2018
MapCare
Manual for Dealer

v 1.0

2018 Map Update Manual

This document is split into four sections:

AVN Platform/Car lines overview

AVN Platform	Vehicle Name
AVN GEN 1.X	Venga (YN) cee'd (ED JD) Sportage (SL, SLFL) Sorento (XM, XMFL) Optima (TF, TFFL) Rio (UB) Carens(RP)
AVN GEN 2.0	Picanto (TA) Rio (UB) Venga (YN) Optima (JF) New Sportage (QL) New Sorento (UM)
AVN GEN 4.0	Soul (PS, PSEV) Sorento (UM) Optima (TF, TF HEV)
iAVN	Niro (DE HEV, DE PHEV) Optima (JF 2017, JF PHEV, JF WGN, JF WGN PHEV) Sportage 2017 (Qle) Soul 2017 (PS PE) Carens (RP PE) Rio (YB), Stonic (YB CUV) Stinger (CK) Sorento PE (UM PE) Cee´d (JD MY17)

Regular Update - Changes Summary

Platform	System Identification	SOP/ Previous Version Map Data : August 2015	Enhancements Map Data : November 2016
GEN 1.x		❖ ECO route on Map present ❖ 45 Countries supported ❖ No Apple carplay /Android auto support ❖ No Tomtom services support	❖ ECO route Removed from Map. ❖ 45 Countries supported (Incl 6 changes) ❖ No Apple carplay /Android auto support ❖ No Tomtom services support
GEN 2.0		❖ 45 Countries supported ❖ No Apple carplay /Android auto support ❖ Tom Tom services supported	❖ 45 Countries supported ❖ No Apple carplay /Android auto support ❖ Tom Tom services supported
GEN 4.0		❖ 45 Countries supported ❖ Apple carplay /Android auto support[VF] ❖ No Tomtom services support	❖ 45 Countries supported ❖ Apple carplay /Android auto [VF] ❖ No Tomtom services support
GEN 5.0		❖ 46 Countries supported ❖ Apple carplay /Android auto support[All cars] ❖ Tomtom services supported	❖ 47 Countries supported[Cyprus - New] ❖ Apple carplay /Android support ❖ Tom Tom services supported

Map Database changes

Coverage Attribute	2018 Map Update	Improvement to 2017
Road Geometry (km)	2.177.261	+393.960
Street Names (count)	3.718.016	+558.231
Addresses (count)	137.660.393	+8.834.648
Highways (count)	36.134	+6.804
One Way Streets (count)	431.484	+76.969
Roundabouts (count)	111.964	+17.957
Speed Limits (count)	1.896.048	+620.372
Turn restrictions (count)	614.678	+298.143
Sign Information (count)	275.067	+71.051
Points of Interest (count)	9.727.933	+850.504

Downloading and creating a SD card with the All Software package is the fastest and most convenient way to create the 2018 update kit.

Steps needed:

- Download "All Software" (see 1.3.5)

- Prepare the SD card (see 2.5)

- Download map data* files as needed (1.3.1 – 1.3.4)

- Continue with 2.11

* Gen 1.x map data is included in "All Software" file

1. Downloading the updates

1.1 Required Software and Memory on PC

- Software needed for Download
  - Windows 7, Windows 8 or Windows 10
  - Web browser like FireFox, Chrome or Internet Explorer
  - WinZIP or 7Zip extraction tool
- Hard Drive Space
  - Map data files need to be stored on PC for copying to Vehicle SD card (approx 41 GB)
  - System Software will be copied one time to separate SD card or USB stick and can be deleted from hard drive after copy process.

Platform	Component	Size
Kia Gen 1.x (5.1.3)	Map Data and Software	2.77 GB
Kia Gen 1.x 2018 Update	Map Data and Software	5.08 GB
Kia Gen 2.0 2018 Update	Map Data	7.40GB
	System Software	2.79 GB
Kia Gen 4.x 2018 Update	Map Data	11.60 GB
	System Software	4.73 GB
Kia iAVN 2018 Update	Map Data	17.00 GB
	System Software	2.66 GB

1.2 How to Download the Update

MapCare Map and Software updates are available for Authorized Dealers at:
http://www.navigation.com/doc-emea

Please use your Username and Password to Log In.

For security reasons, you will have to request a new password after first Log In. The new password will be mailed to you immediately after initial Log In.

In case you experience problems or the email does not reach you, please contact the HERE Contact Center directly:
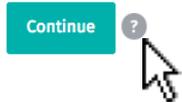
International Toll Free Number: 00800 18 23 53 22
Local Toll Free Number Germany: 0800 181 6065
Local Toll Free Number France: 0800 914 478
Local Toll Free Number Italy: 800 781 145
Local Toll Free Number UK: 08081 013885
All Others Regions Telephone Number: +31 555 384 245

1.3 Overview Page

Master kits

Download a Master kit to update the map in multiple vehicles.

Continue ?

Click on continue to see the available files.

GEN 1.x Map Master Files and System Software

GEN 2.0 Map Master Files and System Software

GEN 4.x Map Master Files and System Software

iAVN Map Master Files and System Software

GEN x All Software

Click on the navigation platform you want to download. You are guided to the next page.

1.3.1 Gen 1.x Platform

Gen 1.x 2018
SKU: E3242011827001

☐ I have read and accept the Export Control Terms.

Download

Kia Gen 1.x 2018 is the latest System Software and Map update. In most cases, you only need to download this package. The file name is Kia_Gen1x_2018.zip

Gen 1.x 5.1.3 2018
SKU: E3242011826001

☐ I have read and accept the Export Control Terms.

Download

Kia Gen 1.x 5.1.3 is only needed, if the system software is pre 5.1.3. In this case, you need to download and install both packages. The file name is Kia_Gen1x_5_1_3.zip.

To request the personal download link check the "Export and Control Terms" box and click "Download".

By clicking "Save File" the selected file will be downloaded to your computer.

1.3.2 Gen 2.0 Platform

Gen 2.0 Map 2018
SKU: E3242011826002

☐ I have read and accept the Export Control Terms.

Download

Kia Gen 2.0 Map 2018 is the latest **Map update**. The file name is Kia_Gen2_Map_2018.zip

Gen 2.0 Software 2018
SKU: E3242011827002

☐ I have read and accept the Export Control Terms.

Download

Kia Gen 2.0 Software is the latest System **Software update**. The file name is Kia_Gen2_Software_2018.zip

To request the personal download link check the "Export and Control Terms" box and click "Download".

By clicking "Save File" the selected file will be downloaded to your computer.

1.3.3 Gen 4.x Platform

Gen 4.x Map 2018
SKU: E3282011826001

☐ I have read and accept the Export Control Terms.

Download

Kia Gen 4.x Map 2018 is the latest **Map update**.
The file name is Kia_Gen4_Map_2018.zip

Gen 4.x Software 2018
SKU: E3282011827001

☐ I have read and accept the Export Control Terms.

Download

Kia Gen 4.x Software is the latest System **Software update**.
The file name is Kia_Gen4_Software_2018.zip

To request the personal download link check the "Export and Control Terms" box and click "Download".

By clicking "Save File" the selected file will be downloaded to your computer.

1.3.4 iAVN Platform

iAVN Map 2018
SKU: E3282011826002

☐ I have read and accept the Export Control Terms.

Download

Kia iAVN Map 2018 is the latest **Map update**. The file name is Kia_iAVN_Map_2018.zip

iAVN Software 2018
SKU: E3282011827002

☐ I have read and accept the Export Control Terms.

Download

Kia iAVN Software is the latest System **Software update**. The file name is Kia_iAVN_Software_2018.zip

To request the personal download link check the "Export and Control Terms" box and click "Download".

By clicking "Save File" the selected file will be downloaded to your computer.

1.3.5 Downloading Software for All Platforms

GenX all Software 2018

SKU: E3282011827999

☐ I have read and accept the Export Control Terms.

Download

"Kia Gen X All Software 2018" includes Gen 1.x 2018*, Gen 2.0 2018, Gen 4.x 2018 and iAVN 2018 system software.
The total file size is approx 16 GB.

To request the personal download link check the "Export and Control Terms" box and click "Download".

By clicking "Save File" the selected file will be downloaded to your computer.

* Gen 1.x includes Map and Software

2. Preparing the Service Tool Kit (STK)

2. Preparing the Service Tool Kit (STK)

2018 system software and map updates have been made available as download to you.

As highlighted in the Download Manual, each platform is split into Software and Map data.
The software needs to be copied to a media (SD Card or USB stick) one time only.
After copying the software to the media, you may delete the files from your computer.

2018 Map data files need to stay on your computer and copied to vehicle´s SD card for every update.

The process is universal for all navigation platforms.

1. Download the files
2. Extract the files to your hard drive
3. Copy the files to SD card or USB stick

2.1 Media carriers

We suggest to create 3 different media carriers:
- One SD card containing
    - Gen 2.0 2018 System Software
    - Gen 4.x 2018 System Software
    - iAVN 2018 System Software
- One USB stick containing Kia Gen 1.x 2018
- One USB stick containing Kia Gen 1.x Version 5.1.3

2.2 Required Media

Platform	Media	Size	Comment
Kia Gen 1.x 2018	USB Stick	8 GB	If you need to purchase a new USB stick, a common consumer grade version, e.g. Intenso 8 GB USB-Stick, is sufficient.
Kia Gen 1.x Version 5.1.3	USB Stick	8 GB	If you need to purchase a new USB stick, a common consumer grade version, e.g. Intenso 8 GB USB-Stick, is sufficient.
Kia Gen 2.0 2018 Update Kia Gen 4.x 2018 Update Kia iAVN 2018 Update	SD Card	32 GB	In case you would like to create one SD card per navigation platform or need to purchase more SD cards, please purchase a common consumer grade SD card, e.g. SanDisk Ultra SDHC 32GB UHS-I Class 10. This manual will explain how to create one SD card containing 2018 software versions of Gen 2.0. Gen 4.x and iAVN platforms. If your PC does not have a SD card slot, you can use a USB to SD card adapter, and in case you need to purchase an adapter, please purchase TRANSCEND RDF5 Card Reader or similar.

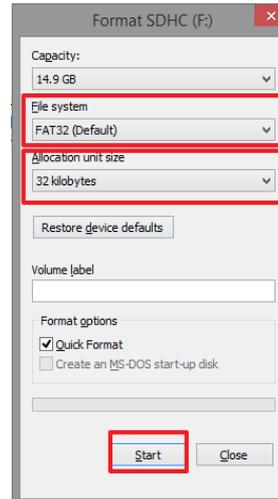# 2.3 Preparing USB and SD cards

Step 1:
Insert SD card or USB stick in PC

Step 2:
Right click SD card or USB drive and select "Format"

Step 3:
Format the SD card or USB drive to FAT32.

Format SDHC (F:)

Capacity:
14.9 GB

File system
FAT32 (Default)

Allocation unit size
32 kilobytes

Restore device defaults

Volume label

Format options
☑ Quick Format
☐ Create an MS-DOS start-up disk

Start   Close

2.4 Locating the 2018 Map Update files

After downloading the files, please open the folder containing the downloads
The file names are:

Platform	Component	File Name
Kia Gen 1.x 5.1.3	Map Data and Software	Kia_Gen1x_5_1_3.zip
Kia Gen 1.x 2018 Update	Map Data and Software	Kia_Gen1x_2018.zip
Kia Gen 2.0 2018 Update	Map Data	Kia_Gen2_Map_2018.zip
	System Software	Kia_Gen2_Software_2018.zip
Kia Gen 4.x 2018 Update	Map Data	Kia_Gen4_Map_2018.zip
	System Software	Kia_Gen4_Software_2018.zip
Kia iAVN 2018 Update	Map Data	Kia_iAVN_Map_2018.zip
	System Software	Kia_iAVN_Software_2018.zip

2.5
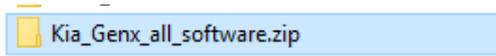# Kia GenX All Software 2018

2.5.1 Preparing 2018 STK with Kia_Genx_all_Software_2018

These steps need to be performed ONE TIME only to create the STK. As soon as the STK is ready, you may delete the files from your PC.
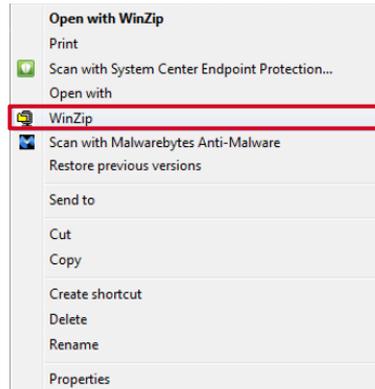
Step 1:
Please open the folder with the downloaded ZIP files and locate the
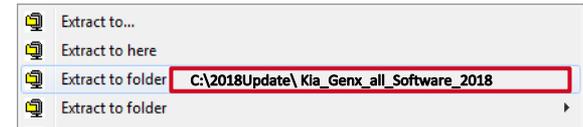Kia_Genx_all_Software_2018.zip

Kia_Genx_all_software.zip

Step 2:
Right click on the file and select "WinZip"

Open with WinZip
Print
Scan with System Center Endpoint Protection...
Open with
WinZip
Scan with Malwarebytes Anti-Malware
Restore previous versions
Send to
Cut
Copy
Create shortcut
Delete
Rename
Properties

Step 3:
Select "Extract to folder". WinZip will now extract the files to a new folder named like the navigation platform.

Extract to...
Extract to here
Extract to folder   C:\2018Update\ Kia_Genx_all_Software_2018
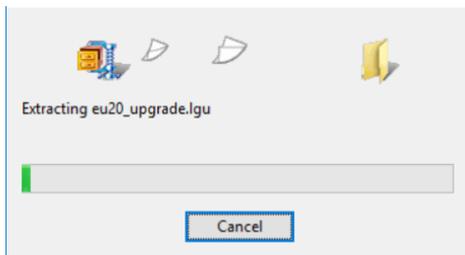Extract to folder

2.5.1 Preparing 2018 STK with Kia_Genx_all_Software_2018

These steps need to be performed ONE TIME only to create the STK. As soon as the STK is ready, you may delete the files from your PC.
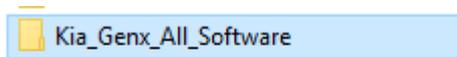
Step 4:
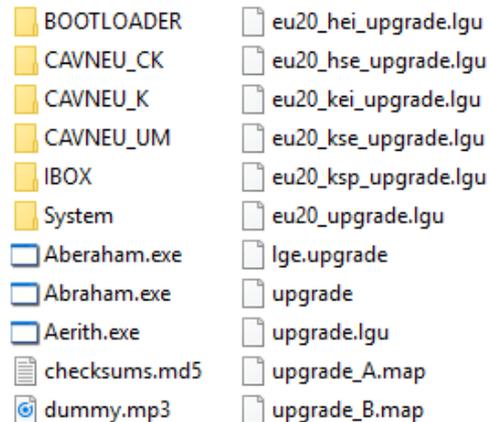WinZip is now extracting the files.

Step 5:
The new folder is visible now.

Step 6:
Double Click the folder to open it until you see the files.

Extracting eu20_upgrade.lgu

Cancel

Kia_Genx_All_Software

BOOTLOADER	eu20_hei_upgrade.lgu
CAVNEU_CK	eu20_hse_upgrade.lgu
CAVNEU_K	eu20_kei_upgrade.lgu
CAVNEU_UM	eu20_kse_upgrade.lgu
IBOX	eu20_ksp_upgrade.lgu
System	eu20_upgrade.lgu
Aberaham.exe	lge.upgrade
Abraham.exe	upgrade
Aerith.exe	upgrade.lgu
checksums.md5	upgrade_A.map
dummy.mp3	upgrade_B.map

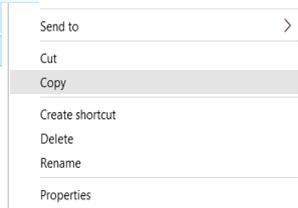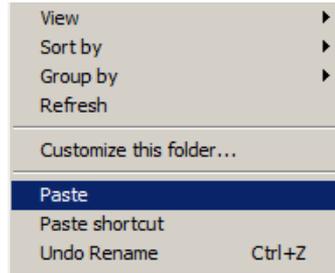# 2.5.2 Preparing the 2018 STK with Kia_Genx_all_Software_2018

Step 7:
Select the files in the folder.
Right click on the marked files and select
"Copy"
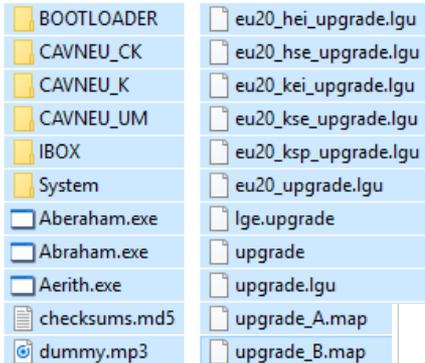
Step 8:
Please right click on the SD card folder and paste the data on the SD card.

Step 9:
Now you created a SD card to update
Gen 1.x,
Gen 2.0,
Gen 4.0
and iAVN
system software to 2018 version.

2.6
Kia Gen 1.x 5.1.3

2.6.1 Kia Gen 1.x 5.1.3

Gen 1.x version 5.1.3 is only needed for vehicles, that do not have a 5.1.3 or higher installed.
In case a vehicle has 5.1.2 or lower, you need to install 5.1.3 first and 2018 update afterwards.
You need to prepare a separate USB stick for this version.

Step 1:
Please open the folder with the downloaded ZIP files and locate the
Kia_Gen1.x_5.1.3.zip

Step 2:
Right click on the file and select "WinZip"

Step 3:
Select "Extract to folder". WinZip will now extract the files to a new folder named like the navigation platform.

Step 4:
WinZip is now extracting the files.

Step 5:
The new folder is visible now.

Step 6:
Double Click the folder to open it until you see the files.

2.6.2 Kia Gen 1.x 5.1.3

Step 7:
Select the files in the folder. Right click on the marked files and select "Copy"

Step 8:
Please right click and paste the data on the USB stick

Step 9:
The USB stick will contain 3.15 GB.

📁 System
📄 checksums.md5
📄 lge.upgrade
📄 upgrade.lgu
📄 upgrade_v8.lgu

2.7
Kia Gen 1.x 2018 Update

2.7.1 Kia Gen 1.x 2018 Update

These steps need to be performed ONE TIME only to create the STK. As soon as the STK is ready, you may delete the files from your PC.

Step 1:
Please open the folder with the downloaded ZIP files and locate the
Kia_Gen1x_2018.zip

Step 2:
Right click on the file and select "WinZip"

Step 3:
Select "Extract to folder". WinZip will now extract the files to a new folder named like the navigation platform.

Step 4:
WinZip is now extracting the files.

Step 5:
The new folder is visible now.

Step 6:
Double Click the folder to open it until you see the files.

2.6.2 Kia Gen 1.x 2018 Update

Step 7:
Select the files in the folder.
Right click on the marked files and select
"Copy"

Step 8:
Please right click and paste the data on the USB stick

Step 9:
The USB stick will contain a file size of 5.08 GB.

📁 BOOTLOADER
📁 System
🔲 Aberaham.exe
🔲 Abraham.exe
📄 checksums.md5
💿 dummy.mp3
📄 lge.upgrade
📄 upgrade
📄 upgrade.lgu
📄 upgrade_A.map
📄 upgrade_B.map

2.8
Kia Gen 2.0 2018 Update

2.8.1 Kia Gen 2.0 2018 Update

These steps need to be performed ONE TIME only to create the STK. As soon as the STK is ready, you may delete the files from your PC.

Step 1:
Please open the folder with the downloaded ZIP files and locate the
Kia_Gen2_Software_2018.zip

Step 2:
Right click on the file and select "WinZip"

Step 3:
Select "Extract to folder". WinZip will now extract the files to a new folder named like the navigation platform.

Step 4:
WinZip is now extracting the files.

Step 5:
The new folder is visible now.

Step 6:
Double Click the folder to open it until you see the files.

2.8.2 Kia Gen 2.0 2018 Update

Step 7:
Select the files in the folder. Right click on the marked files and select "Copy"

Step 8:
Please right click on the SD card folder and paste the data on the SD card.

Step 9:
Now you created a SD card to update Gen 2.0 system software to 2018 version.

- Aerith.exe
- checksums.md5
- eu20_hei_upgrade.lgu
- eu20_hse_upgrade.lgu
- eu20_kei_upgrade.lgu
- eu20_kse_upgrade.lgu
- eu20_ksp_upgrade.lgu
- eu20_upgrade.lgu

2.9.
Kia Gen 4.x 2018 Update

2.9.1 Kia Gen 4.x 2018 Update

These steps need to be performed ONE TIME only to create the STK. As soon as the STK is ready, you may delete the files from your PC.

Step 1:
Please open the folder with the downloaded ZIP files and locate the
Kia_Gen4.x_Software_2018.zip

Step 2:
Right click on the file and select "WinZip"

Step 3:
Select "Extract to folder". WinZip will now extract the files to a new folder named like the navigation platform.

Step 4:
WinZip is now extracting the files.

Step 5:
The new folder is visible now.

Step 6:
Double Click the folder to open it until you see the files.

2.9.2 Kia Gen 4.x 2018 Update

Step 7:
Select the files in the folder.
Right click on the marked
files and select
"Copy"

📁 IBOX
📄 IBOX.md5

⚠️

Step 8:
Please right click on the SD
card folder and paste the data
on the SD card.

Step 9:
Now you created a SD card to
update Gen 4.0 system
software to 2018 version.

2.10
Kia iAVN 2018 Update

2.10.1 Kia iAVN 2018 Update

These steps need to be performed ONE TIME only to create the STK. As soon as the STK is ready, you may delete the files from your PC.

Step 1:
Please open the folder with the downloaded ZIP files and locate the
Kia_ iAVN_Software_2018.zip

Step 2:
Right click on the file and select "WinZip"

Step 3:
Select "Extract to folder". WinZip will now extract the files to a new folder named like the navigation platform.

Step 4:
WinZip is now extracting the files.

Step 5:
The new folder is visible now.

Step 6:
Double Click the folder to open it until you see the files.

2.10.2 Kia iAVN 2018 Update

Step 7:
Select the files in the folder.
Right click on the marked files
and select
"Copy"

Step 8:
Please right click on the SD
card folder and paste the
data on the SD card.

Step 9:
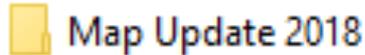Now you created a SD card to
iAVN system software to 2018
version.

📁 CAVNEU_CK
📁 CAVNEU_K
📁 CAVNEU_UM
📄 checksums.md5

⚠️

2.11
Creating the Map Data folder

2.11 Creating the Map Data folder

Step 1:
Please create a new folder on your computer and name it "Map Update 2018"

Step 2:
This folder will serve as your central storage of the Map Data for
- Gen 2.0
- Gen 4.x
- iAVN

Step 3:
Copy the downloaded and extracted Map Data files into this folder.
You will need approx. 41 GB of hard disk space.

📁 Map Update 2018

📁 Kia_Gen2_Map_2018
📁 Kia_Gen4x_Map_2018
📁 Kia_iAVN_Map_2018
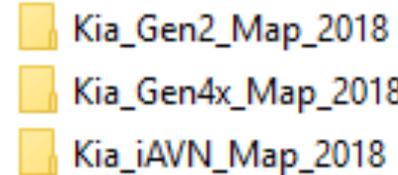
2.12
Verifying Map Data files

2.12 Verifying Map Data files

Please right click on the individual map data folder and select "Properties".
The file properties must match the below information.

Gen 2.0

Type:	File folder
Location:	C:\Users\Winter\Desktop\2017RU\Kia\Gen2.0 20
Size:	7.40 GB (7,955,382,428 bytes)
Size on disk:	7.40 GB (7,956,496,384 bytes)
Contains:	665 Files, 7 Folders

Gen 4.x

Type:	File folder
Location:	C:\Users\Winter\Desktop\2017RU\Kia\Gen4.0 20
Size:	11.7 GB (12,570,344,308 bytes)
Size on disk:	11.7 GB (12,571,103,232 bytes)
Contains:	366 Files, 66 Folders

iAVN

Type:	File folder
Location:	C:\Users\Winter\Desktop\2017RU\Kia\iAVN_2018
Size:	17.0 GB (18,330,038,474 bytes)
Size on disk:	17.0 GB (18,331,107,328 bytes)
Contains:	556 Files, 127 Folders

2018 MapCare update

Vehicle update manual

AVN 1.x

AVN Platform	Vehicle Name
AVN GEN 1.X	Venga (YN) cee'd (ED JD) Sportage (SL, SLFL) Sorento (XM, XMFL) Optima (TF, TFFL) Rio (UB) Carens(RP)

AVN 1.x – existing TSB's

Before performing the update make sure that the vehicle is equipped with software 5.1.3 or newer, if not please refer to the relevant TSB.

If the current version is lower than 5.1.3, the pop-up screen is displayed as shown below.
Upgrade the software to 5.1.3 version according to the previous TSB.

In case of above screen message, please refer to TSB KGE12-92-P140-YNEDSLXMTFUBQB

AVN 1.x - Step 1 - in Vehicle
System Software and Map Upgrade (Duration <90 min)

Insert the USB with the upgrade files into the car's USB port

The system will automatically recognize the new system and map software and displays current and new software and map information

Press [OK] then [Agree] to proceed
The system will start performing the upgrade for both the system and the map

AVN 1.x - Step 2 - in Vehicle
Check Map and Software Version (Duration <1 min)

After the update has finished, long press on the [SETTINGS] button.
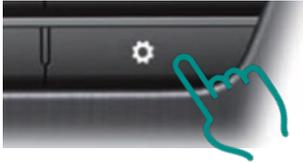
Check the software and map versions

Your device ID: 001EB2E4F702
Please visit the web site for map upgrades.
(http://www.navigation.com/kia).

Software info:
  System version: 7.8.3
  Bluetooth version : 3.2.2
  Navigation version : EU.10.49.41
  Map database version : 117E7AC
  Firmware version : 1.7.3_SL

OK

Gen1.x	System version	7.8.3
	Navigation version	EU.10.49.41
	Map database version	117E7AC

AVN 2.0

AVN Platform	Vehicle Name
AVN GEN 2.0	Picanto (TA) Rio (UB) Venga (YN) Optima (JF) New Sportage (QL) New Sorento (UM)

AVN 2.0 - Step 1 - in Vehicle
System Software Upgrade (Duration <12 min)

Remove the map SD-Card from the SD-Card slot
Insert the SD card with the upgrade files into
the the SD-Card slot

System automatically detects an upgrade file on
the SD-Card and displays a window with old and
new software information

	Current version	New version
System S/W	UM.EU.SOP.20 - 1.6.6	UM.EU.SOP.20 - 1.7.8
Firmware	UM.EU.SOP - 1.0.9	UM.EU.SOP - 1.3.0
Navi. App	UM.EU.SOP - 094947	UM.EU.SOP - 104955

| Upgrade | Cancel |
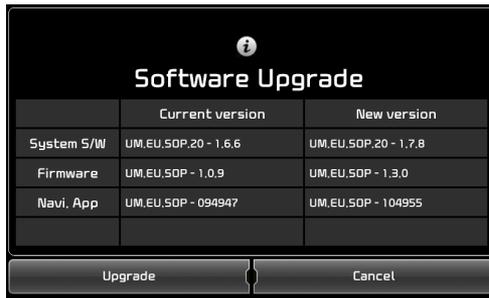
Click on the [Upgrade] then [Agree] buttons

If the screen remains black, make sure to click the "On" Button once
System starts the upgrade process
Once the update is completed, the system automatically reboots
Long press on the [SETTINGS] button.

Check that the new S/W version is displayed
Remove SD Card.

```
REG              00:27
Device information              ↰

Device ID C4366CF11FBC
For further information about your Map upgrade,
please visit the website.
(http://www.navigation.com/kia)

Software ver. : UM.EU.SOP.10.178
Firmware ver. : UM.EU.SOP.10.130
Navi app ver. : UM.EU.SOP.10.49.55
Map ver. : EUR.10.48.54.001.001(D.D2)
```

In some cases „Invalid
MapVersion" appears. This
is caused by the removal
of Map SD Card and has no
impact on the software
update.

- Check that the Map SD is unlocked
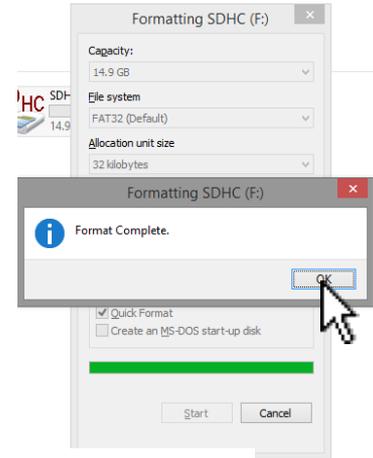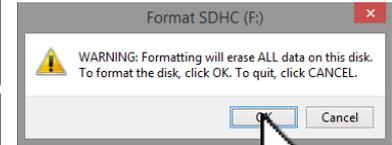- **Insert** the card in the SD slot of your computer

Unlock

- Select SD card drive and click the right mouse button and click [**Format**]

  NOT FORMATTING THE SD CARD WILL LEAD TO UPDATE ISSUES!

- Use the following settings:
  Files System: FAT32 (Default)
  Allocation unit size: 32KB
- Click [**Start**] button
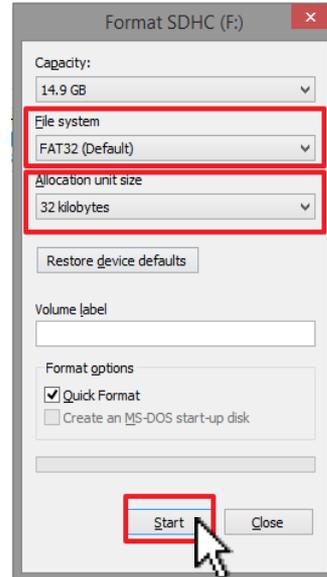
- Start format by clicking [**OK**]
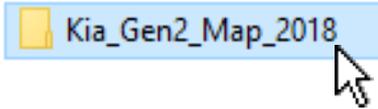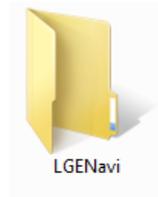- When format is done click [**OK**]
- Duration: **< 5 sec**

AVN 2.0 – Step 3 – on PC
Copy Map Data to Customer's SD Card (Duration <20 min)

- Open the AVN2.0 map folder on your PC

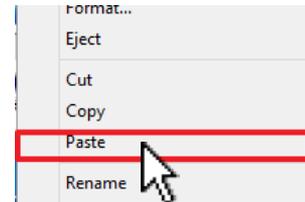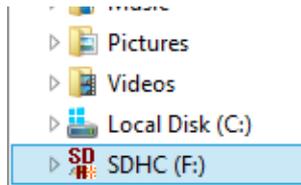
- Select [LGENavi]

- Click right mouse button and left click on **"COPY".**
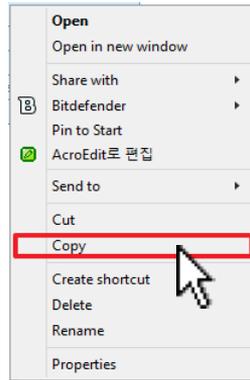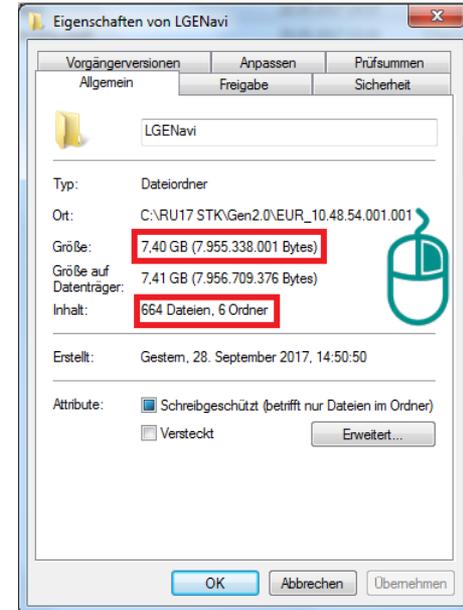

- Right click on the SD card drive and click on "PASTE" to copy the map on the SD Card.
- Copying the map will start
- Duration: < 20 min

  DO NOT COPY OTHER FILES ON THE SD CARD

- Check copy completion
- Select ALL files
- Click right mouse button and click [**Properties**]
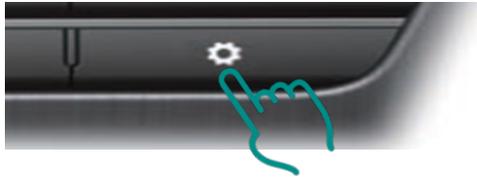- Check number of data/folder and size.

AVN 2.0 – Step 4 – in Vehicle
Check Map and Software in the System (Duration <2 min)

- Put the update Map SD Card back in the SD slot

- System will reboot

- Long press on the [SETTINGS] button.

- Check the Navi app and Map versions

EU AVN2.0	System ver.	XX.EU.SOP.XX.178
	NAVI app ver.	XX.EU.SOP.10.49.55
	Map ver.	EUR.10.48.54.001.001(D.D2)

AVN 4.0
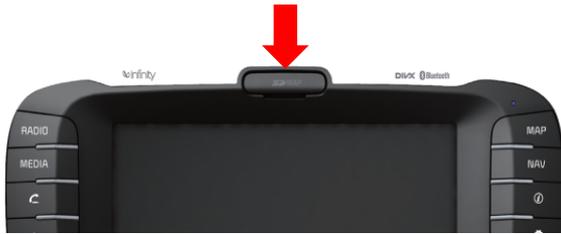
AVN Platform	Vehicle Name
AVN GEN 4.0	Soul (PS, PSEV) Sorento (UM) Optima (TF, TF HEV)

Gen 4.0 – Step 1 – in Vehicle
System Software Upgrade (Duration <20 Min)

Remove Map SD card from the slot

Unlock

and insert unlocked SD Card
into SD Card slot

- Press [SETTINGS] button once->

- Scroll down to [SYSTEM INFO] and press the icon

- System will reboot once the update is complete (< 20 min)
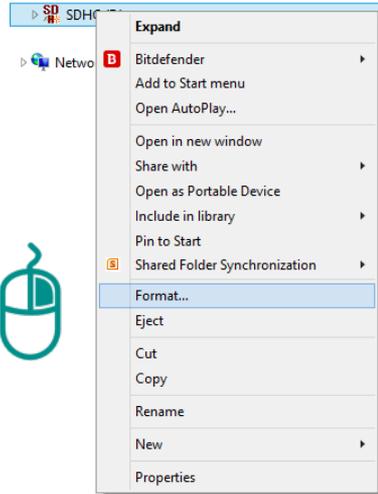- Go back to [SYSTEM INFO] to check if the new S/W version is displayed

Gen 4.0 - Step 2 - on PC
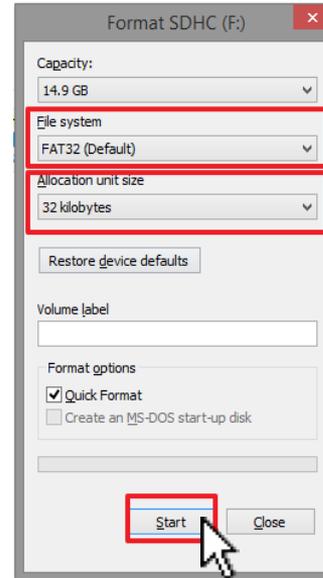# Format "Customer's SD Card" (Duration <5 Secs)

- Check that the Map SD is unlocked
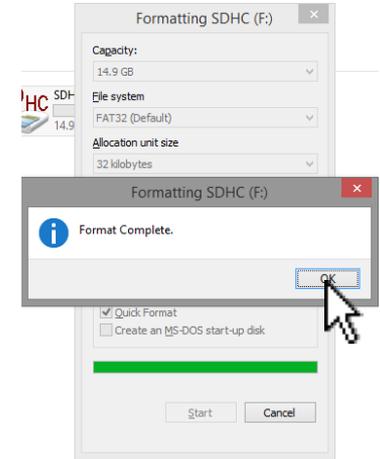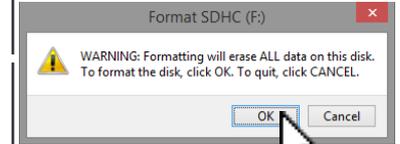- **Insert** the card in the SD slot of your computer

Unlock

- Select SD card drive and click the right mouse button and click [**Format…**]

NOT FORMATTING THE SD CARD WILL LEAD TO UPDATE ISSUES!

Expand
Bitdefender
Add to Start menu
Open AutoPlay...
Open in new window
Share with
Open as Portable Device
Include in library
Pin to Start
Shared Folder Synchronization
Format...
Eject
Cut
Copy
Rename
New
Properties

- Use the following settings:
  Files System: FAT32 (Default)
  Allocation unit size: 32KB
- Click [**Start**] button

Format SDHC (F:)

Capacity:
14.9 GB

File system
FAT32 (Default)

Allocation unit size
32 kilobytes

Restore device defaults

Volume label

Format options
☑ Quick Format
☐ Create an MS-DOS start-up disk

Start   Close

- Start format by clicking [**OK**]
- When format is done click [**OK**]
- Duration: **< 5 sec**

Format SDHC (F:)

⚠ WARNING: Formatting will erase ALL data on this disk.
To format the disk, click OK. To quit, click CANCEL.

OK   Cancel

Formatting SDHC (F:)

Capacity:
14.9 GB

File system
FAT32 (Default)

Allocation unit size
32 kilobytes

Formatting SDHC (F:)

ℹ Format Complete.

OK

☑ Quick Format
☐ Create an MS-DOS start-up disk
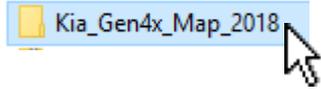
Start   Cancel

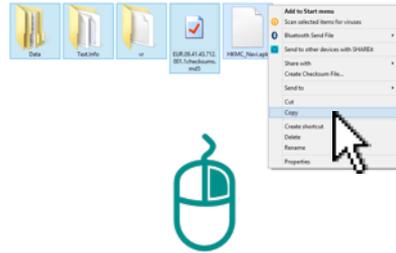# Gen 4.0 – Step 3 – on PC
Copy Map Data to Customer's SD Card (Duration <20 min)

- Open [MAP Update 2018] folder on your PC
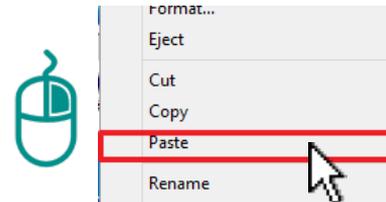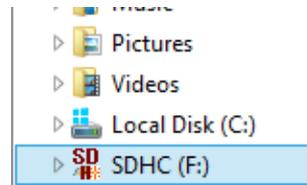- Open [Kia_Gen4x_Map_2018]

- Select ALL files
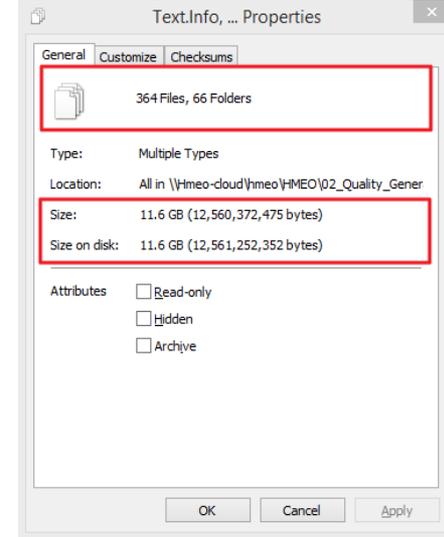- Click right mouse button and click [COPY]

- Select SD Card drive
- Click the right mouse button and click [PASTE]
- Duration: < 20 min

DO NOT COPY OTHER FILES ON THE SD CARD

- Check copy completion
- Select ALL files
- Click right mouse button and click [PROPERTIES]
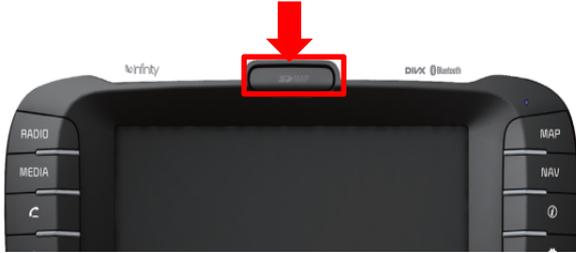- Check number of data/folder and size.

Gen 4.0 – Step 4 – in Vehicle
Check Map in the System (Duration <2 min)

Insert the updated Map SD card back into the SD Card slot

If the system was ON it will reboot

The map should be displayed on the [HOME] screen

- Press [SETTINGS] button ->

- Scroll down to [SYSTEM INFO] and press the icon

- Check that the new version is displayed

AVN GEN 4.0	System ver.	E530.170925	
	Navi app ver.	ST4.EUR.KMC.170921.XXXXXXX	
	Map ver.	EUR.10.41.46.551.001(D.D2)	
		EUR.10.41.46.551.001(D.D2 / E.D1)	For EV

iAVN

AVN Platform	Vehicle Name
iAVN	Niro (DE HEV, DE PHEV) Optima (JF 2017, JF PHEV, JF WGN, JF WGN PHEV) Sportage 2017 (Qle) Soul 2017 (PS PE) Carens (RP PE) Rio (YB) Stonic (YB CUV) Stinger (CK) Sorento PE (UM PE)

iAVN - Step 1 - in Vehicle
System Software Upgrade (Duration <15 min)

- Remove the map SD-Card from the SD-Card slot
- Insert the SD card with the upgrade files into the SD-Card slot

- System automatically detects an upgrade file on the SD-Card and displays a pop-up showing the new software information

Press [OK] to update the software. All other functions will be deactivated during the update.
Update information:
PS.EUR.SOP.005.3

OK   Cancel

- Click on [OK]

- System starts the upgrade process
- During the upgrade process, the system will boot several times
- Wait until the window with [Upgrade completed] is displayed.

- Click on the [SETTINGS] icon.
- Scroll the screen to the next page.
- Click on the [SYSTEM INFO] icon.

- Check that the new S/W version is displayed
- Remove SD-Card.

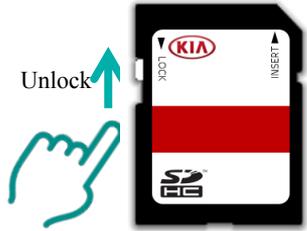| System info		
Version info	Software	PS.EUR.SOP.005.3.170927
	Firmware	PS.EUR.0.5.222.170920.MICOM
Update	NAV APP	STD_AVN_MID.EUR.KMC.170927.a803344
	Map	EUR.10.41.46.701.002.2(D.D2)
Default	Device ID	4207981470

In some cases „Invalid MapVersion" appears. This is caused by the removal of Map SD Card and has no impact on the software update.

- Check that the Map SD is unlocked
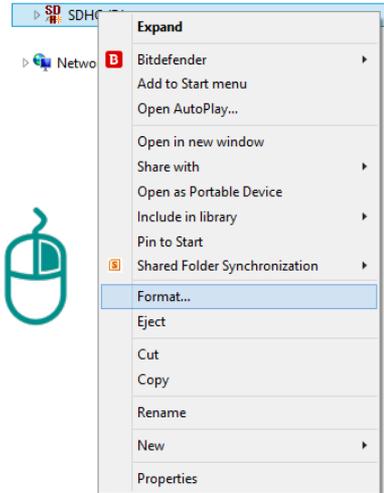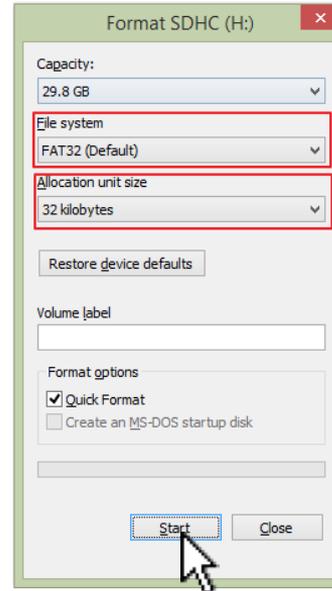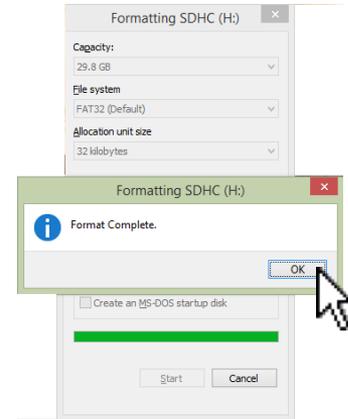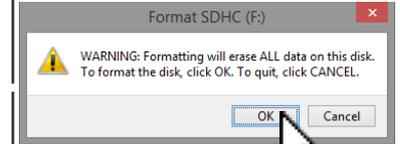- **Insert** the card in the SD slot of your computer

Unlock

- Select SD card drive and click the right mouse button and click [**Format**]

NOT FORMATTING THE SD CARD WILL LEAD TO UPDATE ISSUES!

Expand
Bitdefender
Add to Start menu
Open AutoPlay...
Open in new window
Share with
Open as Portable Device
Include in library
Pin to Start
Shared Folder Synchronization
Format...
Eject
Cut
Copy
Rename
New
Properties

- Use the following settings:
  Files System: FAT32 (Default)
  Allocation unit size: 32KB
- Click [**Start**] button

Format SDHC (H:)

Capacity:
29.8 GB

File system
FAT32 (Default)

Allocation unit size
32 kilobytes

Restore device defaults

Volume label

Format options
☑ Quick Format
☐ Create an MS-DOS startup disk

Start   Close

- Start format by clicking [**OK**]
- When format is done click [**OK**]
- Duration: **< 5 sec**

Format SDHC (F:)

⚠ WARNING: Formatting will erase ALL data on this disk. To format the disk, click OK. To quit, click CANCEL.

OK   Cancel

Formatting SDHC (H:)

Capacity:
29.8 GB
File system
FAT32 (Default)
Allocation unit size
32 kilobytes

Formatting SDHC (H:)

ℹ Format Complete.

OK

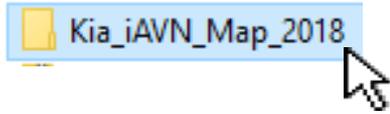☐ Create an MS-DOS startup disk

Start   Cancel
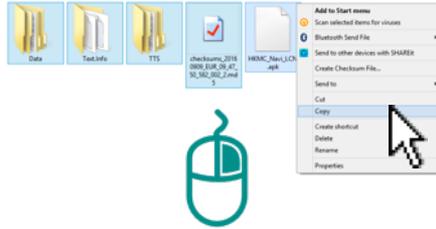
iAVN – Step 3 – at PC
Copy Map Data to Customer's SD Card (Duration <20 Min)

- Open [MAP Update 2018] folder on your PC
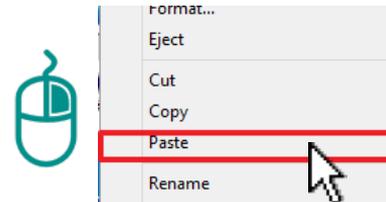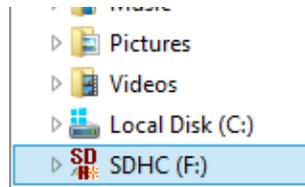- Open [Kia_iAVN_Map_2018]

- Select ALL files
- Click right mouse button and click [**COPY**]
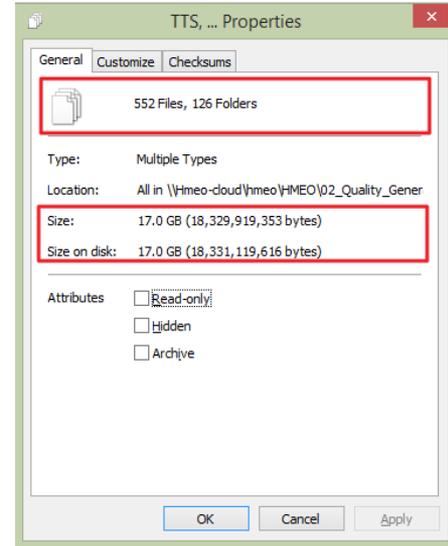

- Select SD Card drive
- Click the right mouse button and click [**PASTE**]
- Duration: < 20 min

DO NOT COPY OTHER FILES ON THE SD CARD

- Check copy completion
- Select ALL files
- Click right mouse button and click [**PROPERTIES**]
- Check number of data/folder and size.

iAVN - Step 4 - in Vehicle
Check System and Map in the System (Duration <2 min)

- Re-insert the upgraded map SD-Card into the SD-Card slot.
- If the system is ON, it will reboot

- Click on the [SETTINGS]/[SETUP] button.
- Scroll the screen to the next page.
- Click on the [SYSTEM INFO] icon.

- Check that the new software, Navi app version and Map version are displayed

iAVN	System ver.	XX.EUR.SOP. 002.5.170920	Stinger and Sorento PE
		XX.EUR.SOP. 005.3.170927	
	Map ver.	EUR.10.41.46.701.002.2(D.D2)	
		EUR.10.41.46.701.002.2(D.D2/E.D1)	For PHEV

Release Notes Update 2018

Software / Map Update

Software Overview

Platform	Vehicle	SW Version	Map DB version
Gen 1.x	TF, UB, JD, XM FL, RP, TF FL, SL FL, YN, ED, SL, XM	**SW 7.8.3**	**117E7AC**
Gen 2.0	UM, YN, UB, GB, TA, JD, JD S/P, JF, QLe, UM17MY	**xx.EU.SOP.20.178**	**EUR.10.48.54.001.001(D.D2)**
Gen 4.0	PS, TF FL, TF FL HEV, PSEV, UM, PSEV17MY ('16.7), UM17MY ('16.10)	**ST.xx.EUR.E530.170925**	**EUR.09.41.43.712**
iAVN	PS, JF_PHEV, JF_Wagon, JF_PHEV_WGN, JA, YB, RP, DE_HEV, JF_17MY, JD_17MY, QL_17MY, JD_17MY_WGN	**XXX.EUR.SOP.005.170927**	**EUR.09.47.50.582.002.2(D.C1) : Normal / HEV Europe** **EUR.09.47.50.582.002.2(D.C1/E.C1) : EV / PHEV Europe**

	Gen 1.x	**Gen 2.0**	**Gen 4.x**	**iAVN**
New features	**ECO Data removed**	**TomTom Live Services**	**Android Auto,Apple Car Play (Only for UM , PS, VF)**	**TomTom Live Services, Android Auto,Apple Car Play**

Map Changes - GEN1.x (1/2)

Map Version	117E7AC > Gen1.x

	No	Changes	Details
Major Changes	1	Change source data	• HERE Map DB : 15Q4 → 17Q1 • HERE Traffic Pattern : 15Q4 → 16Q4 • HERE HYUNDAI/KIA POI : November 2016 • HERE Hydrogen Station POI : 15Q4 → 17Q1 • ZENRIN Junction View : 15Q4 → 17Q1
	2	Countries Covered	• 45 Countries .
	3	Reflect the cost of Route-Planning data.	• Reflect the cost of Route-Planning which is tuned for unpaved road of Northern Europe including Iceland.
	4	Fixed the house-number for POIs.	• Fixed using matching table because the actual house-number for POIs was not applied to latest map version.
	5	Modify the multilingual name of gas station for POI	• Changed the name of the gas station in Swedish. • Bensinstation → Bränslestation

Map Changes – Gen 2.0 (2/2)

Map Version	EUR.10.41.54.001.001 > Gen 2.0		

	No	Changes	Details
Major Changes	1	Change source data	• HERE Map DB : 15Q4 → 17Q1 • HERE Traffic Pattern : 15Q4 → 16Q4 • HERE HYUNDAI/KIA POI : November 2016 • ZENRIN Junction View: 15Q4 → 17Q1
	2	Countries Covered	• 45 Countries .
	3	Apply to latest border crossing data	• Apply to the data from HMETC
	4	Modify the Near-by search data.	• Modify the Near-by search data, because POIs of Travel Category can not search at all
	5	Reflect the cost of Route – Planning data.	• Reflect the cost of Route-Planning which is tuned for unpaved road of Northern Europe • including Iceland.
	6	Modify the multilingual name of gas station for POI	• Changed the name of the gas station in Swedish. Bensinstation -> Bränslestation

Map Version	EUR.09.41.43.712(17 Q1) > Gen 4.x
Changes	• 45 Countries covered • Improved to load several missed or mismatched transliteration language street name of POI > fixed • Fixed error unnecessary polygon > fixed • Improved route guidance load missing RG at IC > fixed • Fixed background of island 0Level world map.> fixed • Improved not to load unnecessary country border > fixed • Improved not to overlapped flag > fixed • Improved not to load unnecessary land polygon> fixed • Keep left but need "turn right" at right side curved point > fixed • No guidance but need "keep on the left lane and turn left"> fixed • Change service area route guidance > fixed • Fixed not loaded complex polygons on 7 level > fixed • Added far east Russia territory > fixed • Delete PJ-C forward direction when exist PJ-M and PJ-C by spec > fixed • Changed spec rest area POI > fixed • Polyline to improve display highways on upper level. • Improved elevation contour quality > fixed • Made Cyprus as non-target country > fixed • Changed wrong sharply right turn RG to left turn > fixed • Deleted RG in an abrupt turn road of mountain area > fixed • Delete city text in ocean • Display Madrid text on 1000KM scale • Increased the number of road number • Improved river not to disconnected • Applied guidance by checking NOTHRU PROHIBIT • Fixed error texts are displayed on 10 km scale • Fixed error duplication house number • Improved admin texts • Improved RG not to guide STF → STF link at round about • Improved RG to not to load duplicate guidance at the IC and PJ-M link. • Ramp average speed patch to original value • Added search data for common postal code of unnamed road

Annex 1: Map Bugfixes iAVN (3/3)

Map Version	EUR.09.47.50.581(17 Q2) > iAVN
Changes	• 46 Countries covered • Deleted internal border of UK between England, Scotland, Wales and Northern Ireland > fixed • Deleted lane connectivity information > fixed • Improved RG point at IC with special explication point > fixed • Improved to add turn RG at the intersection by specifying the spec .> fixed • Improved not to display road sign symbol> fixed • Added Russian language in Belarus for search • Lower level to prevent city ENG or RUS mode text is present on the ocean and loaded only on lands or islands • Improved possible to search street name after premium postal code filter in Netherlands and UK • Improved to load several missed or mismatched transliteration language street name of POI. • If several official names exist for one city name, improved to display the its own country's language name firstly • Fixed error unnecessary polygon • Improved route guidance load missing RG at IC • Fixed background of island 0Level world map. • Improved not to overlapped flag • Polyline to improve display highways on upper level. • Fixed Mismatching NRT symbol • Improved not to load unnecessary land polygon • Improved city names are listed in twice by merging admin code (ex. Stockholm in Sweden, Turku in Finland and etc)

Annex 2: Software Changes (1/4)

Platform	SW 7.8.3> Gen 1.x	
	No	**Contents**
Changes	1	The Icelandic letter "Þ" modified from "P" to "T".
	2	Route planning algorithm improved for Northern Europe and Iceland.
	3	Latest house-numbers for POIs updated
	4	Swedish word for gas station updated. (Bensinstation à Bränslestation)

Annex 2: Software Bugfixes (2/4)

Platform	SW xx.EU.SOP 178> Gen 2.0	
	No	**Contents**
	1	[Edit] option added for SWRC mode.
	2	An option added to turn On/Off the OSD display when changing songs from Media.
	3	[Help] added in the settings.
	4	Pressing the phone key on the SWRC to run the BT pairing procedure directly when there is no paired phone.
Change Points	5	Repeat and shuffle button separated in Media.
	6	Russian language updated to display USB media tag information.
	7	Hyundai Service POIs updated.
	8	EU Maps - Road signs updated.
	9	Anti-hacking system updated.
	10	BT hands-free performance improved for DM and QL.
	11	Reverse warning priority added.

Annex 2: Software Bugfixes (3/4)

Platform	ST.xx.EUR.E530.170925 > Gen 4.x	
	No	**Contents**
Changes	1	• Apple Car play and Android auto introduction into **UM , PS carlines**
	2	• System SW size reduced to **~ 7GB**
	3	• Track list not updated in MY Music after entering the MY Music • Removal of 3rd Party app features.
	4	• When CP call active,system does not show OSD message for Seek Up / Down. • When Home Screen Displayed no OSD message to be displayed. • OSD layout has no Eclipsis Property • Incoming call OSD cleared when in Rear Gear. • Car Performance improved during high System load. • Removal of 3rd Party app features. • When Map HK is pressed,OSD does not clear.

Annex 2: Software Bugfixes (4/4)

Platform	SW SOP.005.3.170927 > iAVN	
	No	**Contents**
Change Points	1	BT hands-free performance improved for QL.
	2	RDS display and station list display algorithm in Radio improved.
	3	Delay occurs when switching to radio screen.
	4	Reverse warning priority added.
	5	Added the Regional function in radio.
	6	Green car, fuel efficiency display changed to 3-digit.
	7	EU dealer mode added.
	8	Low battery display spec changed
	9	DE PHEV : 25% or less, low battery color displayed Others : less than 25%, low battery color displayed
	10	Mute icon for CarPlay added on the status bar
	11	[iAVN] HeadLamp warning PU deleted.
	12	[iAVN] EU CK external amp model, ASD (Active Sound Design) feature added.
	13	[iAVN] Help button in Drive mode settings removed
	14	[iAVN] Rear camera driving view added.

Frequently Asked Questions

In case you experience problems, please contact the HERE Contact Center directly:

International Toll Free Number: 00800 18 23 53 22
Local Toll Free Number Germany: 0800 181 6065
Local Toll Free Number France: 0800 914 478
Local Toll Free Number Italy: 800 781 145
Local Toll Free Number UK: 08081 013885
Other Regions: +31 555 384 245

Please contact your Distributor, Sales Organization or HERE before submitting a field claim.

Frequently Asked Questions

Issue

The update of System Software fails or Map Data fails

Solution

Please check the pages with describing the platform you would like to update.

Especially:
- Is the SD card / USB stick formated properly?
- Did you copy the correct files?

Frequently Asked Questions

Issue

Download speed is slow

Solution

Try to download single files only and not all files at once.

Schedule downloads for hours of low frequency of your business, e.g. over night.

Frequently Asked Questions

Issue

The SD card is not recognized by the system

Solution

Check if the folders on the SD card are the correct ones. Detailed overviews of file size and files are available in this manual.

Check pages with ⚠ describing the process for the platform you are updating.

GEN 2.0, GEN 4.0 and iAVN systems recognize SD cards with max 32GB.