



# Release Notes Programming Passenger Cars

ISTA	4.20.1x
ISTA Service Data	4.20.11
ISTA/P	3.67.0

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## 1 General notes

With the launch of ISTA 4, the functionality for programming has been integrated in ISTA.

The following series can be dealt with using ISTA/P:

E Series

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The following series can be dealt with using ISTA 4:

• F, G and I Series

These Release Notes contain information for both programming systems.

The Release Notes list all known faults and faults that are currently still unresolved, with possible workarounds which are important for the Retailer Organisation. Please contact Technical Support if additional faults occur on the vehicle. In particular in the following cases:

- vehicle-related programming faults / encoding faults and activation faults
- functional faults on the vehicle

With ISTA 4, it is now also possible to send feedback relating to programming directly to BMW AG. Selecting the "Feedback" symbol (envelope symbol) displays the feedback screen with input boxes.

If a new fault pattern is included in a release, this is indicated in the heading with **\* NEW \***. This is no longer indicated in the follow-up release.

## 2 Overview of the I levels contained

I levels newly added or updated in this ISTA version are marked in **BOLD**.

#### F, G, I series (ISTA 4)

Series group	l level
F001 (F0x, RR4, RR5, RR6)	F001-19-11-510
F010 (F06, F1x)	F010-19-11-520
F020 (F2x, F3x, F80, F82, F83, F87)	F020-19-11-520
F025 (F15, F16, F25, F26, F85, F86)	F025-19-11-520
F056 (F39, F4x, F5x, F6x)	F056-19-11-520
S15A (G01, G02, G1x, G3x, RR1x, RR31, F90, F97, F98)	S15A-19-11-520
S15C (G08, G38)	S15C-19-11-520
S18A (G05, G06, G07, G14, G15, G16, G20, G21, G28, G29, F40, F44, F91, F92, F93, F95, F96)	S18A-19-07-570
1001 (101, 112, 115)	1001-19-11-520

I levels correspond to the ISTA Service Data version on the front page.

## E Series (ISTA/P)

Series group	l level
E065 (E65, E66)	E065-17-11-545
E060 (E60, E61, E63, E64)	E060-16-11-500
E070 (E70, E71, E72)	E070-16-11-500
E89x (E81, E82, E84, E87, E88, E89, E90, E91, E92, E93)	E89x-18-07-520
R056 (R55, R56, R57, R58, R59, R60, R61)	R056-17-03-504
RR01 (RR1, RR2, RR3)	RR01-18-03-510

#### Info on the integration levels

i

PuMA measures or similar documents sometimes refer to an I level for the solution to a problem. In this case it is important to know which ISTA release contains the I level.

#### The name of the I level indicates, if it

- 1. is contained in the current ISTA release,
- 2. was already contained in a previous ISTA release or
- 3. will be provided in a future ISTA release.

#### <u>Series group</u> e.g. F020 - <u>year</u> 2017 - <u>month</u> (3, 7 or 11) - <u>version</u> (>= 500)

Assuming the current release contains:	S15A-17-03-506
Then the following I level is not available yet:	S15A-17-07-501
Then this I level was already contained in an older ISTA release:	S15A-16-11-503
Then this I level was already contained in an older ISTA release:	S15A-17-03-505

## 3 Innovations

The following interesting innovations are included, amongst others.

#### ISTA 4

1

New models can be dealt with

Benefit: The new vehicles F44, F93, F95, F96 can be dealt with.

#### Process for deblocking component protection

The component protection is extended to the vehicles G11, G12 version as of 07/2015 and F15, F16, F85, F86 with version as of 07/2016.

As well as the HU-H2 (formerly NBT Evo), the component protection is also active since 3/2018 for the HU-B2 (formerly Entry Evo) and also in the HU-H3 MGU since 7/2018.

The process is identical for both control units and is documented in the ISTA user guide.

The user guide can be opened in ISTA using the "?" button.

#### New protection against tampering - control unit encoding

In G05, G15 and subsequent vehicles, the HU-H3 (formerly MGU), TCB, RSE and instrument cluster control units are linked together. This should prevent tampering with vehicles.

If one or more of the components are exchanged, the connection must then be re-established.

In order to re-establish the connection, an electronic certificate must be created in a BMW backend and imported into the vehicle.

The automatic control unit validation works as of ISTA 4.16.1x.

As a prerequisite, the necessary settings must be made in the ISPI Admin Client. These are described in the following.

This process can **take place automatically** with ISTA 4.16.1x once the affected workshop systems (ISPI Admin Client) are correctly configured and there is an online connection to the BMW backend.

The required settings for the ISPI Admin Client are described in the ISPI Administrator Manual (Application: ISPI Admin Client (administration area) / ISPI Admin Client: Functions / ISPI Admin Client: Certification management).

If the prerequisites for the automatic process do not exist, technical support can help to manually validate the control units.

The manual process is described below:

1. Select the exchanged control unit in the "After Replacement" tab and then calculate the measures plan.

Operations	Vehicle information	Vehicle management	Service plan	Favourites	Workshop/ Operating fluids	Measuring devices
Repair/ Maintenance	Troubleshooting	Service functions	Software update	Control Unit Replacement	Vehicle modification	
Before Replacement	After Replacement					
Short name	Description				Replaced	ł
ACSM	Crash safet	y module				
AHM	Trailer modu	le				
AL	Active steer	ing				
AMPT	Top HiFi am	plifier				
BDC	Body Doma	in Controller				
CON	Controller					
DDE	Digital diese	el electronics				
DSC	Dynamic St	ability Control				
EDC	Vertical Dyn	amics Management				
EGS	Electronic tr	ansmission control				
FHC	Electronic ri	de height control				
Hint: To finalize th	e replacement of the all	ready installed ECU, se	elect the corresponding	control unit.		
						Display measures plan

Then ISTA will automatically include the control unit validation in the measures plan.

Operations	Vehicle information	Vehicle management	Service plan	Favourites	Workshop/ Operating fluids	Measuring devi	ices
Hit list	Test plan	Programming plan					
Measures pla	an Final report						
Туре	Planned actions				Origin	State 🤑	
							4
ABL	Delete fault memory				System	0	
ABL	Ethernet port configuration	(ENS)			System	0	
ABL	Head unit: Initialisation of	stored ethernet commur	nication		System	0	
ABL	Initialisation of component	protection for the head	unit		System	0	
ABL	Run the Power-down com	mand			System	0	
ABL	Update online services				System	0	
ABL	Validating control units aft	er control unit exchange			System		
UPD	SVT update				System	0	
UPD	Write of I-Level				System	0	
UPD	Write of vehicle order				System	0	
UPD	Write of vehicle profile				System	0	•
Back	Display operations report	Execute service function	Reject measure plan	S	Calculate measures	Execute measure plan	ure

2. If ISTA cannot carry out automatic validation, a warning about the absence of control unit validation is displayed.

Control unit validation aft	er control unit exchange		×
Warning!			
Automatic contro	ol unit validation is not possible or has failed.		
Control unit validation	n after control unit exchange is required!		
The procedure is as t	follows:		
If the control unit vali	dation should still be manually carried out within the framework of these mean e button 'Next' otherwise press 'Cancel'.	sures plan ,	
Cancel		Next	

3. By clicking on the "Next" button, ISTA generates the required ValidationRequest\_VIN\_xxx.json.zip file and opens a file dialogue to save it. The file must be sent to technical support later via PuMA.

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Manual generation of EC	Validation request file			E	×
In order to proceed	the ECUs have to be validated online. Choose a fo	older where ECU validation request file ca	an be saved.		
<ul> <li>▷ CA</li> <li>▷ DA</li> </ul>					
Cancel	Keyboard		Back	Continue	

4. ISTA displays a note confirming that the file was successfully saved. At this point, you can exit the process using the "Cancel" button. After processing the measures plan, the session can be closed.

Control unit validation after control unit e	xchange 🔳 🔀
Protice!	
The first part of the manual consuccessfully completed.	ntrol unit validation was
Completion of the control unit valid change is necessarily required! If manual control unit validation sho framework of these measures plan 'Next' otherwise press 'Cancel'.	ould be completed within the
Cancel	Next

The vehicle must not be handed over to the customer without successful control unit validation. Various vehicle functions are not available without control unit validation, corresponding fault memories are set.

#### PuMA

5. Please send the saved json.zip file to technical support attached to a PuMA message.

6. Technical Support will send you back a validated version of the file as file type json for the affected vehicle. This is subsequently required by ISTA.

#### Start a new ISTA session

7. In order to import the json file, select "ECU Validation" in the "Additional Software" tab.

Operations	Vehicle information	Vehicle management	Service plan	Favourites	Workshop/ Operating fluids	Measuring devices	
Repair/ maintenance	Troubleshooting	Service functions	Software update	Control Unit Replacement	Vehicle modification		
Comfort	Advanced	Additional software					
Designation <b>A</b>						Selection	
ECU Validation							
Enabling of navigati	on maps						
HDD-Update (updat	te of navigation maps /	entertainment data)					
						Display measures plan	

8. In order to import the validated file, select "Import control unit validation file manually" and confirm with

Operations	Vehicle	Workshop/ Measuring devi
NAME OF THE OWNER	Control unit validation	
Repair/ maintenance	Select an application case	
Comfort	Generate control unit validation file manually	
<b>D</b> 1 1	Import control unit validation file manually	
Designation		Selection
HDD-Update (updat	i	
Enabling of navigati		
Initialisation of head		
Control unit validation		
	Cancel	ок

9. Select the ValidationRequest\_VIN\_xxx\_response.json file in the file dialogue and confirm with "Continue" .



Unzip the ZIP file and import the json file into ISTA.

Manual import of ECU Va	alidation file					B	$\times$
Select the validatio	n response file on your	computer.					
An example of corr ValidationRequest	ect validation response WBACV41050H01397	filename to be selected 5_42664_40626_54_20	l is: 180614_150223_resp	onse.json			
▷ C:\ ▷ D:\							
Cancel	Keyboard				Back	Continu	le

10. The file is written into the vehicle and checked.

Control unit validation	
<ul> <li>The ECU validation was successful. Proce</li> <li>After confirmation of this message, the automatically to the 'After exchange' tal</li> <li>Here, the exchanged control unit must action plan must be calculated and performed plan must be calculated plan must be calculated and performed plan must be calculated and performed plan must be calculated plan</li></ul>	lisplay will switch e marked, then an
Detaits	ок

11. After confirming the note, ISTA displays the tab for control unit exchange. Select the exchanged control unit and calculate and work through the measures plan.

#### Check for programming restrictions due to virus protection/firewall software

Before programming, ISTA checks if communication between the vehicle and ISTA is restricted due to virus protection/firewall software on the ISTA computer.

In this case, ISTA displays a pop-up with a note about blocked interfaces.

#### Please also observe the following Release Notes entry in this regard:

• HU-H (formerly NBT) - No programming possible (firewall, virus protection)

# 4 Known faults F, G, I Series

## 4.1 \* NEW \* I12, I15 and I01 - Execution stop with alternative I level

#### Fault description:

At the start of the programming session an execution stop occurs with a reference to the Release Notes.

ISTA offers the option of programming the vehicle with an alternative I level I001-19-07-5xx.

#### Model series affected:

I12, I15 and I01 vehicles with range extender in the Europe region.

#### Measure / Workaround:

Programming with alternative I level.

Fault corrected by:

Expected mid-November.

Affected application:

## 4.2 \* NEW \* I12, I15 - Execution stop

#### Fault description:

At the start of the programming session an execution stop occurs with a reference to the Release Notes.

#### Model series affected:

I12, I15 vehicles with 4U1 optional equipment.

#### Measure / Workaround:

Carry out conversions and retrofitting later.

#### Fault corrected by:

Expected with ISTA 4.20.2x

#### Affected application:

## 4.3 \* NEW \* G0x, G1x, G3x with HU-H3 - Execution stop with alternative I level

#### Fault description:

At the start of the programming session an execution stop occurs with a reference to the Release Notes.

ISTA offers the option of programming the vehicle with an alternative I level S15A-19-07-5xx.

In this case, an IBAC can be requested from Technical Support.

#### Model series affected:

G01, G02, G11, G12, G30, G31, G32, F90 vehicles with HU-H3 MGU.

#### Measure / Workaround:

Programming with alternative I level, request IBAC from Technical Support if necessary.

#### Fault corrected by:

Expected with ISTA 4.20.2x

#### Affected application:

#### Fault description:

At the start of the programming session an execution stop occurs with a reference to the Release Notes.

ISTA offers the option of programming the vehicle with an alternative I level S15C-19-07-5xx.

In this case, an IBAC can be requested from Technical Support.

#### Model series affected:

Vehicles G08.

#### Measure / Workaround:

Programming with alternative I level, request IBAC from Technical Support if necessary.

#### Fault corrected by:

Expected with ISTA 4.20.2x

#### Affected application:

## 4.5 \* NEW \* RR11, RR12, RR31 - Execution stop with alternative I level

#### Fault description:

At the start of the programming session an execution stop occurs with a reference to the Release Notes.

ISTA offers the option of programming the vehicle with an alternative I level S15A-19-07-5xx.

#### Model series affected:

Vehicles RR1, RR12, RR31.

#### Measure / Workaround:

Programming with alternative I level.

#### Fault corrected by:

Expected with ISTA 4.21.1x

#### Affected application:

## 4.6 \* NEW \* Odometer adjustment pop-up

#### Fault description:

A pop-up about odometer adjustment is displayed during programming.

#### Model series affected:

G05, G06, G07, G14, G15, G16, G20, G21, G28, G29, F40, F44, F91, F92, F93, F95, F96 and G11, G12 vehicles, as of life cycle impulse.

#### Measure / Workaround:

If the odometer reading is less than 500 km, the message can be ignored.

If the odometer reading is more than 500 km, contact Technical Support.

#### Fault corrected by:

Expected with ISTA 4.20.3x.

#### Affected application:

# 4.7 High beam assistant - activation code Technical Campaign when programming to 19-07 or later

#### Fault description:

For programming to S18A-19-07-5xx or S15A-19-07-5xx or later, an activation code Technical Campaign for the KAFAS control unit is scheduled.

The reason is that the function is activated retrospectively for the customer.

#### Model series affected:

G05, G07, G14, G15, G20, G29 and G11, G12 vehicles, as of life cycle impulse with special equipment 5AC.

#### Measure / Workaround:

Import the activation code into the vehicle

#### Fault corrected by:

Affects vehicles with version before July 2019.

Affected application:

## 4.8 HU-H2 - Reference to repair measure

#### Fault description:

When programming a vehicle with HU-H2 NBTEvo, a note is displayed about a HU-H2 programming failure.

#### Model series affected:

Vehicles F0x, F1x, F2x, F3x, F4x, F5x, F6x, F8x, F90, G0x, G1x, G3x, I01, I1x, RRx with HU-H2.

#### Measure / Workaround:

1) Follow the note and carry out the repair measure (service function) for the HU-H2. This can take up to 20 minutes.

2) Calculate and execute measures plan.

Pay attention to final work.

#### Fault corrected by:

HU-H2s from a limited production period are affected by the fault.

Please observe PuMA measure 64862978.

#### Affected application:

## 4.9 KAFAS does not respond any more after programming

#### Fault description:

After programming, the KAFAS control unit no longer responds.

#### Model series affected:

G05, G07, G14, G15, G20, G29 vehicles with I level 18-11-5xx.

#### Measure / Workaround:

1) Let vehicle go to sleep. KAFAS then responds again.

2) Start new ISTA session, calculate and carry out measures plan.

#### Fault corrected by:

Currently open

#### Affected application:

## 4.10 After programming, SRS/HRS is allocated for installation

#### Fault description:

After vehicle programming, one or more radar sensors are allocated for installation.

#### Model series affected:

Vehicles G0x, G1x, G2x, G3x, F90, RR1x, RR31 with short-range sensors SRSNVR, SRSNVL, HRSNR, HRSNL.

#### Measure / Workaround:

Please contact technical support about managing the vehicle.

#### Fault corrected by:

Expected with ISTA 4.21.1x.

#### Affected application:

## 4.11 F0x - programming not possible, control units are requested for installation

#### Fault description:

ISTA 4 instructs one or several of the specified control units for installation, although they are already fitted in the vehicle.

#### Model series affected:

Vehicles F01, F02, F03, F04, F07 with production date until March 2011 and the following control units:

- TEL-ULF260, TEL-ULF2HI, TEL-E15GSM
- MMC-01, MMC-01-FIRMWARE
- AMP-HIFI01, AMP-TOP70
- SDARS-01
- LRR-01

#### Measure / Workaround:

The vehicle can be dealt with using ISTA/P.

AN IBAC activate code is required for this. This can be requested from technical support.

#### Fault corrected by:

Currently open

#### Affected application:

## 4.12 LEM-01 - coding not possible

#### Fault description:

Coding of the LEM-01 failed repeatedly.

#### Model series affected:

Vehicles G1x, G3x.

#### Measure / Workaround:

Contact Technical Support.

#### Fault corrected by:

Currently still open.

Affected application:

# 4.13 ISTA 4 - Information on BDC exchange or programming cancellation gateway

#### control units



The exchange of the BDC is again supported with ISTA 4.09.1x.

#### Fault description:

When carrying out the special measures plan in the event of a BDC exchange, or due to a programming abort of the gateway control unit, the following pop-ups appear repeatedly:

- Requesting that the ignition be switched on
- SYS-0012 Identification Error
- Connection to control unit Unknown interrupted

#### Model series affected:

Vehicles with the control units FEM or BDC.

#### Measure / Workaround:

Confirm pop-ups until the special measures plan has been carried out.

#### Fault corrected by:

Currently still open.

#### Affected application:

## 4.14 Invalid IP address for BN2020Ethernet control units

#### Fault description:

During vehicle management, one of the following Ethernet-capable control units should be programmed:HU-H, RSE, ATM, KOMBI, ACC, ICAM, KAFAS

At the start of the session, a note appears indicating that the IP address is invalid. The Ethernet programming can fail if the following steps are not followed:

#### Model series affected:

All F, G, I Series

#### Measure / Workaround:

- 1. End ISTA session
- 2. Carry out a battery reset
- 3. Restart the session
- 4. If fault message still appears: Check the Ethernet wiring in the vehicle using the wiring diagram in ISTA
- 5. If fault message still appears: Contact Technical Support

#### Fault corrected by:

Currently still open

#### Affected application:

# 5 Known faults E Series (ISTA/P)

## 5.1 Vehicle order import fails due to antivirus software and firewall

٨	IMPORTANT!					
-	In individual cases, the vehicle order-import fails because of installed security software (antivirus					
	software or firewall). After the session starts, the vehicle identification with ISTA/P fails. (BMW-					
	internal locations are not affected by the fault)					
	Measure / Workaround:					
	For more details, see ISPI Dealer Self Support entry 51219.					
	Affected application:					
	ISTA/P					