



# Release Notes Programming

## Passenger Cars

ISTA	4.22.4x
ISTA Service Data	4.22.41
ISTA/P	3.67.1

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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

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	I level
F001 (F0x, RR4, RR5, RR6)	<b>ISTA 4 - F001-20-03-540</b> ISTA/P - F001-20-03-530
F010 (F06, F1x)	<b>F010-20-03-540</b>
F020 (F2x, F3x, F80, F82, F83, F87)	<b>F020-20-03-540</b>
F025 (F15, F16, F25, F26, F85, F86)	<b>F025-20-03-540</b>
F056 (F39, F4x, F5x, F6x)	<b>F056-20-03-540</b>
S15A (G01, G02, G1x, G3x, RR1x, RR31, F90, F97, F98)	<b>S15A-20-03-540</b>
S15C (G08, G38)	<b>S15C-20-03-540</b>
S18A (G05, G06, G07, G14, G15, G16, G20, G21, G28, G29, F40, F44, F91, F92, F93, F95, F96)	<b>S18A-20-03-540</b>
I001 (I01, I12, I15)	I001-20-03-530

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

### E Series (ISTA/P)

Series group	I 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)	<b>RR01-19-11-500</b>

### Info on the integration levels



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.

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

<b>Assuming the current release contains:</b>	<b>S15A-17-03-506</b>
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

##### New models can be dealt with

Benefit: The new vehicles F48 PHEV, G06 PHEV 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.

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 process is documented in the ISTA user guide.

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

##### 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 Notes on control unit validation

#### Fault description:

Due to a problem in the software of the HU-H3 MGU, automatic control unit validation does not work in vehicles after programming to 20-03-5xx.



In the event of an exchange, control unit validation must be carried out before programming.

After programming to I level 20-03-5xx, control unit validation fails and can only be carried out with the help of Technical Support.

#### Model series affected:

Vehicles G0x, G1x, G2x, F40, F44, F9x.

#### Measure / Workaround:

In the event of an exchange, control unit validation must be carried out before programming.

To do this, mark the affected control unit as exchanged and then calculate and carry out the measures plan.

If the certificate check fails (warning), the necessary certificates must be provided by Technical Support.

This necessitates the following steps:

1. Select the "NEXT" button in the warning
2. ISTA generates the required "ValidationRequest\_VIN\_XXX.json.zip" file and opens a file dialogue to save it.
3. The file must be sent to Technical Support via PuMA or TSARA

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.

Notes for importing the json file using ISTA can be found in the user guide ("?" button), in the "Control unit validation" chapter.



Please import the validated file as type json with ISTA.

In the case of a zip file, please unzip it first.

#### Fault corrected by:

A solution at the BMW back end is expected to be available at the middle of April.

With that, the automatic validation should function again.

#### Affected application:



ISTA 4

## 4.2 BMW Apps - After programming on 20-03-5xx without function

### Fault description:

One or more of the BMW ConnectedDrive apps no longer work after programming to 20-03-5xx or more recent.

### Model series affected:

Vehicles G0x, G1x, G2x, F40, F44, F9x with HU-H3 MGU.

### Measure / Workaround:

Update apps:

1. Navigate to Main menu/Apps/Installed apps in the control display
2. Press the Options button on the iDrive Controller
3. Update apps and services

Alternatively reset vehicle data:

1. Navigate to Vehicle information/Settings/General settings in the control display
2. Reset vehicle data:

### Fault corrected by:

Currently open

### Affected application:

ISTA 4

### **4.3 RAM - activation code Technical Campaign when programming to 20-03 or more recent**

**Fault description:**

When programming to S18A-20-03-5xx or more recent, an activation code Technical Campaign for the RAM control unit is scheduled.

**Model series affected:**

Vehicles G0x, G1x, G2x, F40, F44, F9x.

**Measure / Workaround:**

Import the activation code into the vehicle

**Fault corrected by:**

Affects vehicles with build level before March 2020.

**Affected application:**

ISTA 4

#### **4.4 \* NEW \* G05, G06, G07 - activation code Technical Campaign when programming to 19-11 or more recent**

**Fault description:**

When programming to S18A-19-11-5xx more recent, an activation code Technical Campaign for the VIP control unit is scheduled.

**Model series affected:**

G07 and G05, G06 vehicles with special equipment 2VR, 2VW, 2VF.

**Measure / Workaround:**

Import the activation code into the vehicle

**Fault corrected by:**

Affects vehicles with version before November 2019.

**Affected application:**

ISTA 4

## **4.5 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:**

ISTA 4

## 4.6 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:**

ISTA 4

## 4.7 HU-H3 (Head Unit High 3) / RSE control unit cannot be encoded

**Fault description:**

Encoding the HU-H3 MGU-01 or RSE fails repeatedly.

**Model series affected:**

G0x, G1x, G2x, F4x, F9x vehicles with MGU-01 control unit

**Measure / Workaround:**

Assign HU-H3 control unit manually for programming in ISTA.

**Fault corrected by:**

Currently open

**Affected application:**

ISTA 4

## 4.8 HU-H3 (Head Unit High 3) / RSE control unit has communication fault after programming

### **Fault description:**

After programming, ISTA reports a communication fault S0273 for the HU-H3 MGU.

The HU-H3 is marked for installation in the measures plan.

### **Model series affected:**

G0x, G1x, G2x, F4x, F9x vehicles with MGU-01 control unit

### **Measure / Workaround:**

1. Carry out control unit reset with ISTA. In case the control unit still does not respond:
2. De-energise the vehicle. Please note that batteries are installed in the engine compartment and luggage compartment, depending on the equipment.

Then start a new session and mark the HU-H3 manually in ISTA for programming.

### **Fault corrected by:**

Currently still open.

### **Affected application:**

ISTA 4



## 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:**

ISTA 4

## 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 4.23.1x.

**Affected application:**

ISTA 4

## 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:**

ISTA 4

## 4.12 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:**

ISTA 4

### 4.13 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:**

ISTA 4

## 5 Known faults E Series (ISTA/P)

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

**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