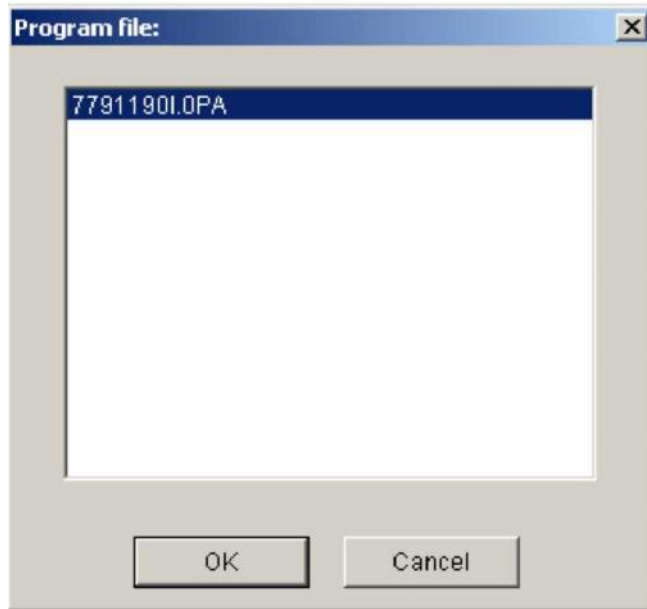
0PA   PAF.

- **"Cancel",** .

- **"OK",**

  "Program file"

  WinKFPT   ,

  ,

  (: $REFERENZ).

  :

- :

  (   )

  ("   . 8-1:

  Expert mode").   .

  Expert mode

  ,

- :

  .

:

  ,

  Expert mode

- :

  .

:

,

Expert mode

- .

:

Error 500:

Wrong ECU identifier

DS: 00019700, ECU: 008

OK

. 8-8:

.

"DS:" **"ECU:".**

Expert mode.

:

.

8.2.4 **:** **–**

"Data file" **<F4>**

,

( ):

. 8-9:

\<root>\data\develop
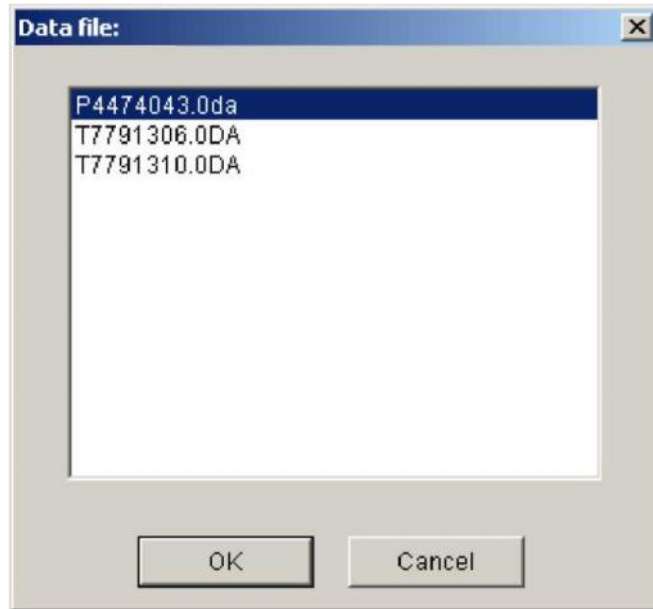
0DA DAF.

- **"Cancel",**   .
  (   )

- **"OK",**

                                                "Data file"

                                        WinKFPT   ,

        ,

                        (: $REFERENZ).

                                                                :

- :

                                                                    (   )
                                        ("   . 8-1:
                    Expert mode").   .
                                            Expert mode

    ,

- :

                                                                        .

        :

                                            ,

                                        Expert mode

- :

                                                        .

:

,

Expert mode

- .

. **8-10:**

.

"DS:" **"ECU:".**

Expert mode.

:

.

8.2.5 : Done (Expert Mode)

"Done"

1 2 Expert mode.

"Done" **<F8>** .

:

-

,

- PABD

,

- P-SGBD

,

- PABD P-SGBD ,

, **"P-SGBD using internal address"** **"ECU address/integration position".**

, ,

:
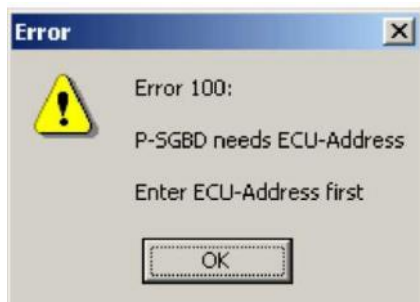
. 8-11:   **Expert mode**

            "OK",   .
PABD   P-SGBD   .
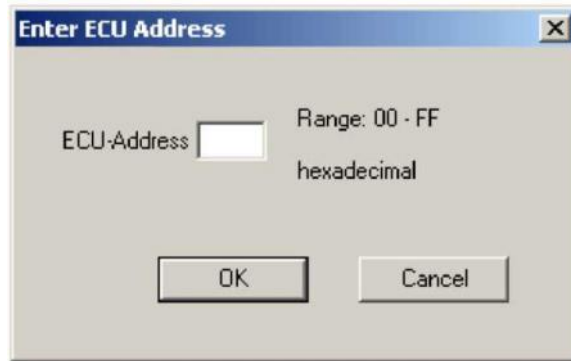
                                         PABD, P-SGBD   ,
                                              (. "9   ").
                              PABD, P-SGBD,
 /   ,
                                                                    Expert mode.

8.3 Functions of the Programming Execution Phase in Expert Mode

                                                                                   Expert
mode: :

• "ECU address"

• "Vehicle identification number" (Vehicle identification number is displayed only if the **EXPERT_MIT_AIF** entry in *WINKFPT.INI* is set to **ON)**

• "HW interface"

• "Diagnosis protocol"

• "Data file"

• "Program file"

• "NAAB file"

• "PABD"

• "P-SGBD"

Expert mode:

• •   NAAB (   )

• •   (   )

• •   (   )

• •   (,   )

• •
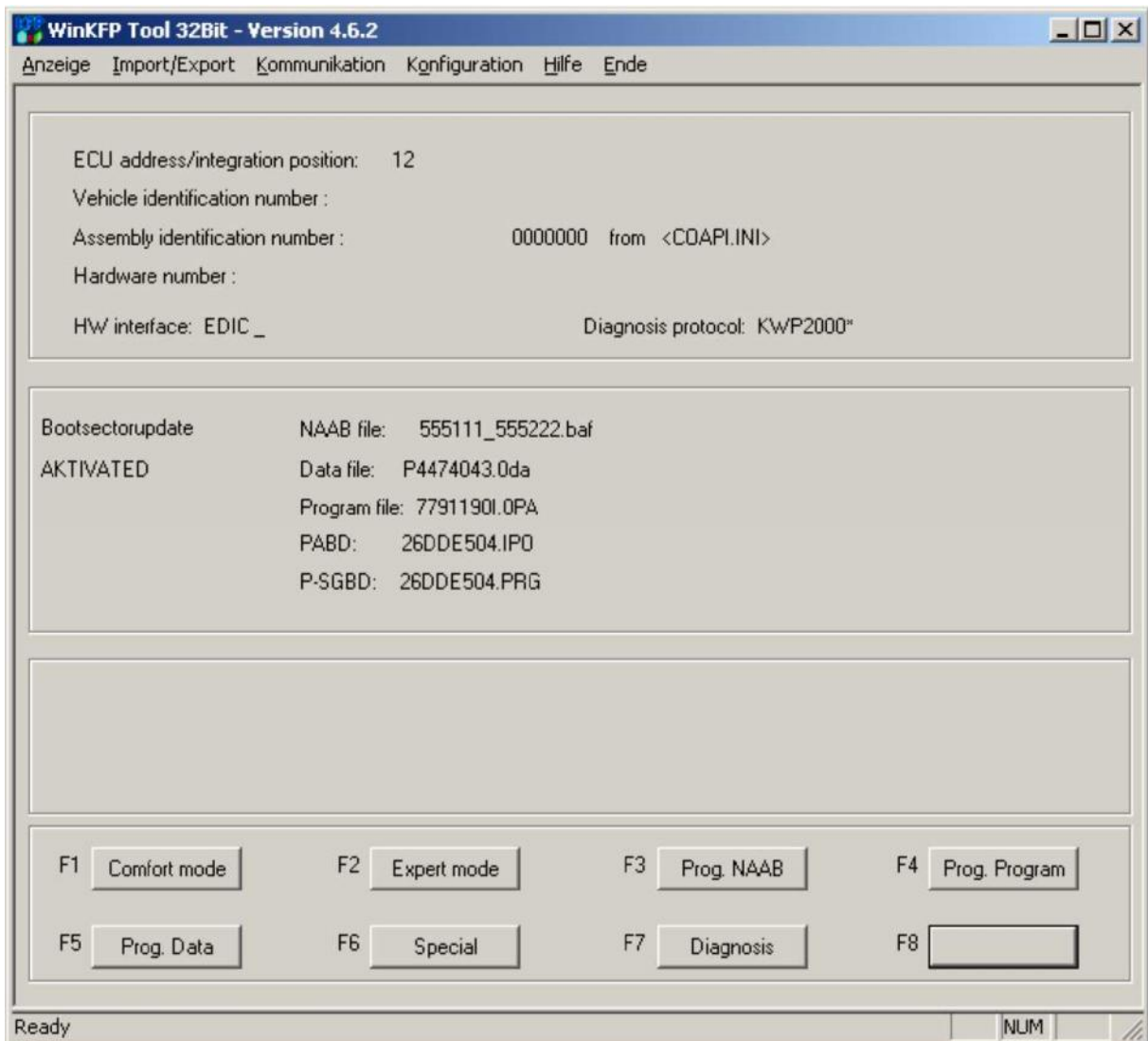
. 8-12:   **Expert mode**

8.3.1   **:**   **NAAB**

                            "Prog. NAAB"   **<F3>**

                         NAAB
    "NAAB file"   2   Expert
mode.

                               (0 - 100 %)

    ..

                     "ANZEIGE_U_PROG"   **ON**
WINKFPT.INI, **"Programming voltage"**

         flash-
             <<Bootsektorupdate OK>> appears:

8-13:   **Expert mode**

8.3.2   **:**

"Prog. Program"   **<F3>**   .

                       "Program file"
      2   Expert mode.

           :

               EXPERT_MIT_AIF   *AIF_SCHREIBEN_NACH_PROGRAMM*
WINKFPT.INI   *ON.*
         :
    UIF   *,*
(*"7.1.4*   *:*   *").*

                                   .
                           :

8-14 :   **UIF**
        .
           ,   *UIF*   *PABD*
                                  (0 - 100 %)
        ..

                            "ANZEIGE_U_PROG"   **ON**
WINKFPT.INI, **"Programming voltage"**
                  flash-   :
<<Programming OK>>

8.3.3 **:**

"Prog. Data" **<F5>**

"Data file" 2
Expert mode.

:

EXPERT_MIT_AIF *AIF_SCHREIBEN_NACH_PROGRAMM*
WINKFPT.INI *ON.*

:

UIF ,
(*"7.1.4* *:* *").*

.

8-15 : **UIF**

.

, *UIF* *PABD*
(0 - 100 %)

..

"ANZEIGE_U_PROG" **ON**
WINKFPT.INI, **"Programming voltage"**

flash- :
<<Programming OK>>

9
WinKFPT :
-
-

:

"Special"
"Diagnosis"

9-1   **Special"   "Diagnosis"**

WinKFPT.

::

1   2   Expert mode

PABD, P-SGBD   (P-
SGBD   )   /

Comfort mode   ZUSB-
/   /
: **"Enter ZUSB", "Choose ZUSB"**   **"Update ZUSB"**

9.1

"Special" (**<F3>)**   Expert   Comfort mode,
WinKFPT
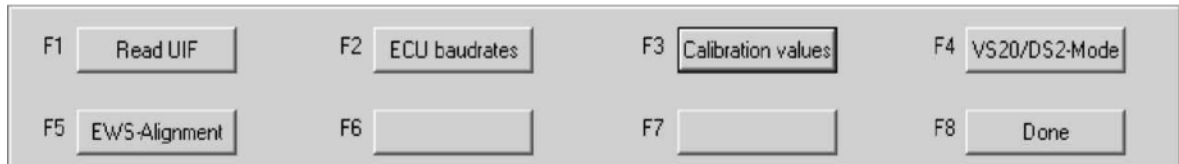
. 9-2: Function menu for the special functions

:

UIF

VS20/DS2

EWS

9.1.1   :   UIF

UIF   **"Read UIF"**
<F1>   .

,   UIF
PABD SG_AIF_LESEN

UIF

UIF   *AIF_<Interface>_<Unit>.OUT*
\<root>\BIN.

AIF_<Interface>_<Unit>.OUT
"Read UIF".

UIF

```
AIF_EDIC__.OUT                                          ×

  Entries of the user info field:                        ▲

  ----------------------------------------
  Entry 1:

  Vehicle identification number: 0000000
  Date: 97.20.2501
  Change index:
  Software number: 7789297
  Office number: 7788548
  Assembly identification number: 7789296
  Seral number: 2324
  Program number: 000|197004106
  Kilometer: 0
  Dealer number: 123234

  ----------------------------------------
  Entry 2:

  Vehicle identification number: 000000ß
  Date: 97.20.2501
  Change index:
  Software number: 7789297
  Office number: 7788548
  Assembly identification number: 7789296
  Seral number: 2324
  Program number: 000197004106
  Kilometer: 0
  Dealer number: 123234

  ----------------------------------------
  Entry 3:

  Vehicle identification number: 0000000
  Date: 97.20.2501
  Change index:
  Software number: 7789297
  Office number: 7788548
  Assembly identification number: 7789296
  Seral number: 2324
  Program number: 000197004106
  Kilometer: 0                                            ▼

                    OK
```

. 9-3:   **"Read UIF"**

UIF   **"OK".**

9.1.2   :

PABD

9.1.3   **:** _____

                                    "Calibration values"
               <F3>

                                                                          (
)   .

                                                  :

-   .

-                      **"Read Calib."**   **<F1>**.

                      .   **"Write Calib."**   .

-   .

-   .

-                      **"Write Calib."**.

                .

                                                  .

9.1.4   **:**   **VS20/DS2** _____

                                                                              PABD

9.1.5   **:**   **EWS** _____

9.2 _____

                             "Diagnosis"   (**<F4>)**   Expert   Comfort   mode,
                             WinKFPT

                                                              :

9.2.1   **:** _____

                             "ECU Status"   **<F1>**

                              :

-
-
-   (ZIF)
-
-                              (   )
-   PABD :

• DATEN_REFERENZ

• HW_REFERENZ

• ZIF

• ZIF_BACKUP

• SG_STATUS_LESEN
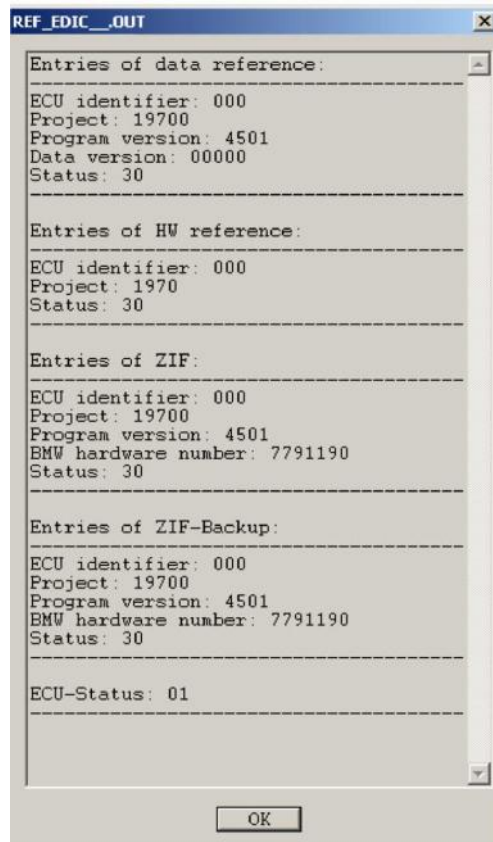
REF_<Interface>_<Unit>.OUT   **\<root>\BIN**

                    REF_<Interface>_<Unit>.OUT
                "ECU Status".

                                                                    :

9.2.2   **:**

       "ECU Ident"   **<F2>**.

                               PABD:

- SG_IDENT_LESEN

- SG_PHYS_HWNR_LESEN

IDENT_<Interface>_<Unit>.OUT   **\<root>\BIN**.

            IDENT_<Interface>_<Unit>.OUT
        "ECU Ident"

                                         :


```
IDENT_EDIC__.OUT                                              [x]

Entries of ECU identification:
----------------------------------------
BMW part number: 7791190
BMW hardware number: 10

Coding index: 27
Diagnosis index: 30
Variant index: 88

Manufacturing date (DD.MM.YYYY): 17.07.2001

Supplier number: 8
Supplier: Bosch

Software number (message catalogue version): 11.1.6
Software number (functional software version): 44.1.0
Software number (operating system version): 2.4.0
Software number (reserved - currently unused): 0.0.4
----------------------------------------

Physical Hardware number: 7789327
----------------------------------------

                      [ OK ]
```

9.2.3   **:**

                "ECU intern. Temp"   **<F3>**

          .

                         PABD

- SG_INNENTEMP_LESEN

      INNENTMP_<Interface>_<Unit>.OUT   **\<root>\BIN**.

INNENTMP_<Interface>_<Unit>.OUT
"ECU intern. Temp"

:

,

:

<ECU internal temperature not supported>>

10   **WINKFPT**

flash-   WinKFPT

:

-                                  –   –
       –

-                               - WinKFPT — EDIABAS —
        —

-                  WinKFPT   COAPI
-                PABD   P-SGBD
-
-                           (PAF, DAF,   . .)

               WinKFPT   ,

                          .

     ,   WinKFPT   :
          COAPI   COAPI

     :

-                        WinKFPT   COAPI:

               ,

                        "winkfpt.txt".
      /
       WinKFPT.

-                        WinKFPT   COAPI:

         ,   COAPI
                      .

       ,
           .

                  COAPI.

      ,   ,
     ,
   , COAPI.   COAPI
      "coapierr.txt.

10.1

«**Normal view**» WinKFPT
COAPI .

"**Extended view**" .
WinKFPT

COAPI


```
Error                                                              [X]

Error  1:

CoapiKfInit: Initialization error!


COAPI error entries:

Code  | Level | Text
1020  | Error | File could not be opened for reading  ..\DATA\gdaten\kfconf??.da2
1040  | Error | Error in file processing (general)  ..\DATA\gdaten\
3017  | Error | coapiKfInit() failed




(•) Normal view     ( ) Extended view                    [    OK    ]
```

. 10-1: **WinKFPT**

COAPI WinKFPT.
COAPI

.

COAPI generally contains
..

"kfconfxx.da2" , <root>\DATA\gdaten,

10.2

10.2.1. WinKFPT

	COAPI 1020, 3017, WinKFPT 1
	• WinKFPT. • ../data/gdaten. • . • ../data/gdaten .
	COAPI 4211, 4206, 1040, 3017, WinKFPT 1
	• WinKFPT. • ../data/gdaten . (, 4206) • • ../data/gdaten .
	WinKFPT 300
	• WinKFPT. • , , WinKFPT. • Ediabas. • , . (.) • (TEOF Ediabas\bin) . - : Ediabas /

10.2.2

	• Comfort mode. • PABD/P-SGBD- • .
	WinKFPT 11
	• . • . • . • . • . • . : • . • , .

	• .
	WinKFPT 111
	• .
	• :
	<EcuFamilyname>.dat
	• (
	. Darwin).

10.2.3

	COAPI 1065, 1000, WinKFPT 106
	•
	<Expert mode>
	• Comfort mode [Done] а ZB –
	.
	• PABD .
	• PABD
	Ediabas
	COAPI 2000, WinKFPT 106
	•
	<Expert mode>.
	• Comfort mode [Done] а ZB –
	.
	• SGBD .
	• SGBD
	Ediabas
	COAPI 3000
	• Comfort mode ZB- .
	• ( ) DAT- Z - .
	•
	ZB-
	WinKFPT 500 503
	• Expert mode.
	• Expert mode.
	• .
	/
	• / .
	• , .
	• , / .
	COAPI 2020
	• Expert mode.
	• Expert mode.
	• :
	• .

	• . • . ,
	COAPI 1020
	• [Program] Comfort mode. • (HWH HIS) . • , • .
	COAPI 4209 4211, 4206, 1040, 3000
	• [Program] Comfort mode. • (DAT, HWH HIS) . (4206) • , • .
	COAPI 4204, 1040
	• [Program] Comfort mode. • . (4204) • , • .
	COAPI 4220 4209, 4221, 1040,

	• Expert mode.
	• [Program] Comfort mode.
	• . (
	        4221)
	    .
	• ,
	
	• .

	WinKFPT 100
	• Expert mode PABD SGBD, [Done]. • SGBD . • .
	WinKFPT 102 103
	• Expert mode . • • .
	WinKFPT 107
	• (UIF). • - . • .

	WinKFPT 108
	• ZB- Comfort mode. • ZB- . • 7- t ZB -

10.2.4

	C API 2020 2021
	• .. • • . • . • , . • . • ,
	COAPI 1060

	• **\<Prog. Data\>**,,
	  PABD, P-SGBD
	  Expert mode.
	
	• .
	• .
	  .
	• .
	• ,
	  HW
	
	  Communication HW interface
	  .
	  , .
	• , .
	•

	COAPI 2064: Delete error in coding data (e.g. ZCS)

	• **\<Prog. Data\>**,,.
	
	  .
	  , PABD, P-SGBD
	  Expert mode. Expert mode
	  \<Done\>.
	
	  flash-
	  \<Prog. Program\>.

CABD –

CABI –

COAPI –

Comfort mode –   ,
                          ,   ,   (UIF   )

DAF –   flash-

Expert mode –   PABD,P-SGBD,
 /

HIS –   (   )

IFH –

INPA –   Interpreter for test sequences

Interface –   (EDIC, ADS,MOST)

IPO –

IPS–

NAAB –   .   ,

                                                                                    .

PABD –

PAF–   flash-

P-SGBD –

SGBD –

UIF –

Unit –   ,   _, A, B, C, etc.

WDP –

                                                                        BMW

ZIF –   . ZIF
                                                .

ZUSB-   , ZB –   –