Steuergeräte-Update an BMW F-Modellen

Achtung:

Bei Verbindungsabbrüchen beim Flashen oder durch fehlerhaftes Vorgehen können Schäden an den Steuergeräten entstehen. Jegliche Haftung für mittelbare und unmittelbare Schäden wird ausgeschlossen. Alle Vorgänge erfolgen auf eigene Verantwortung.

Was wird benötigt?

- Ein professionelles ENET-Interface (wie das MaxDia ENET)
- E-Sys (in einer aktuellen Version, wie 3.26.0)
- Aktuelle PsdzData-Files FULL (!) (z.B. 56.2)
- Laptop/PC mit Ladegerät und Windows-Betriebssystem
- Professionelles Ladegerät für die Fahrzeugspannung (Mindestens 50Ampere, empfohlen 70Ampere)

Grundsätzliches

In dieser Anleitung warden beispielhaft folgende Steuergeräte aktualisiert:

- CMB_MEDIA
- HU_CIC
- KOMBI
- ZGW

Die Update-Schritte sind identisch für andere Steuergeräte. Wichtig ist, dass die Abhängigkeiten identifiziert werden.

Wenn das ZGW-Steuergerät involviert ist, sollte dieses zuerst aktualisiert werden (die Transaktions-Liste von E-SYS wird dafür sorgen). Das Updaten aller Steuergeräte ist genauso simpel möglich, wie das Updaten einzelner Steuergeräte. Die Steuergeräte werden in Schritt 15 ausgewählt.

Abhängigkeiten

- HU_CIC ist abhängig von: 38 + 14 (ZGW)
- KOMBI ist abhängig von: 38 + 10 + 14 + 53 + 57 (ZGW + HU_CIC + ZGW + CMB_MEDIA + HU_CIC)
- CMB_MEDIA ist abhängig von: 57 (HU_CIC)
- ZGW hat keine Abhängigkeiten

Folgendermaßen können Abhängigkeiten identifiziert werden:

http://www.bimmerfest.com/forums/showpost.php?p=8688725&postcount=18



KOMBI:



Der Flashvorgang

- 1. Externes Ladegerät ans Fahrzeug anschließen
- 2. Laptop mit Spannungsversorgung (!) anschließen (mit MaxDia ENET)
- 3. Standlicht aktivieren (sorgt bei älteren Fahrzeugen dafür, dass die Zündung länger als 20 Minuten aktiviert bleibt), für neuere Fahrzeuge vor den TAL-Kalkulationen Zündung erneut aktivieren (vor allem vor dem eigentlichen Flashen; siehe Anhang B)
- 4. E-SYS starten
- 5. Connect via "Connection via Gateway URL" (Sonst bricht der Flashprozess beim ZGW ab!)

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			O Read parameters from VCM
Connect	Connect Cancel		

6. Comfort Mode \rightarrow TAL Calculating



7. FA lessen und Speichern

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Confort Rode	Venice Order		aiti.e)	<i>11</i> a		

8. FA aktivieren



9. Auslesen und Speichern des aktuellen SVT als "SVT_ist"

e Name:				
Read SVT (Read (ECU)	Load	Save	Edit

- 10. Erzeugen eines SVT Targets:
 - a. Kompletten Flash auswählen

I-Step (shipm.): F01	0-14-11-501	¥	Single Flash	O Construction Progress
I-Step (target): F01	0-14-11-501	•	• Complete Flash	
Calculate	Load	Save	Edit	

- b. Auswahl der I-Stufe passend zum Auslieferungs-I-Stufe:
 - i. Expert Mode ->VCM

File Master Backup			
FATT	I-Steps	SVT Target	SVT Actual
Read FA FP	Read Write	Write SVT	Generate SVT
Write FA FP		Read SVT	Read SVT
	ECU exchange detection	Ξĺ	
	Detect exchanged ECUs		
Expert Mode			
VCM			
۸۰۸۰۸ Coding			

- ii. Unten rechts den "Master"-Tab öffnen:
- iii. In der I-Stufen-Box den "Lesen"-Button betätigen

	I-Steps		11S
ad FA FP	Read	Write	Ī
ite FA FP	6		

iv. Anschließend die Auslieferungs-I-Stufe notieren!

I <mark>-Step (current)</mark> :	F010-10-09-522
I-Step (last):	F010-10-09-522
I-Step (shipment):	F010-10-09-522
File Master Back	up
File Master Back	up I-Steps
File Master Back FA FP Read FA FP Write FA FP	up I-Steps Read ECU exchange d

c. Folgendermaßen die Auslieferungs-I-Stufe angeben:

I-Step (shipm.):	F010-10-09-522	~	Single Flash	O Construction Progress
I-Step (target):	F010-14-11-501	¥	Ocomplete Flash	
File Name:		6		
Calculate	Load	Save	Edit	

d. Kalkulieren auswählen

-Step (shipm.):	F010-10-09-522	¥	Single Flash	Construction Progress
-Step (target):	F010-14-11-501	*	Complete Flash	
ile Name:		10.2		
	Load	Sava	Edit	

 \rightarrow

Gancel		- 55
Generiere	SVT	

→ Anschließend als SVT_soll.xml abspeichern:

File Name:	D:\BMWData\SVT\S	VT_soll.xml		
Calculat	te Load	Save	Edit	
HW-I	Ds from SVTactual			

e. Anschließend eine TAL-Kalkulation durchführen und als "SVT_Tal.xml" abspeichern:

] Use data backup] Include ECUs from SV	Directory:			
Use TAL-filter File Name:				
AL:				
Calculation	Save	Edit	Execute	
<u> </u>				
AL				 -151
AL	Directory:			
AL] Use data backup] Include ECUs from SV	Directory:	· • • • • • • • • • • • • • • • • • • •		
AL] Use data backup] Include ECUs from SV] Use TAL-filter File Name:	Directory:			
AL	Directory:			

9. Expert Mode öffnen \rightarrow TAL-Processing



- 10. SVT_Tal.xml laden, die eben erstellt wurde (Schritt 8e):
 - FAL
 FD_
 FM

 SVT1
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 IOSerrie Mail

 FAL
 IOSerrie Mail
 IOSerrie Mail

 FAL
 Image: State State State
 Image: State State State

 FAL
 Image: State State State
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 Image: State State
- 11. SVT_Soll.xml laden, die eben erstellt wurde (Schritt 8d):

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12. "FA lesen" betätigen:

		Edit		
	les l	Edit		
	ReagEA	Edit		
Afrom	master. If this fails rea	d FA from bas		
			urch ontotabt die FA, aus VCNA unde	
		- D	urch entstent die FA_aus_VCIVI.xmi:	
TAL:	D: WHAD apy/7AL WVT_ball	el 15		- 648
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SVTI FAJ	D-SHADAWS/TSVT, ed. D-SHADAWEAEA, ed.	ed Start	ter i i i i i i i i i i i i i i i i i i i	5.00 2.00

13. "FA aus Fahrgestellnummer lesen" auswählen "Fahrgestellnummer lesen"-Button betätigen

O Enter VIN:	WBAMX11070	Read VIN
• Enter VIN:	WBAMX1107	Read VIN
	Enter VIN: Enter VIN:	Enter VIN: WBAMX11070 Enter VIN: WBAMX11070

14. Auf dem ECU-Tab die oberste Checkbox abwählen (Alle), anschließend sollten alle Checkboxen als

ECU Parameters Log			nicht-ausgewählt angezeig werden
ID-Base	All	hwDeinstall	
	V	~	
ACSM 01 - tl_29, tl_54	v	 Image: A start of the start of	
AHM 71 - tl_17, tl_42		v	
ECU Parameters Log			\rightarrow
ID-Base	All	hwDeinstall	
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AHM 71 - tl_17, tl_42			
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15. In den Reihen für HU_CIC, CMB_MEDIA, KOMBI und ZGW folgende Checkboxen anwählen: blFlash, swDeploy, cdDeploy, und ibaDeploy (Siehe Anhang c).

ID-Gassi	AL	InvOenstal	Instructed	5Plash	avDeploy	idRestore	stlackup	dDeleta	cdDepioy	facDapicy	hettadop	BuDspicy	
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PRH 72 - E_S, E_24, E_49	1.0		13			0	100	1 13					
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16. Nun den "Check software availability"-Button betätigen, dadurch wird überprüft, ob die korrekten PsdzData-Files vorhanden sind



17. Anschließend den "Start"-Button betätigen. Anschließend wird die TAL-verarbeitung gestartet um das Kombi mit einer neuen Firmware zu versehen.



18. Nun startet der Update-Vorgang. Weder die Spannung noch die Verbindung zum Laptop/PC sollte nun unterbrochen werden.

Problembehandlung

Um das ACSM zu flashen sollte der Airbag blockiert werden. Dazu kann folgendermaßen vorgegangen werden:I

http://www.bimmerfest.com/forums/showthread.php?t=796371 http://www.bimmerfest.com/forums/showthread.php?t=809906).

E-Sys Transmitter:

- 1) Im linken Menü "External Applications" auswählen
- 2) "External Application" betätigen
- 3) Doppel-Klick auf "Transmitter"
- 4) Doppel-Klick auf "ACSM verriegelung_schreiben"

Anhang A – Steuergeräte-Liste

- AAG Trailer Hitch Module
- ACC Active Cruise Control
- ACSM Advanced Crash and Safety Management
- AHM Trailer module
- AMP Amplifier
- AMPH HiFi Amplifier
- AMP_TOPHB Top HiFi Amplifier/System
- AMP Amplifier/System
- AMP_TOPHB Top HiFi Amplifier/System
- ASA Active steering
- ASD Active Sound
- BDC Body Domain Controller (ZGW, FEM, REM, SZL, IHKA, TCB, CAS, JBBF Combined)
- CAS Car Access System
- CID Central Information Display
- CMB_ECALL Combox Emergency Caller
- CMB_MEDIA Combox Media
- CVM Soft top module (Convertable Top)
- DKOMBI MFID Instrument cluster (6WB)
- DDE Digiatl Diesel Electronics
- DME Digital Motor Electronics
- DSC Dynamic Stability Control
- DWA Immobilizer (Alarm)
- DVDC DVD Changer
- EGS Electronic Transmission Control Unit
- EHA Electronic ride-height control
- EHC Electronic ride-height control
- EKPM Electronic fuel pump control
- EMF Electromechanical parking brake
- EPS Electronic power steering
- FEM_BODY Front electronics module (ZGW, FRM, CAS, and JBBF Combined)
- FEM_GW Front electronics module gateway
- FKA Rear-cabin automatic A/C
- FLA Automatic High Beam Camera Only
- FRM Footwell module (Lighting)
- FRR Active cruise control
- FZD Function unit roof
- GWS Gear selection switch
- HKFM Rear Lift-Lid (Trunk)
- HKL Rear Lift-Lid (Trunk)
- HU_ENTRY Head Unit Entry Level (no iDrive System)

- HU_CHAMP (Head Unit CIC Mid) (iDrive system)
- HU_CIC Head Unit CIC High (iDrive system)
- HU_NBT Head Unit NBT (iDrive system)
- HC2 Lane Change Warning
- HUD Heads-Up Display
- ICM_QL Integrated Chassis Management
- ICM_V Integrated Chassis Management Vertical (Vertical dynamics management)
- IHKA Integrated automatic heating/air conditioning system
- JBBF Junction box electronics
- JBE Junction box electronics
- KAFAS Cameras System (LDW, AHB, SLI)
- KOMBI Instrument cluster
- LHM LED Headlights main light modules (fan and LEDs for the cornering light, low-beam and highbeam headlights).
- NIVI Night Vision Camera
- PDC Park distance control
- PMA2 Parking Assist
- RDC Tyre pressure control
- REM Rear Electronics Module
- RSE Rear Seat Entertainment
- SM Seat module / Seat Memory
- SME Accumulator-management electronics
- SMBF Seat module / Seat Memory Passenger
- SZL_LWS Steering column control unit
- SVT Servotronic
- TCB Telematics Communications Box (BMW Assist)
- TMS LED Headlights (Schritt-Motoren für die adaptiven LED-Scheinwerfer und die adaptiven LED-Sidemarker, die Positionslicher und Blinker
- TRSVC -All around view camera
- TBX iDrive Controller Touch Handwriting Module
- VDM Vertical dynamics Management
- ZBE iDrive Controller
- ZGW Central gateway module

Anhang B

Bei neueren Fahrzeugen (z.B. 07/2014 E30) wird die Zündung sich auch bei eingeschaltetem Standlicht nach ca. 15 Minuten ausschalten. Vor der SVT-Soll-Kalkulation und vor dem Starten der TAL-Verarbeitung (dem eigentlichen Flashen) sollte die Zündung erneut aktiviert werden. Die Zündung wird während der TAL-Verarbeitung aktiviert bleiben.

Anhang C

ibadeploy wird nur zum Flashen der Head-unit benötigt, wen diese das IBA (electronic user manual) hat. Es schadet alledings auch nicht, wenn es grundlos aktiviert ist.