Global PDI Management System

v 1.0.6

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1. Overview

a. Operation Process

Port / Dealer

* PDI : Pre-Delivery Inspection

Data input by workers

① Port(Dist./Off-Site) Storage vehicle inspection
② Port(Dist./Off-Site) PDI
③ Dealer Storage vehicle Management
④ Dealer PDI

※ PDI : Pre-Delivery Inspection.

Hand over

GPMS

* GPMS : Global PDI Management System

Tablet PC

Main Server

GPMS Web

Data classification & display by model, period, nations

H.Q/Subsidiary/Dist.

PDI/Storage vehicle inspection check

Inspection history check

Top Claim Monitoring

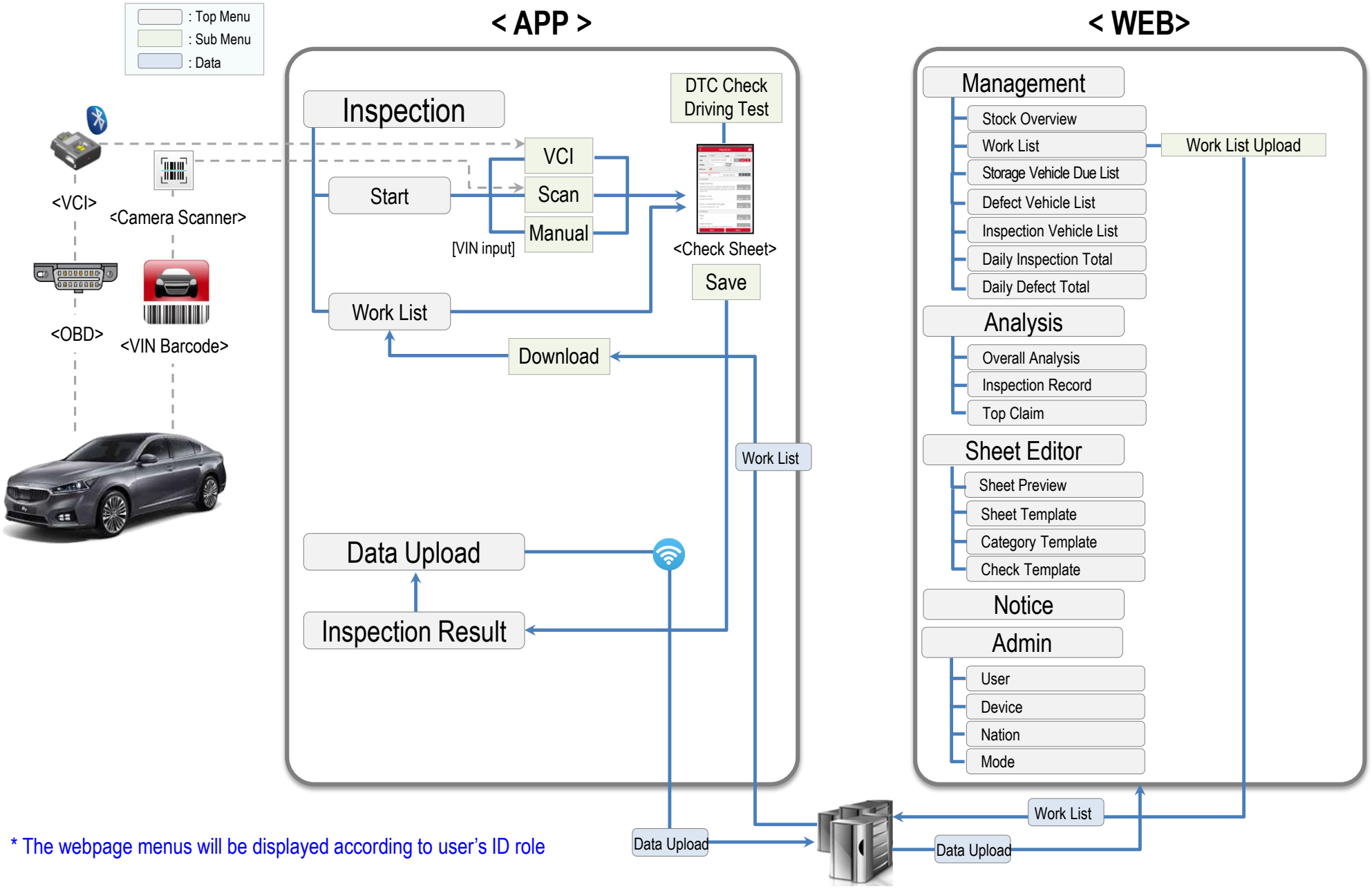
Giving feedback about quality Issue before sales

Establishing C/M quickly

Quality / R&D

1. Overview

b. System Flow



* The webpage menus will be displayed according to user's ID role

※ GPMS Device

App Device

mini VCI
(VIN recognition, Battery voltage test, DTC check)

+

Tablet PC

1. Device : Tablet PC + mini VCI

* KMC strongly recommends you to use mini VCI for GPMS.

* VCI-II is not available for GPMS due to several side effect such as decrease of DTC checking speed or S/W crash.

2. Tablet OS : Android (4.4.2 ~ 6.0.1)

* If KDS OS version is lower than 4.4.2, please use the KDS after update (KDS is compatible with GPMS).

	Tablet PC	API	Compatibility	Remarks
KMA Devices * Glovis USA / Port	Samsung Tab 2 – Model GT-P3113TS	4.2.2	X	API version is too old
	Samsung Tab 3 – Model SM-T210R	4.4.2	O	
	Samsung Tab 4 – Model SM-T230NU	-	O	
	Scanner /tablet combo - BP30-DS	4.4.4	X	GPS is not available

Web Device

1. Device : PC

2. Brower : Explorer11 (Optimized)**, Chrome** (Supported) * Safari / Fire fox will be supported

[System Requirements]

- Windows 7, 8, 10, 1GB RAM, 1280x1024 video resolution, Internet Explorer 11, High-Speed (1M or greater) Internet connection, Full-Screen Mode (press F11 in Internet Explorer) is recommended for best viewing

※ Contact Point for GPMS device order (GIT)

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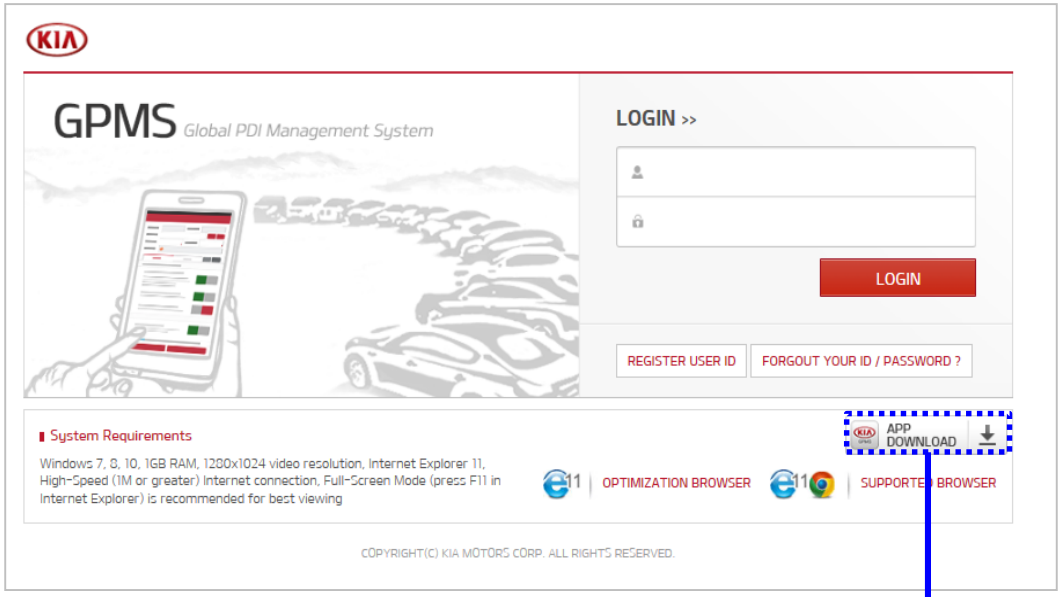
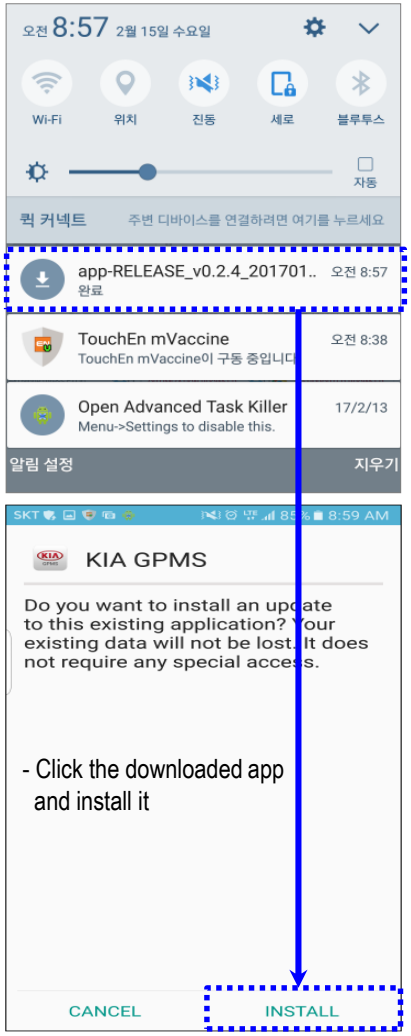
※ App download & Installation

Download the App

Access to Web and down load the App	Installation
◆ Web Address : http://gpms.kia.com  - Click the app download button and install GPMS app on your tablet PC	

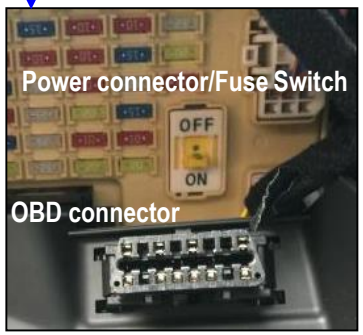
※ VCI connection

Connect VCI

※ VCI connection time will decrease after first B/T paring

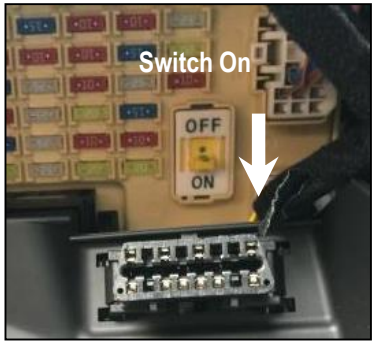
1 Open the cover of fuse box at instrument panel and connect VCI to OBD connector

[Fuse box at instrument panel]



[OBD connector& Fuse Switch]

2 Connect VCI to OBD connector and position power connector or fuse switch to “On” position to activate VCI communication

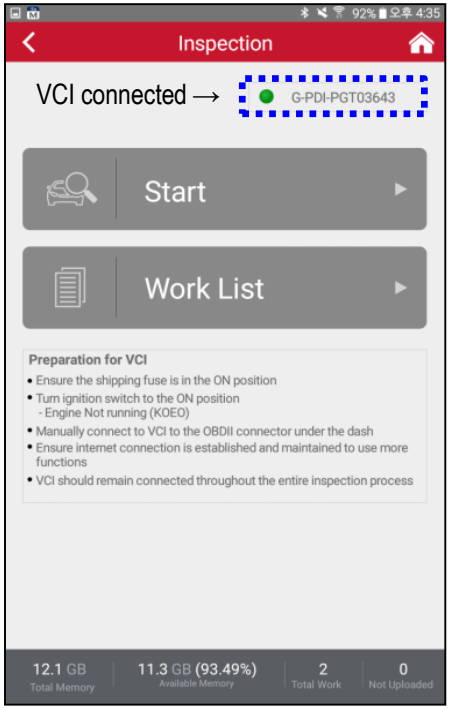


3 Press the Start & Stop button without pressing brake pedal
(It can be use on ‘Key ON’ or ‘IG ON’)

[Connected VCI]

· Red : Power On
· Green : Communicating with vehicle
· Blue : B/T is connected

4 Start app and use VCI functions.
(Details will be explained each page)

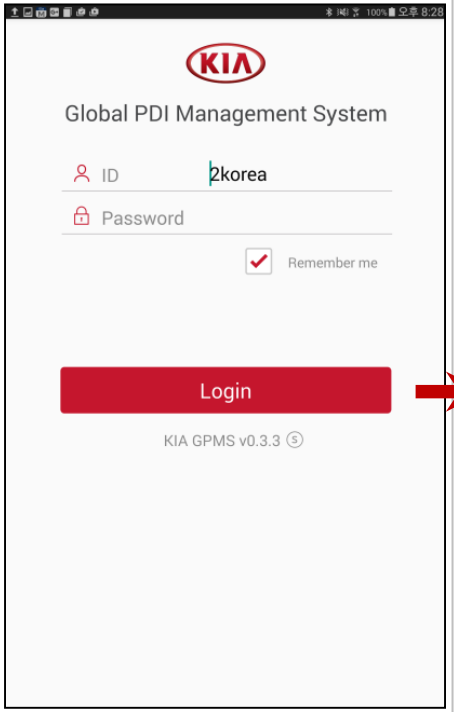


2. GPMS (App)

Log-in & Main

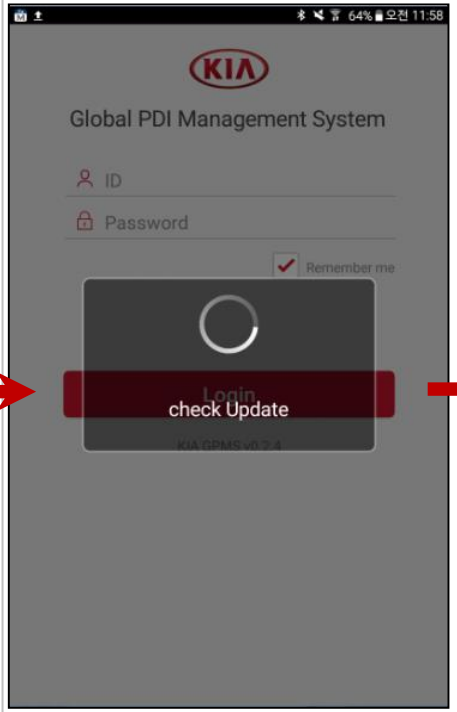
※ To avoid application error on KDS, KDS app must be updated with the latest version

Log-in



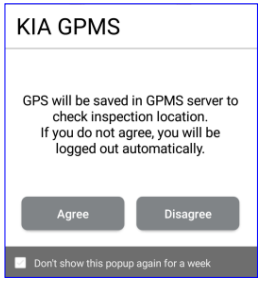
- Remember me : Remember ID logged in recently.
  * Multiple login is not available

Log-in (loading)



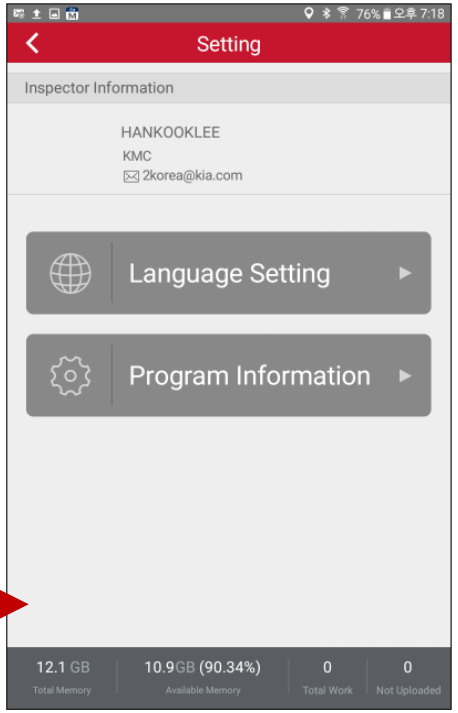
- If server connected, “check update” is working.
- If there is new version, the S/W will automatically downloaded.
- Off-line login is available after the first access (Initialization cycle : 12hr)

Main (after log-in)

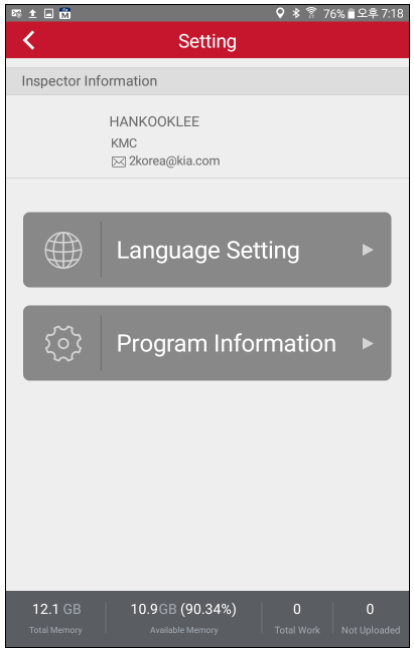
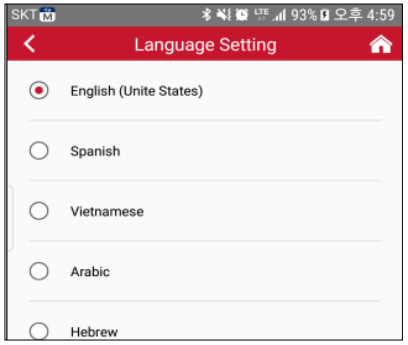
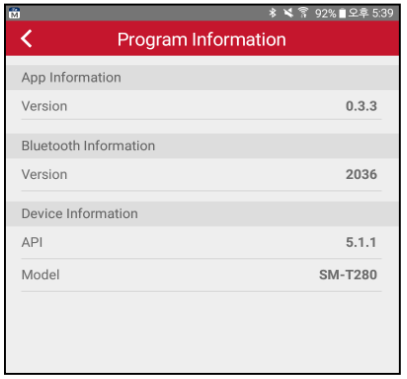


* This pop up will be shown on main page to gain consent for collecting GPS information.

Setting



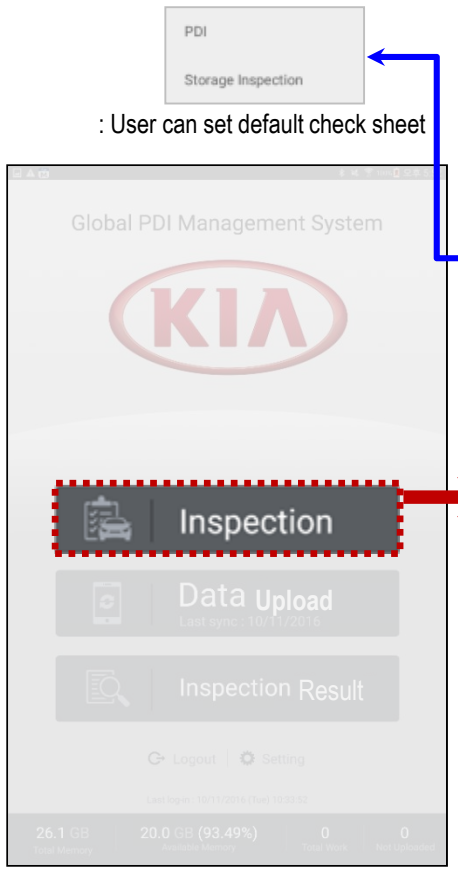
Log-in & Main > Setting

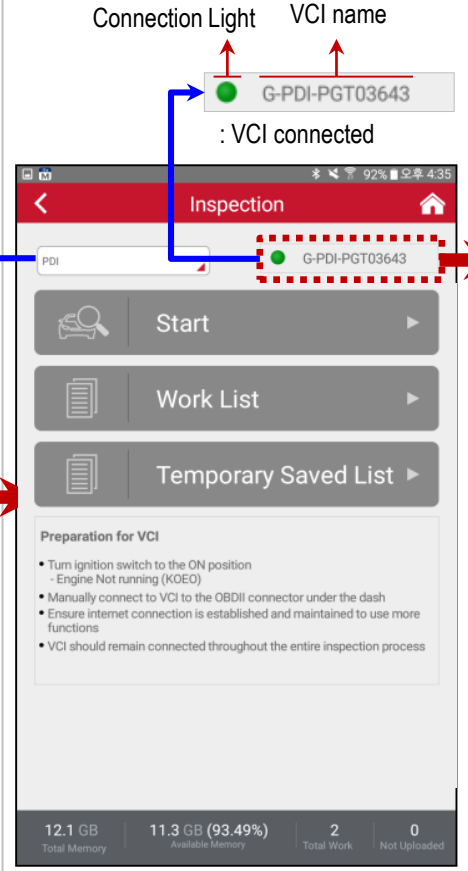
Setting Menu	Detail
	**1** Language Setting 
	2 Program Information 

Inspection > VCI connection

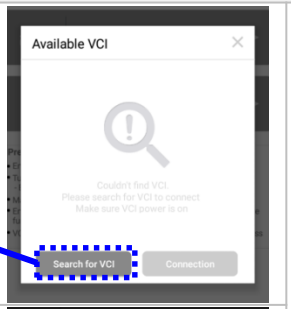
※ No need to VCI connection setting after first B/T setting that day

Inspection (VCI connection)

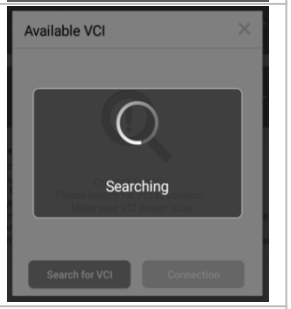




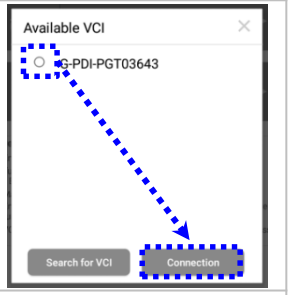
1 VCI Searching Button



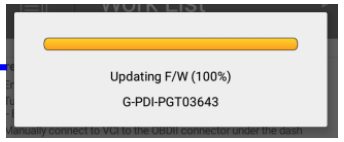
2 Searching Available VCI



3 Select VCI and press connection button



4 Updating F/W if there is a new version



- This VCI checking pop up will shown up to connect VCI automatically if the VCI was paired once.

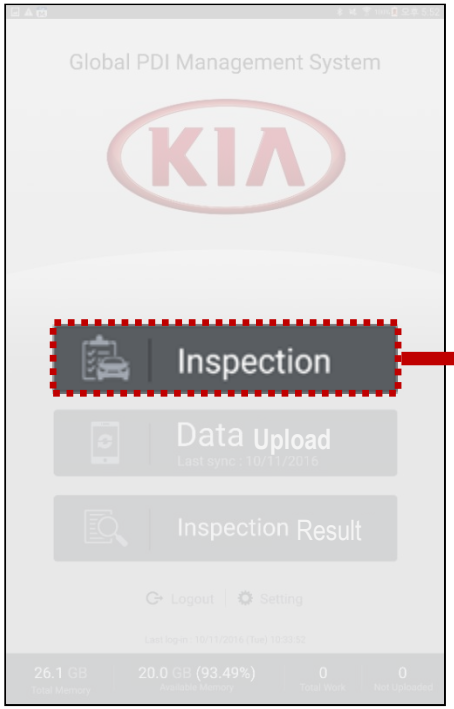
- If you do not need to use VCI, press the back button on the tablet PC. And then, the pop up will disappear.

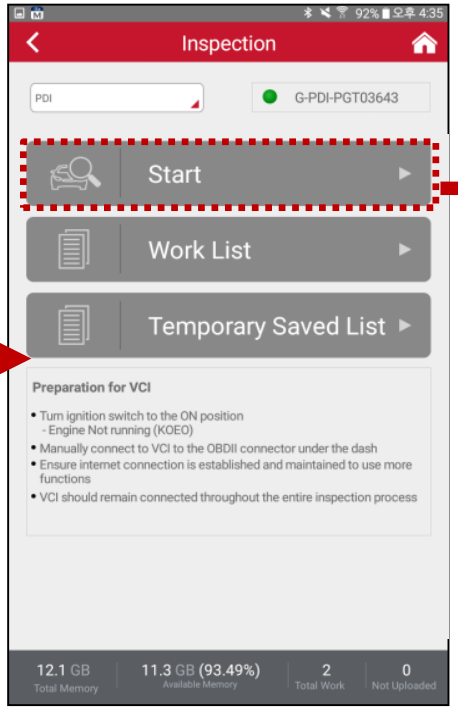
2. GPMS (App)

Inspection > Start

※ No need wi-fi : Scan VIN barcode on B-pillar or otherwise
※ Need wi-fi : Scan Body No. barcode on LH rear window

Inspection (Start)





1 Camera Scanning

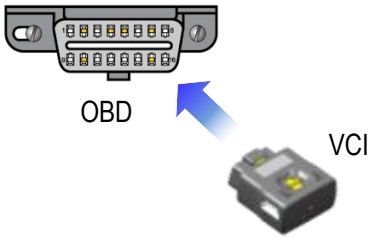
< VCI not connected >

* wi-fi connection is required

A check sheet will pop up after the barcode scanned by camera scanner

2 Auto VIN

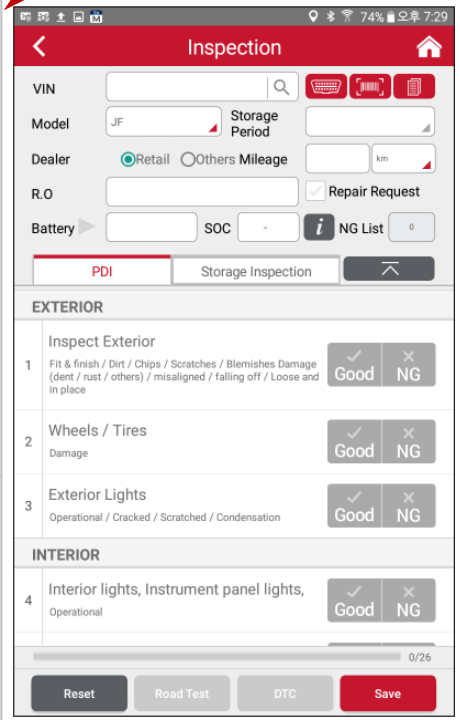
< VCI connected >



A check sheet will directly pop up after pressing 'Start' button if VCI is connected

* VIN/Model are automatically recognized in on line and off line.

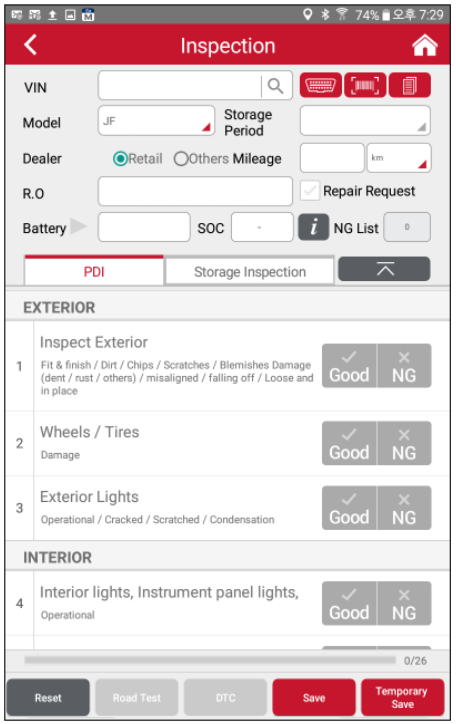
Check Sheet



Inspection > Start > Check sheet (1)

※ Battery SOC is available in on-line

Check Sheet

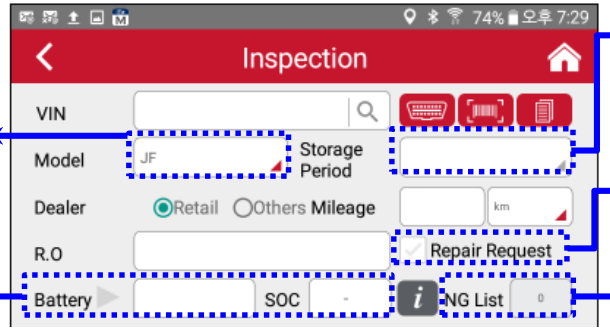


Detail

1

Model
- Will be automatically selected when VCI or camera scamming is used.
(It wouldn't be changed if the model is selected automatically)

Battery/SOC
- Indicate present battery voltage & SOC



Storage Period
- Will be activated when Storage vehicle sheet selected
(90, 180, 270 days.. – It depends on period)

Repair Request
- This check will be remained on Web.

NG List
- NG will be counted
- NG list will be display if it is clicked

2

Sheet type selection

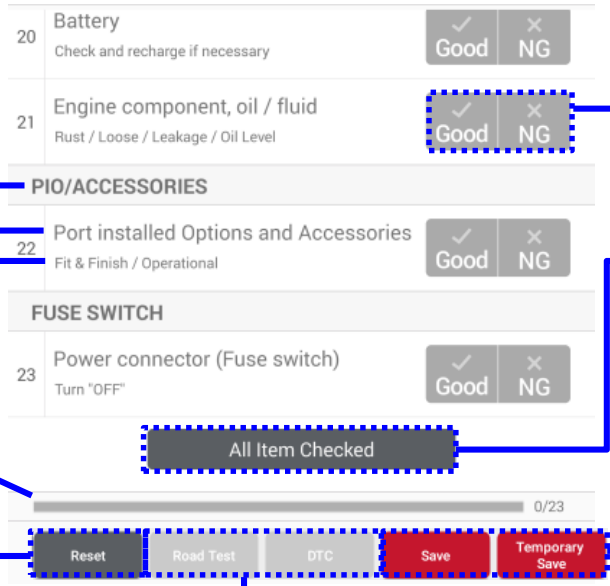
Folding(Unfolding) button
- The section 1 will be folded(unfolded) if the folding button is pressed

3

Category

Item

Detail



Good/NG button

All Item Checked button
- Will click all un-clicked good buttons at once
- This is located at the bottom of manual inspection sheet

Progress Bar

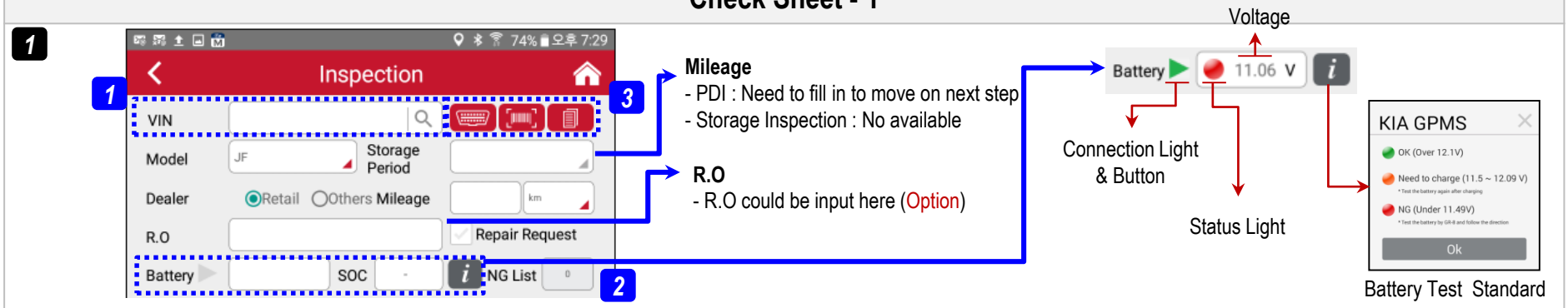
Reset Button
- Will reset all selections

Save/Temporary Save button

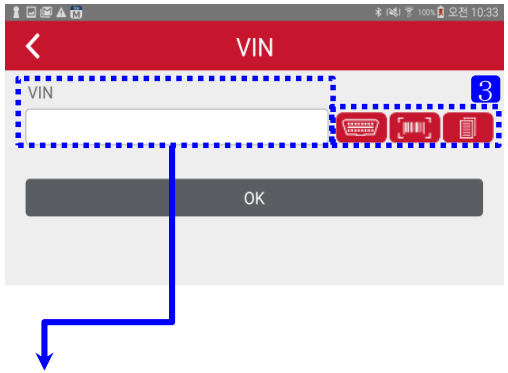
Road Test / DTC
- These buttons will be activated if VCI is connected

Inspection > Start > Check sheet (2)

Check Sheet - 1

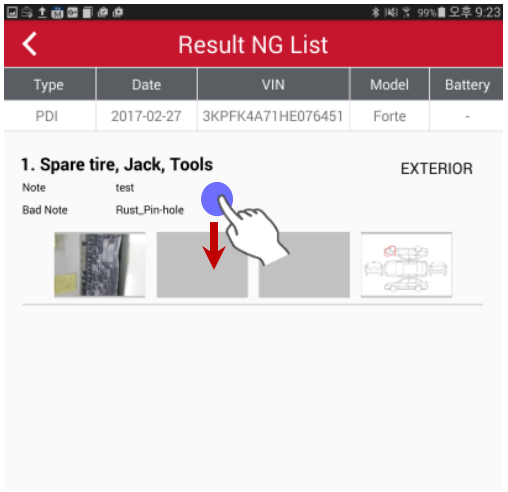


1 Manual VIN input
- VIN could be input by manual input



VIN input
- Input 17digit
- Activate “OK” button if the input number of VIN is 17 digit

2 NG list
- NG list will be displayed if it is clicked



3 VIN input mode

1) VCI
- It will be activated if VCI is connected
- VIN will be input if this button clicked

2) Camera Scanning
- The page will be changed to camera scanner if this button clicked

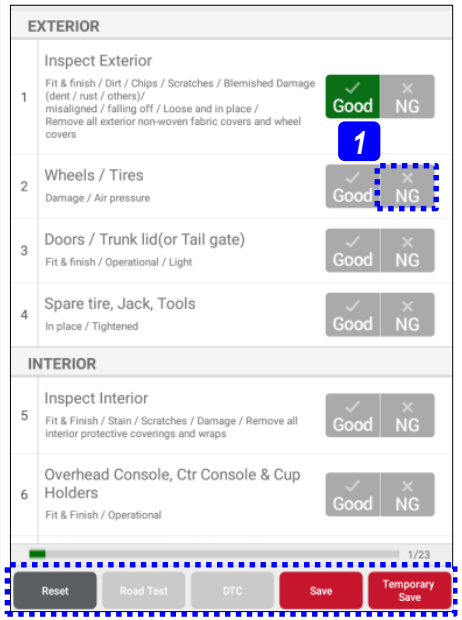
3) Work List
- The page will be changed to ‘Work List’ if this button clicked

* Work List will be introduced on ‘3) Inspection - Work List’

Inspection > Start > Check sheet (3)

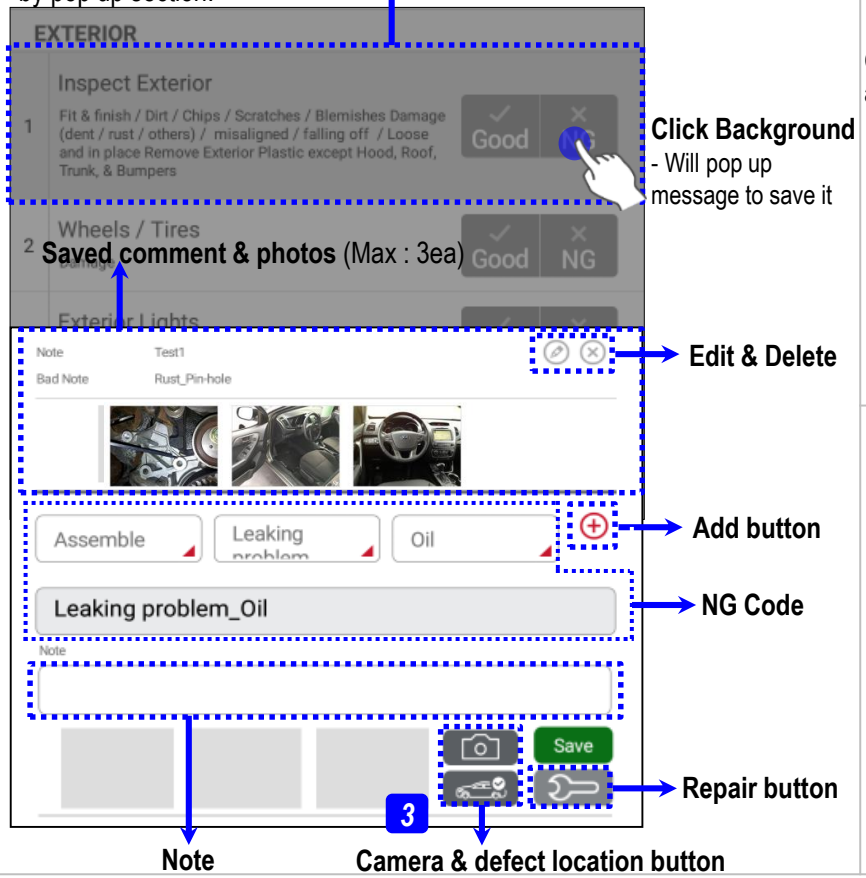
Check Sheet - 3

3



1 **NG input**
- Photo & Note could be input to record NG

Clicked section will be highlighted by dark gray
※ If the section at the bottom is clicked it will not be shown because it covered by pop up section.

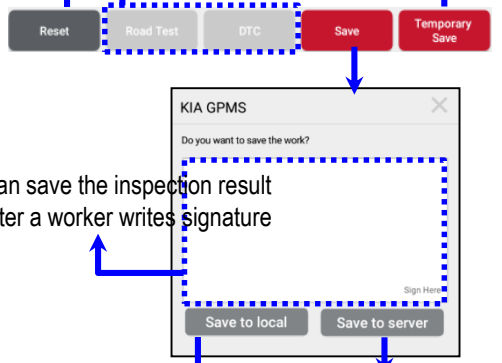


* Green color indicates something has been saved

2 **Road Test & DTC**
- Need to be connected with VCI

Message will pop up
If the button is clicked

Temporary Save



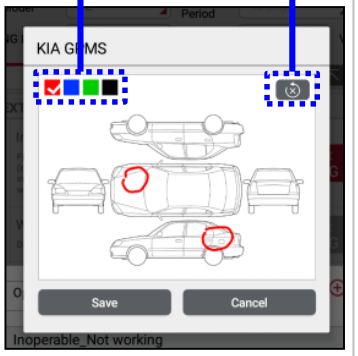
Save inspection results on device
The results will be uploaded at once when you click data upload button on main page.

3

Can mark exterior failure location with colors

Pen Color

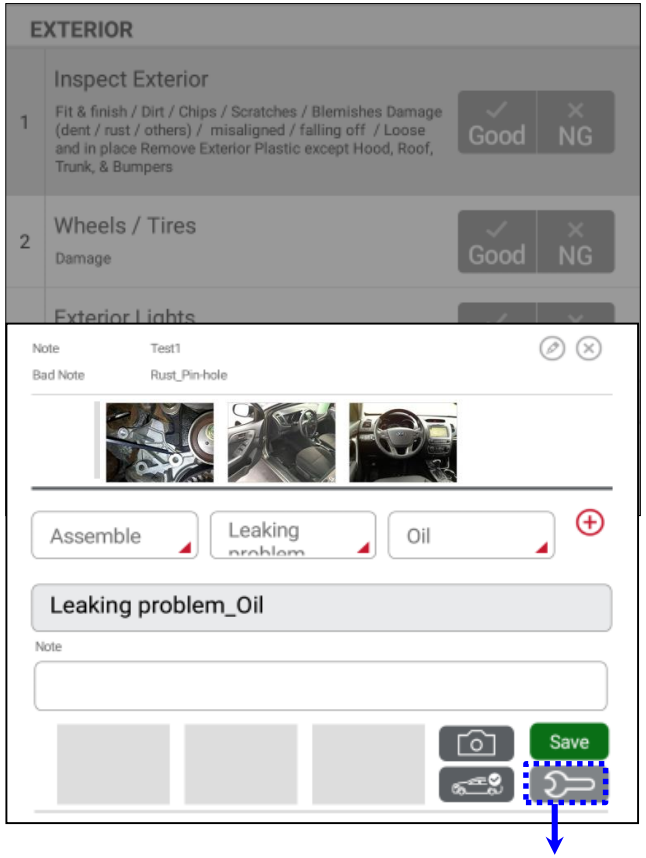
Clear



Inspection > Start > Check sheet (4)

※ Inspectors can also leave or edit repair note on GPMS website.

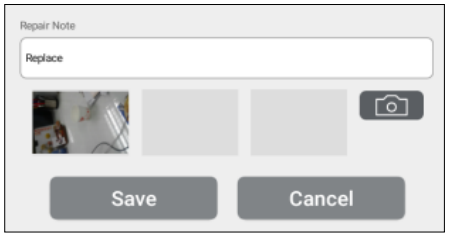
Check Sheet - 3



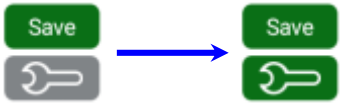
Repair button

1 **Repair Button**

- If inspectors click the repair button during PDI, inspectors can leave repair note and photos
- If some notes or photos are saved, the repaired button (Spanner icon) will be changed to green.

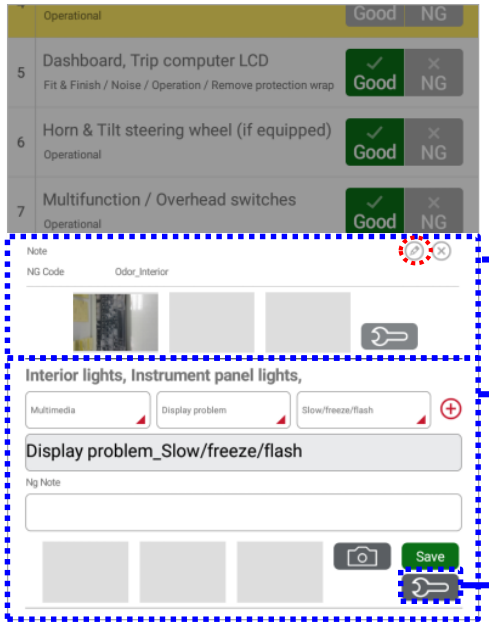


* Inspector can leave repair note and photos.



[Repair button color change]

2



1. When inspector leaves repair note for saved NG

- Click the edit button and click the repair button

2. When inspector leaves repair note during taking a note

- Click the repair button and leave repair note after selecting NG code, taking a note or pictures.

Repair button will be activated
if NG code, NG note or photo are exist

Inspection > Start > Check sheet (5)

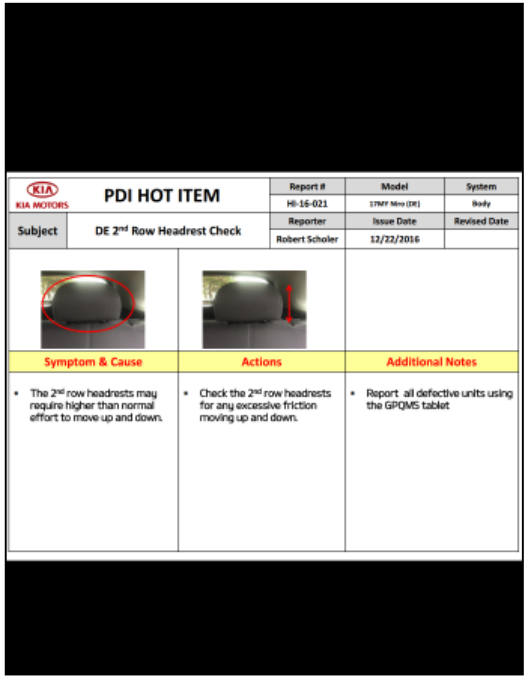
Check Sheet - 3

3

1 **PDF attachment file**

- If managers want to explain how to inspect the check list in detail by using PDF file, you can add the file on GPMS web site. (ex. KMA Port Hot item)

※ Please refer to the 'f. Sheet Editor_Check template' for setting.



2 **Good – Camera/Note**

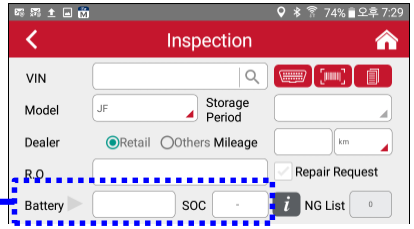
- If managers want workers to take a picture they inspected even thought the item is good, this icon will be added. And workers can take a picture or add some note.

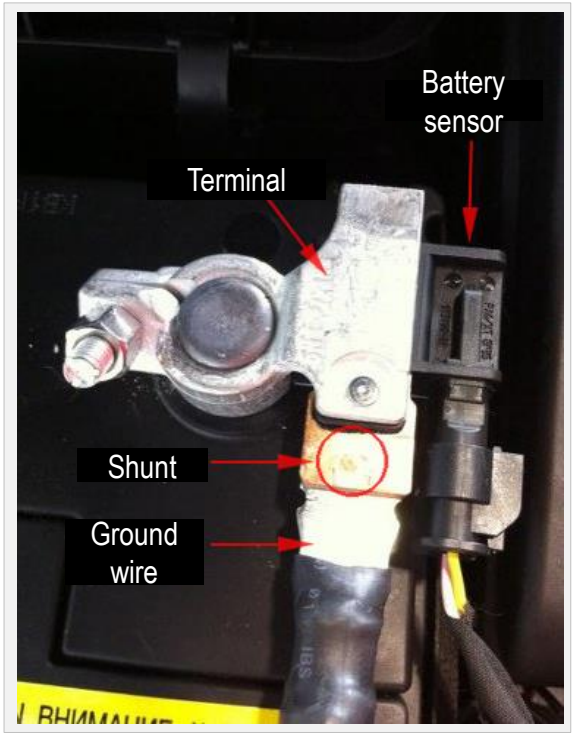
[ ] : Good – Camera/Note (Mandatory)
- Inspectors must take a picture.
- Inspectors can leave a note or they can skip it.

[ ]: Good – Camera/Note (Optional)
- Inspectors can take a picture or they can skip it.
- Inspectors can leave a note or they can skip it

※ Battery Voltage & SOC Check

Requirement for Voltage Check	Requirement for SOC Check
▪ Only Auxiliary Battery Voltage measured	▪ Vehicles only which are equipped with battery sensor. (Depends on vehicle Model/Trim, it will be different.) ※ Please refer to the image on the right side to verify how to check the battery sensor installation.



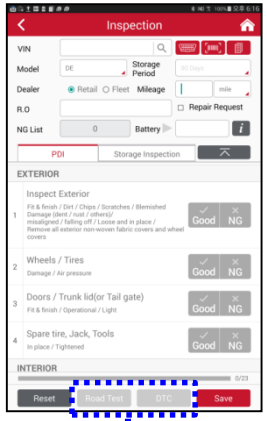


[Status Table for voltage and SOC check]

Value	Description	Detail	Remark
0~100	Properly measured	-	No matter internet is on or off. (When DB file is already downloaded) - DB will be automatically downloaded when a tablet PC recognizes the model at first time.
Checking	When battery sensor is inactive	State in unlearned after replacing battery. * Learning Condition : Stay in 4 hours at the moment of dark current is more than 200mA (After replacing battery)	
Not Supported	When there's no battery sensor		

Inspection > Start > DTC

Check Sheet

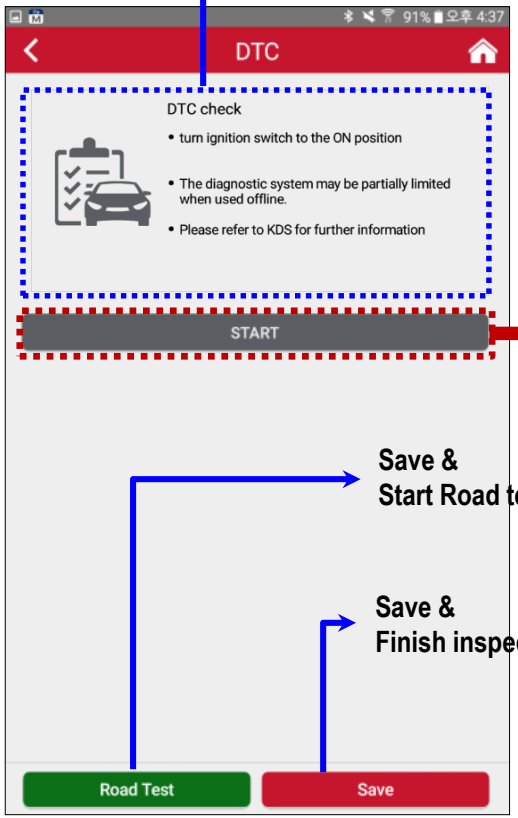


Road Test & DTC button
- Activated buttons if VCI is connected

* Inactivated buttons if VCI is not connected

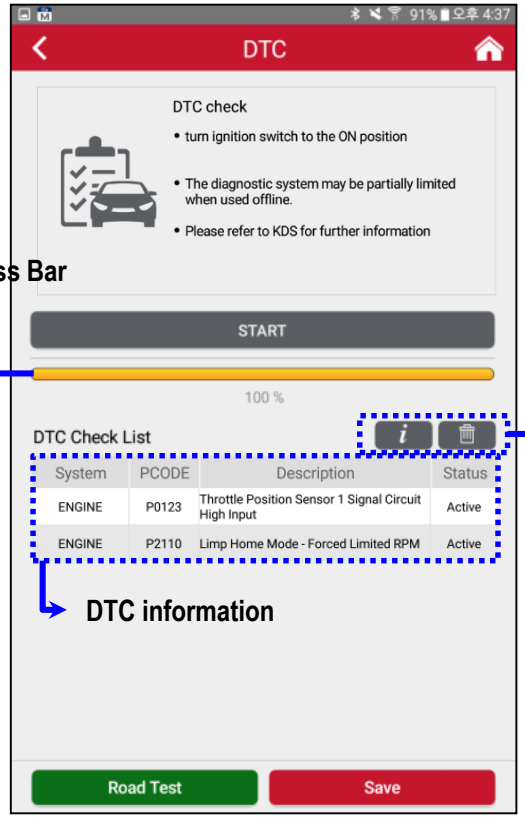
DTC

1

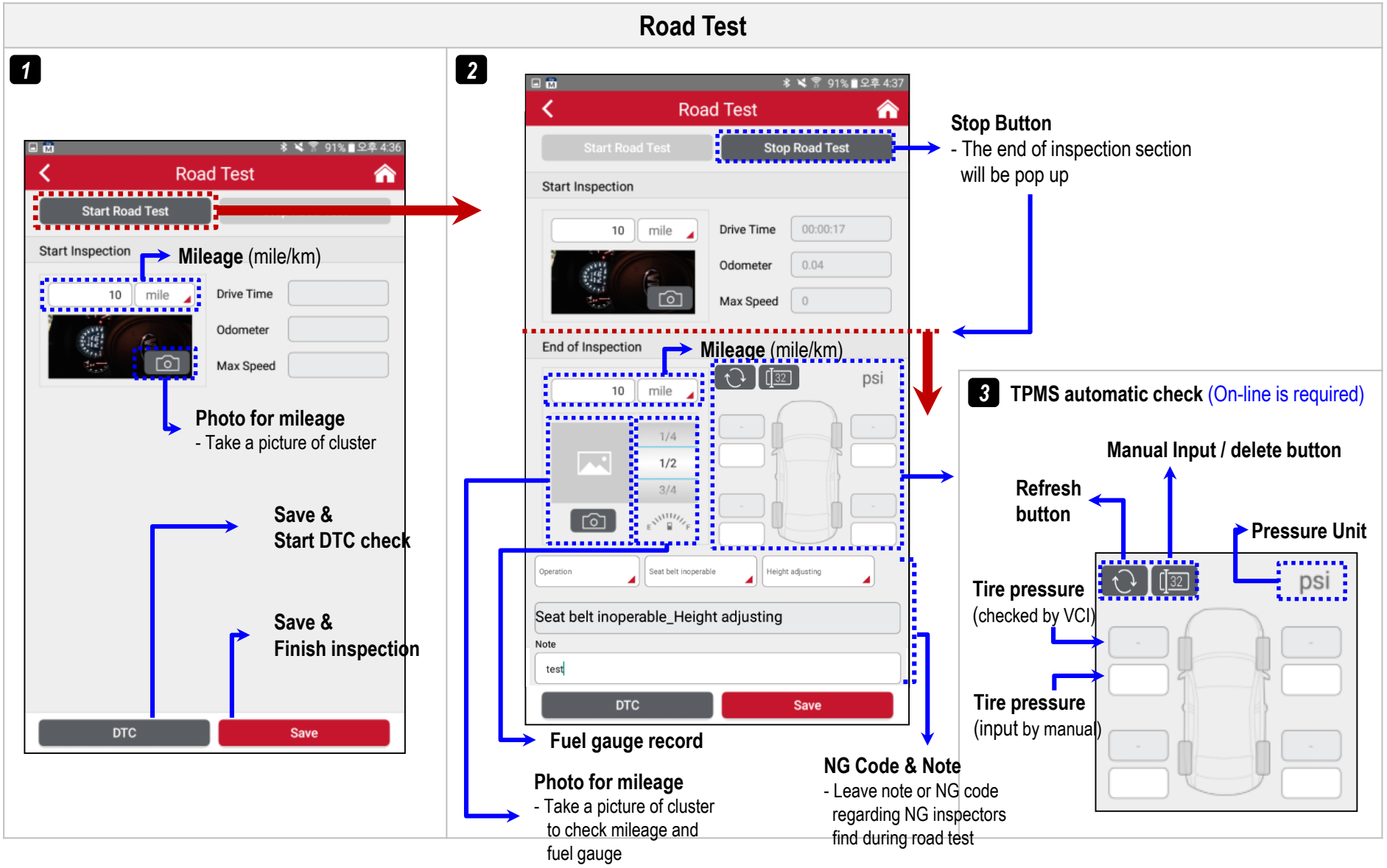


※ On-line : All system DTC can be checked
※ Off-line : Only DTC for engine & T/M can be checked
* EV cannot be checked on off-line

2



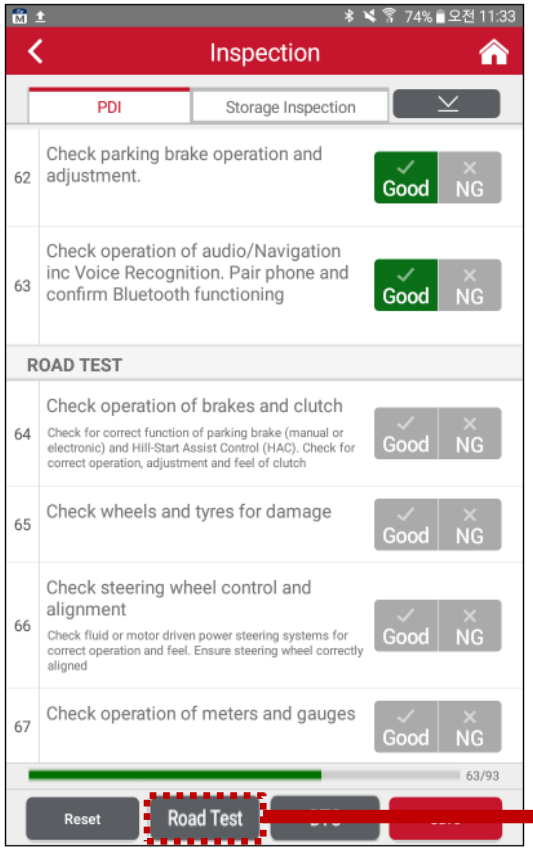
Inspection > Start > Road Test(1)



Inspection > Start > Road Test(2)

Check Sheet

1 Workers can start road test during manual Inspection if the check sheet includes 'Road Test' or 'After Road Test' category.



Road Test

2 Start road test and stop road test after driving.
And click the back button, then you can continue to check the list of 'road test' or list of 'after road test'.

Click back button after road test

2. GPMS (App)

c. Inspection

* The excel form can be downloaded on work list page on GPMS web

Work List_1

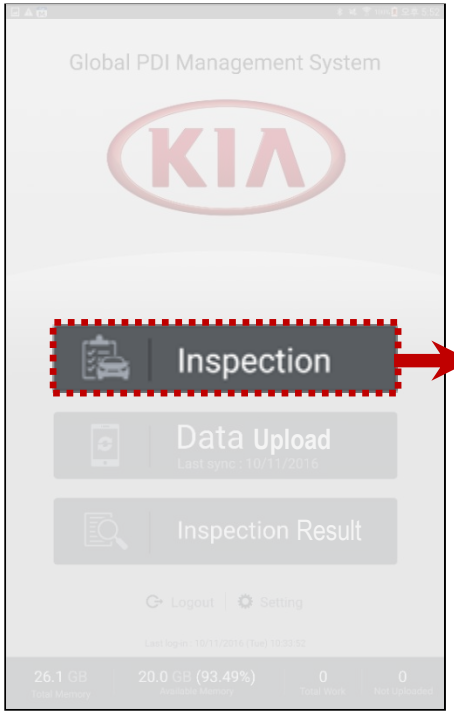
Inspection > Work List

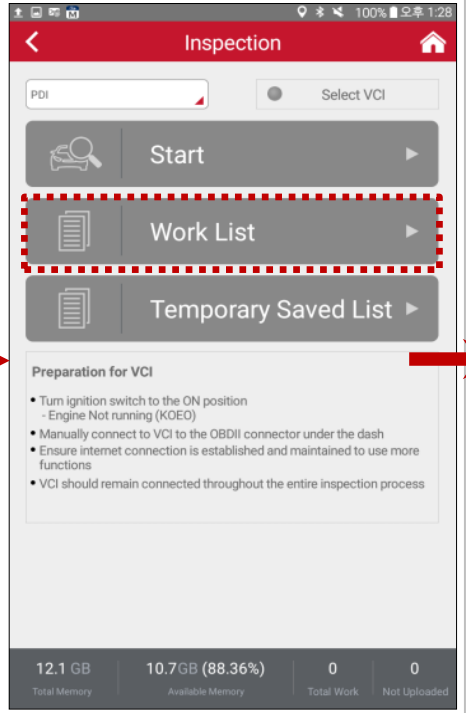
※ To use 'PDI work list', managers must upload work list on GPMS web (work list page) by using *excel form

※ If Subs./Dist. system is connected with KMC ERP, storage vehicle inspection list will be downloaded without any upload.
If the system is not connected with KMC ERP, upload work list on GPMS web the same with PDI work list.

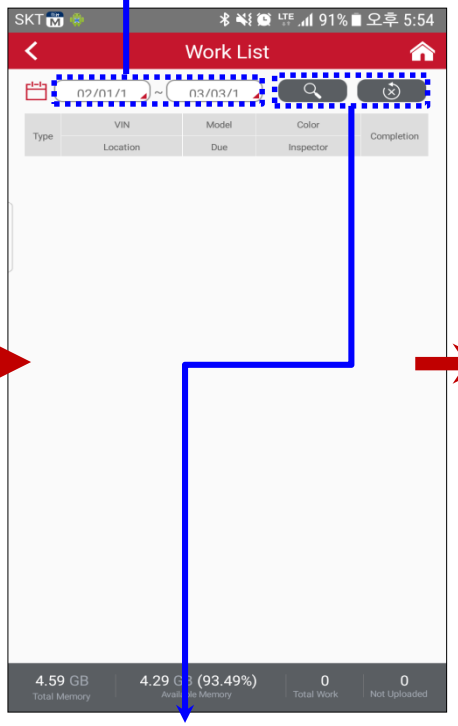
Inspection (Work List)

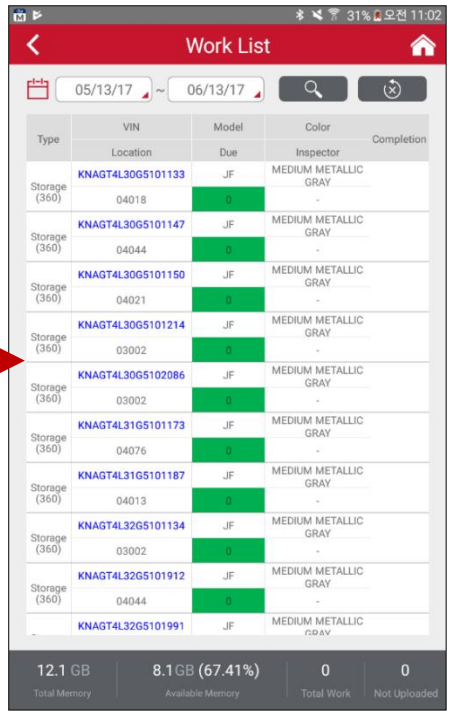
Work List





Date Selection





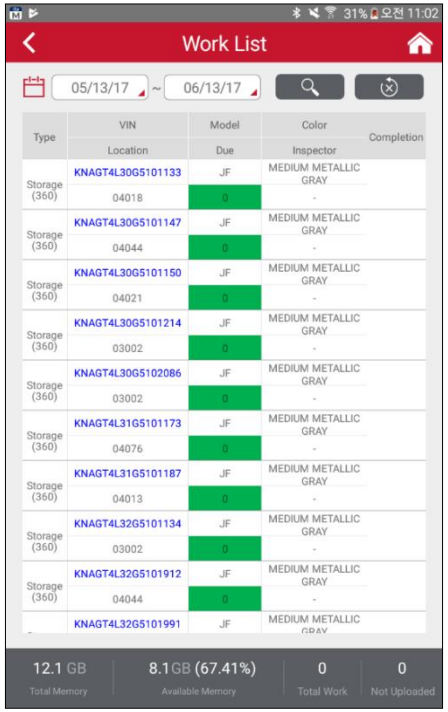
Download(Search) & Reset Button

- Download 'Work List' uploaded by manager from server
  ※ If Subs./Dist. system is connected with KMC ERP,
  storage vehicle inspection list will be downloaded without any upload.

Inspection > Work List

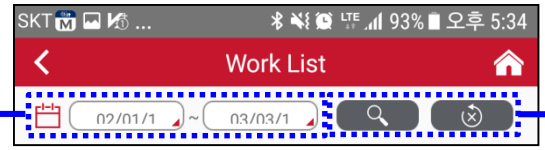
※ Option : The option information is available if workers upload work list on GPMS web site

Work List



Detail

1



Date Selection ← → **Download(Search) & Reset Button**

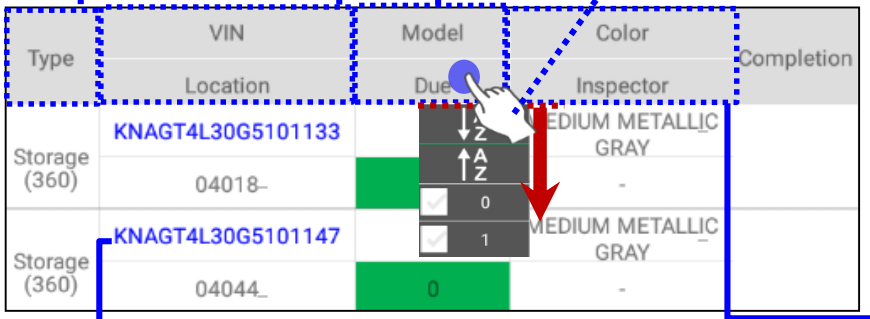
2

Inspection Type (Filter applied)
- PDI
- Storage vehicle inspection

· **VIN**
· **Location** (Option)

Click header
- Will pop up filter

· **Model** (Filter applied)
· **Due**
- Target date to inspect
- Target date is calculated based on work list managers uploaded or system information



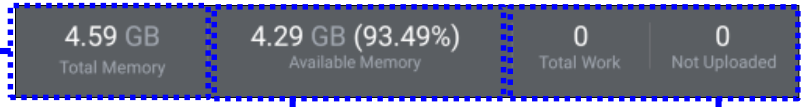
	- Window	Target Date (Today)	+ Window	Over due
Color				
90 period inspection	-10	0	10	11~
30 period inspection	-5		5	6~
Ex) 90 period Insp.	80~89	90	91~100	101~

· **Color**
- Color will be pop up to help workers to easily find vehicles

· **Inspector** (Filter applied, Option)
- Manager can designate inspector when upload 'Work List' on website

VIN
- This page will be directly changed to check sheet if it is clicked

3



Total memory of device

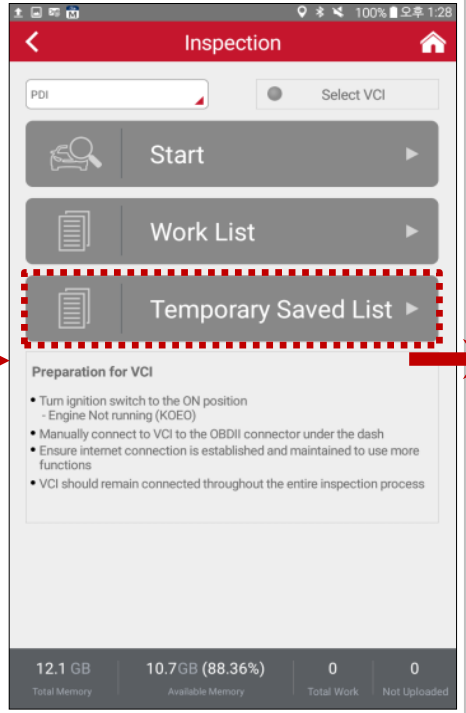
Available memory of device (Percentage)

Total saved work / Not uploaded work

Inspection > Temporary Saved List

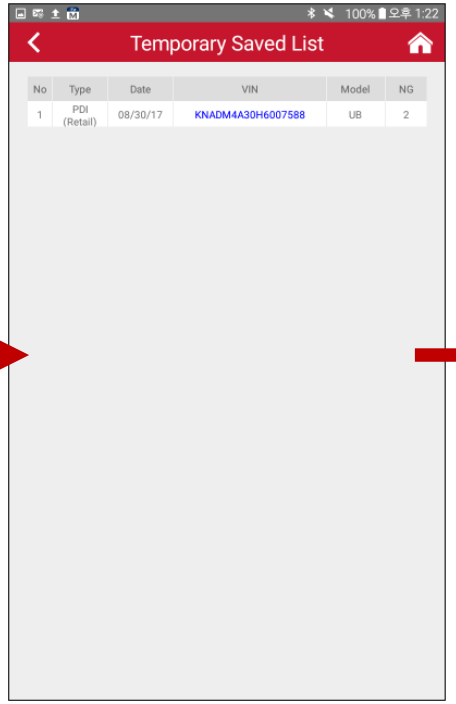
※ To keep working temporary saved list, you must use a same device which you used to save the work.
※ Battery voltage will not be saved in temporary saved list. So, VCI must be used to check battery again.

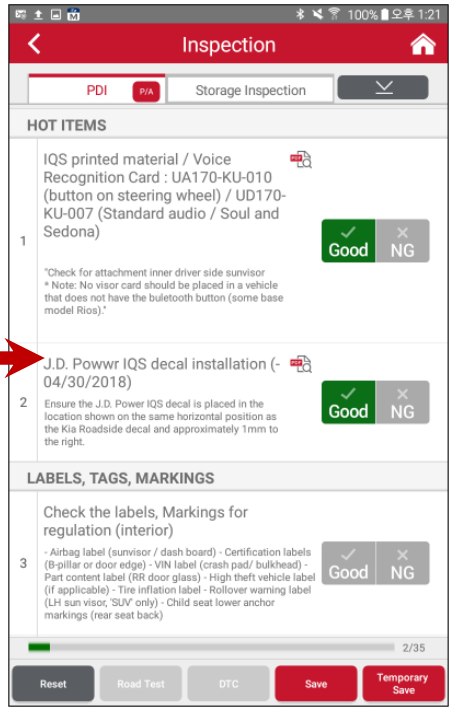
Inspection (Temporary Saved List)



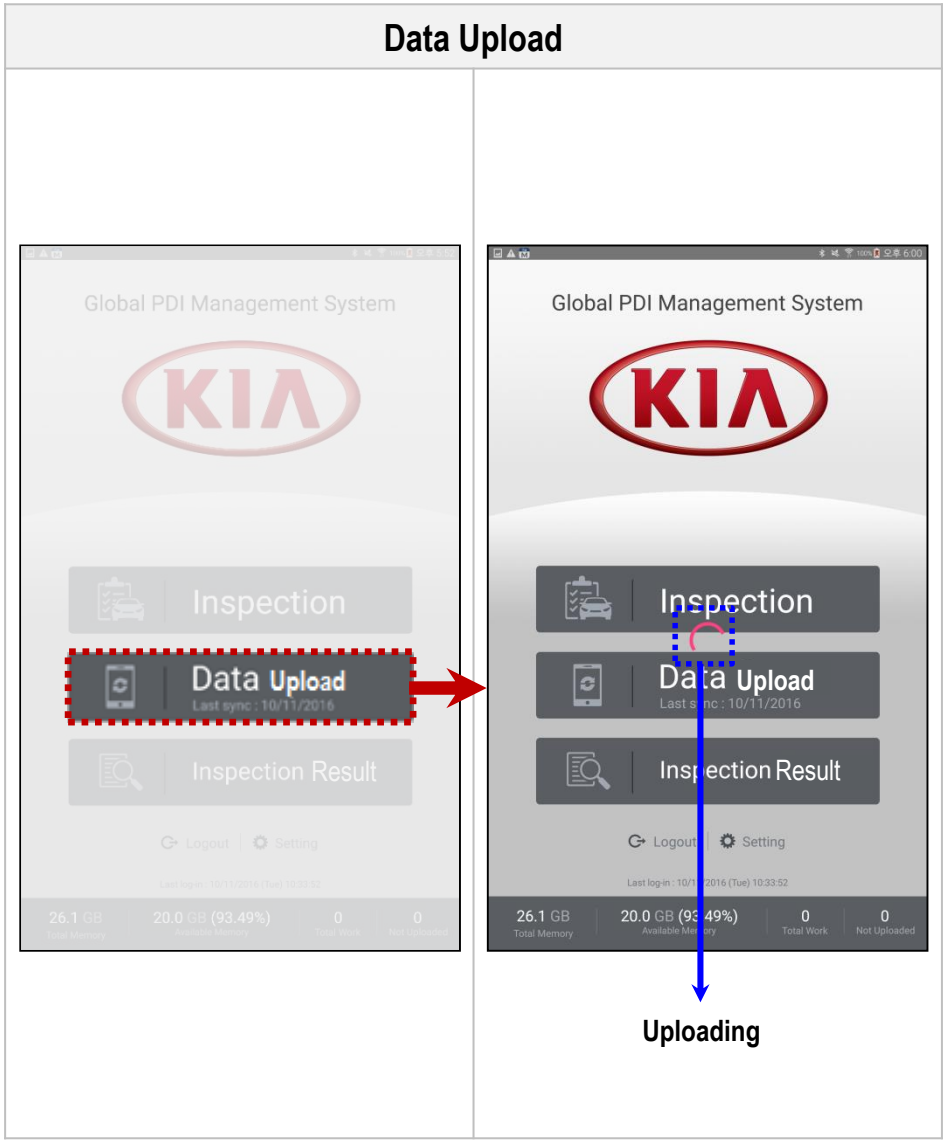
Keep working

1 **Temporary saved list**
You can keep working if you click a VIN in temporary saved list.





Data Upload

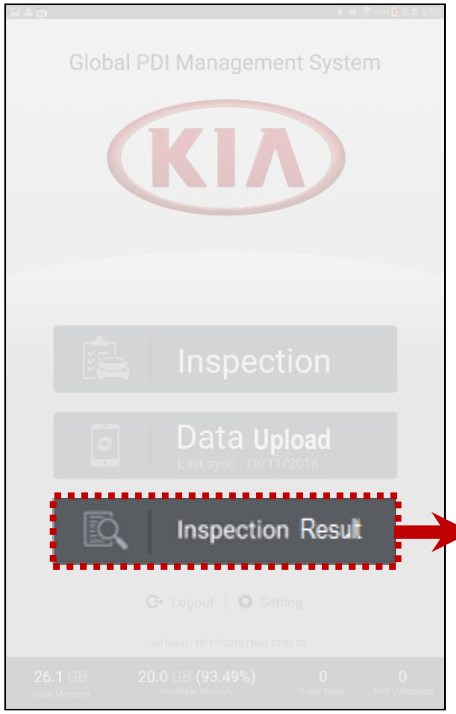


※ **Saved inspection result will be uploaded at once when the 'Data upload' button clicked**
(Wi-fi connection is required)

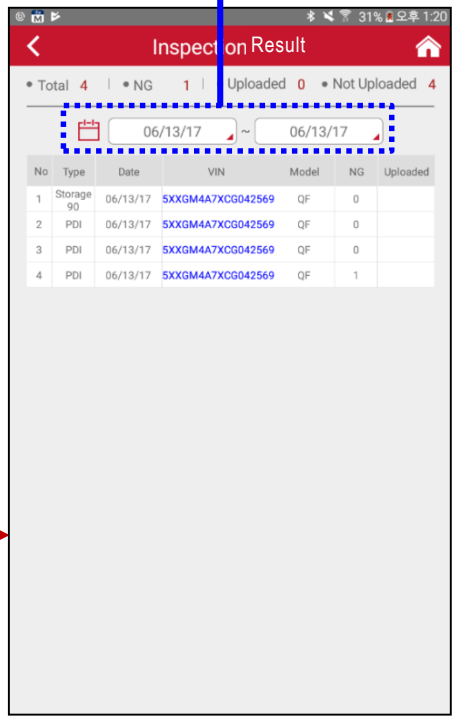
Inspection Result

※ The display may vary slightly depending on the screen resolution.
※ This inspection result will be stored for two weeks (It will be deleted after two weeks).
※ After new update, inspection result will be initialized.

Inspection Result



Date Selection

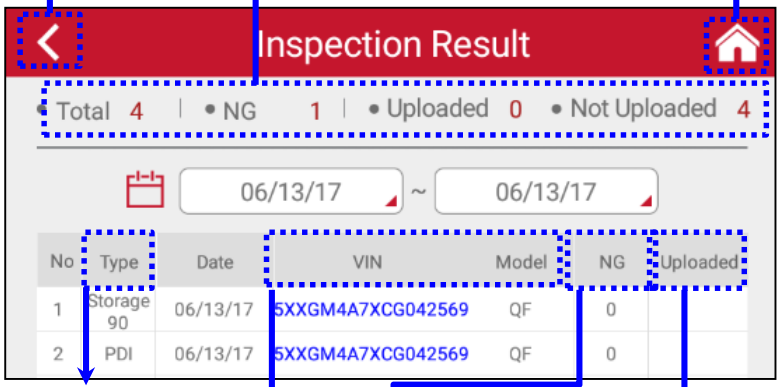


Detail

- **Total** - The number of saved inspection result
- **NG** - The number of NG vehicles
- **Uploaded** - The number of uploaded inspection results
- **Not Uploaded** - The number of **Not** uploaded

Back button

Home button



Inspection Type (Filter applied)
- PDI
- Storage vehicle inspection

NG
- NG list will be displayed if the number of NG is clicked

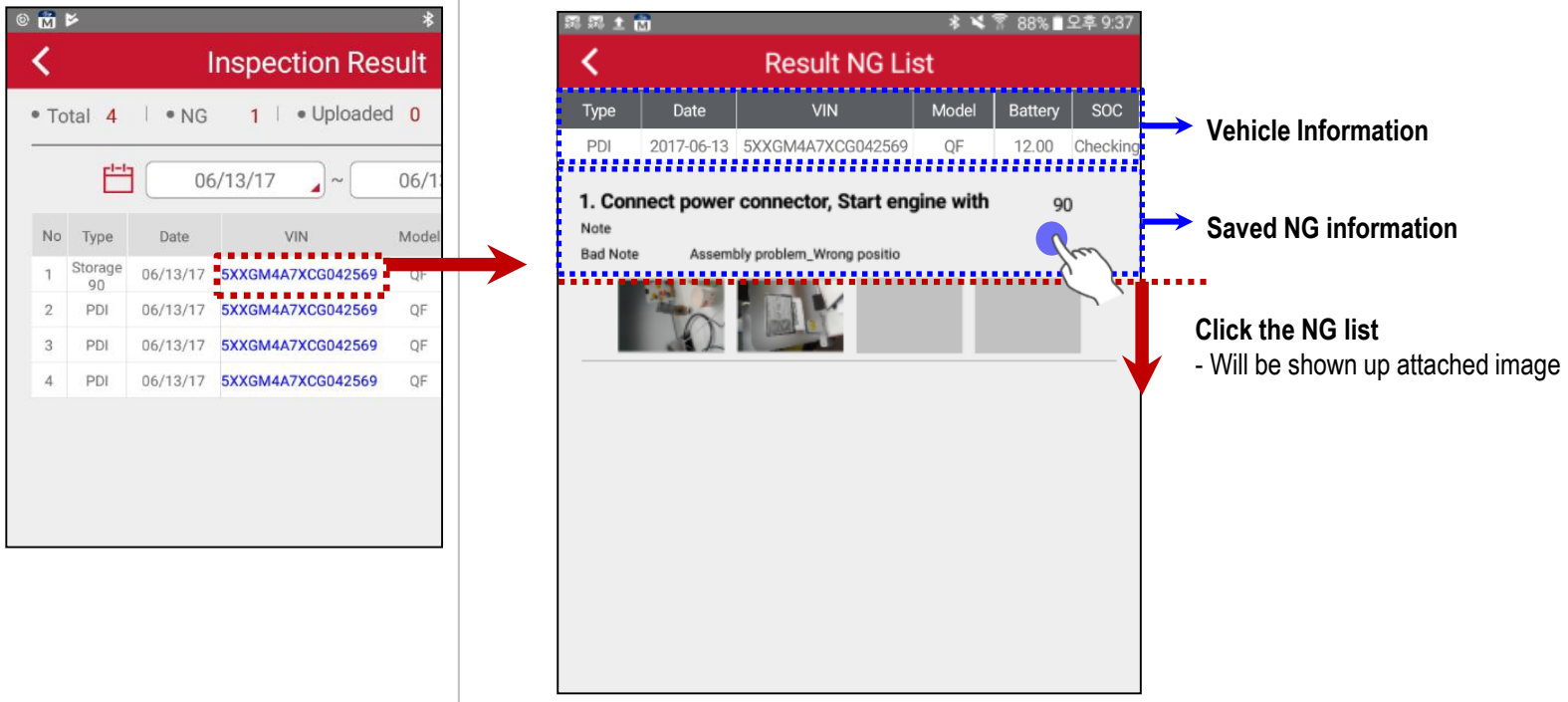
VIN
- This page will be directly changed to check sheet, when it is clicked

Model
- Vehicle name

Uploaded (Filter applied)
- It will show if the result is uploaded (Background color will be green if the result is uploaded)

Inspection Result > Inspection Result Detail

Inspection Result Detail



※ GPMS (App) off-line usage

Off-line usage

Procedure

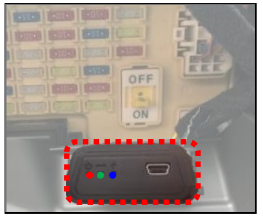
1 Log-in online first.
(Off-line mode will last for 72 hours after online log-in)

2 Download work list in 'Work list menu' if it is needed.
(You can skip this if you don't need it)

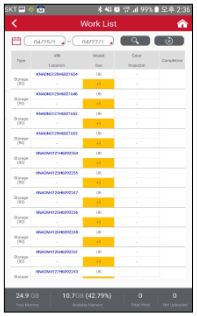
3 Go to a stock yard to inspect vehicle.
(It should be off-line to use off-line mode)

[Stock yard]

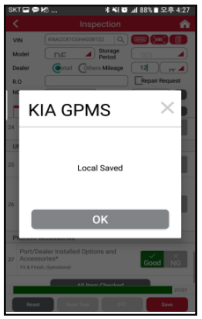
4 Connect VCI to OBD to start inspection.



4 Click a VIN you want to inspect .
(You can skip this if you don't need it)

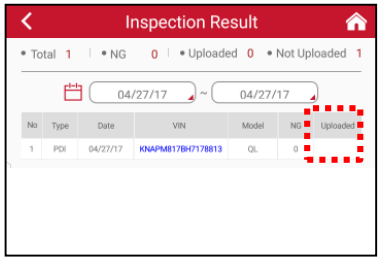


5 Start inspection and save the work.
(The inspection result will be saved in the device)



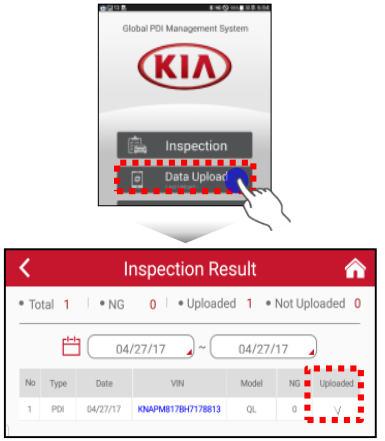
[Local saved pop up]

6 You can verify the inspection vehicle list on 'Inspection Result'.



[No check in uploaded box]

7 You can upload data using 'Data Upload' in network zone.



[Check in uploaded box]

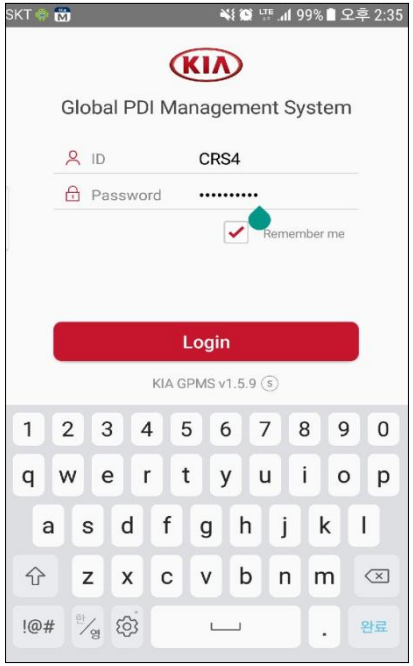
※ GPMS (App) off-line usage

Off-line usage for work list

※ Work list will be downloaded based on KMC ERP so the data consistency is not correct compared to the data of each country
(KMC will improve the data consistency)

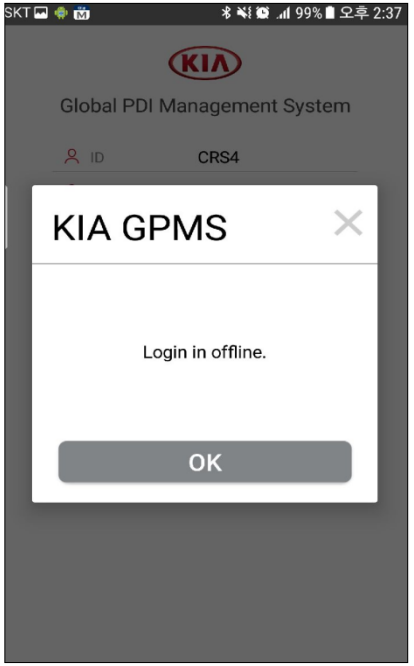
Procedure

1 Try to log-in on GPMS App online first.
* Used ID is Dammam Port user in Saudi

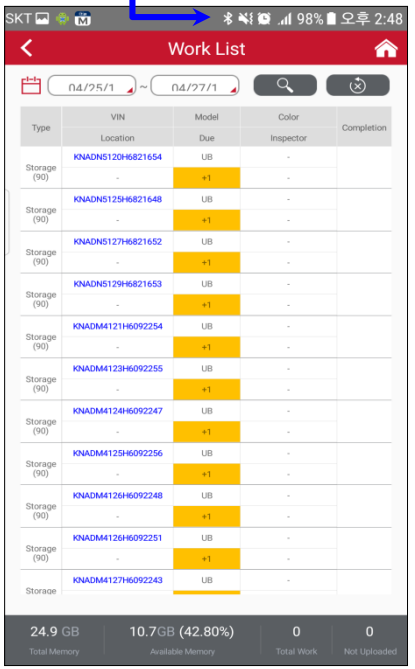


2 Download the work list for storage vehicle inspection (not PDI) in 'Work list' menu.
1) Select date range.
2) Click the inquiry button.
※ Detail explanation about the work list function is on 'd. Inspection Work List_2'

3 If you log-out the app and the device is off-line, you can log-in again as off-line mode.
※ Off-line mode will last for 12 hours after online log-in.



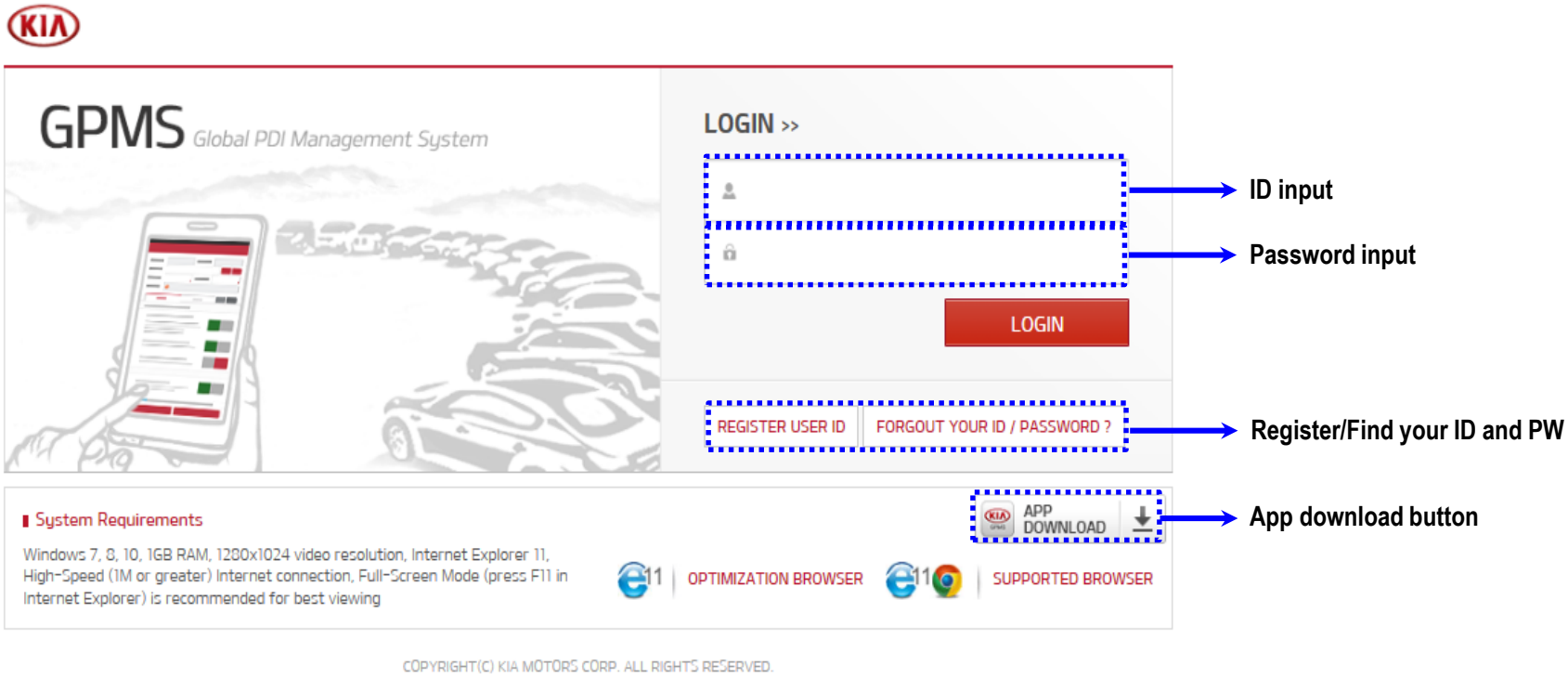
4 You can check the downloaded work list again in 'Work list' menu. (Off-line mode)
· Log out → Off line → log in again
☞ Downloaded work list will be shown
· Log out → On line → log in again
☞ Need to download work list again



3. GPMS (Web)

Log-in

◆ Web Address : http://gpms.kia.com



3. GPMS (Web)

b. Main Feature

Main (1)

Management menu
- Stock Overview
- Work List
- Storage vehicle due list
- Inspection Vehicle List
- Defect Vehicle List
- Daily Inspection Total
- Daily Defect Total

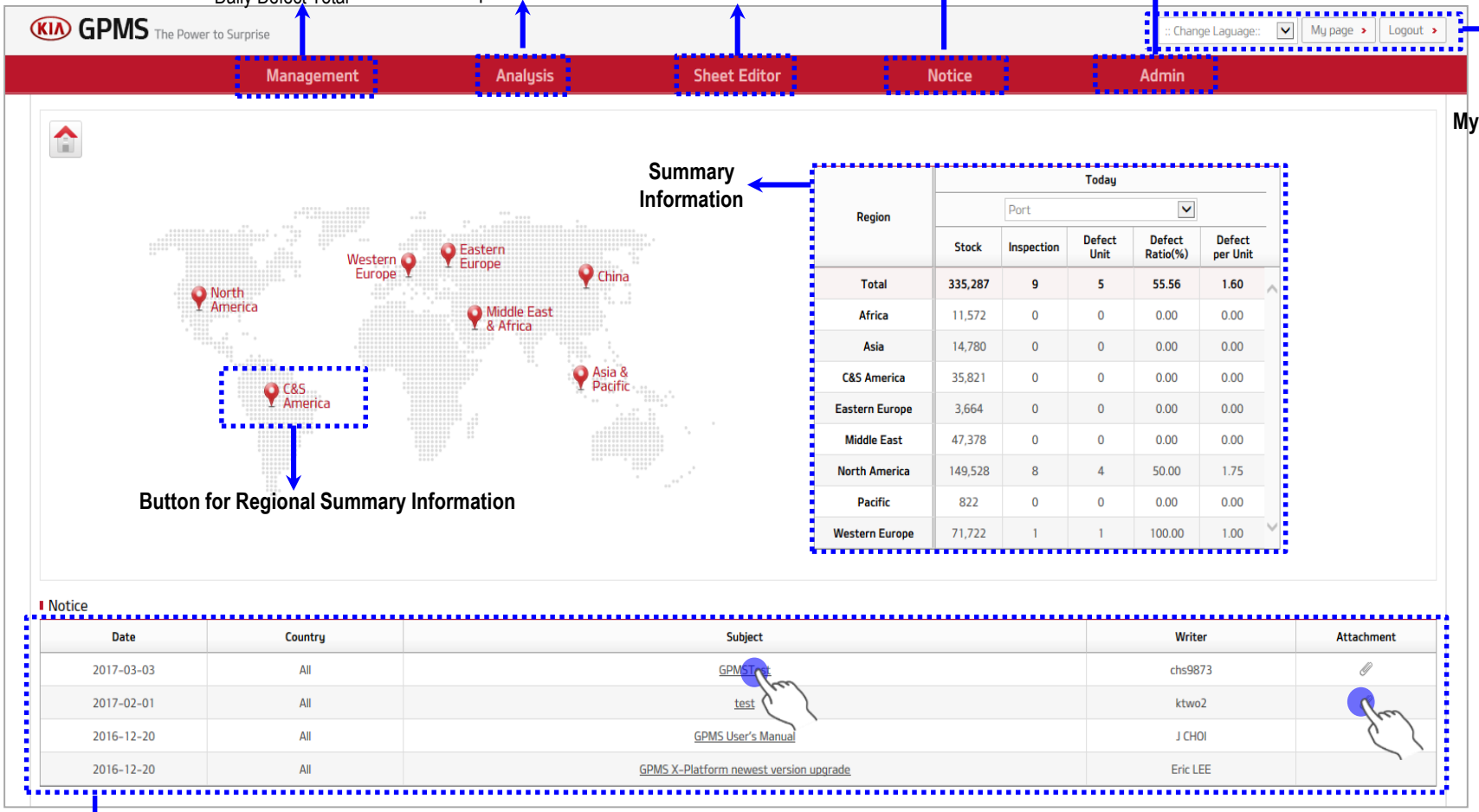
Analysis menu
- Overall Analysis
- Inspection Result
- Top Claim

Sheet Editor menu
- Sheet Preview
- Sheet Template
- Category Template
- Check Template

Notice menu
- Notice

Admin menu
- User/Device/ Nation/Model

※ Excel conversion function for each menu will be added step by step.
※ Print can be available after excel conversion.



Summary Information

Button for Regional Summary Information

My page / Logout

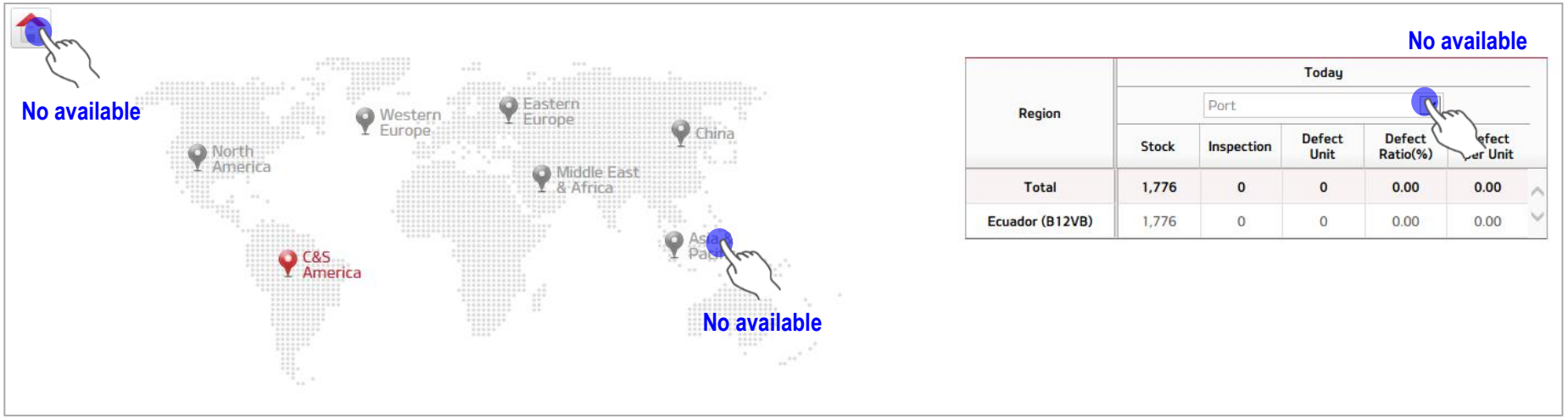
Notice
- Date/Country(Region)/Subject/Writer/Attachment will be displayed.
  (Detail information will be displayed when the subject is clicked)

Main (2)

※ What you see on main page depends on your region & ID authority

Main (3)

※ What you see on main page depends on your region & ID authority



※ ID : C&S America / Ecuador / Port / Admin

- This ID can only see the port information of Ecuador
- Distributor can see port/dealer information
- Regional HQ can see their regional port/dealer information

Main - Summary Information

Summary Information

1

Area
- Port/ Dealer

Today

Port
Dealer

Region	Stock	Inspection	Defect Unit	Defect Ratio(%)	Defect per Unit
Total	335,287	8	5	62.50	1.60
Africa	11,572	0	0	0.00	0.00
Asia	14,780	0	0	0.00	0.00
C&S America	35,821	0	0	0.00	0.00
Eastern Europe	3,664	0	0	0.00	0.00
Middle East	47,378	0	0	0.00	0.00
North America	149,528	7	4	57.14	1.75
Pacific	822	0	0	0.00	0.00
Western Europe	71,722	1	1	100.00	1.00

Region & Total Classification

Stock / Inspection / Defect Unit / Defective Ratio / Defect per Unit

Regional Summary Information

2

※ Regional summary information which including detail information of each distributor if the button for regional summary information is clicked.

Region Classification

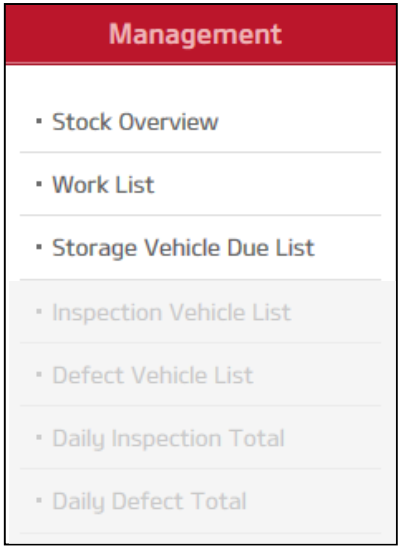
Today

Port

Region	Inventory	Inspected	Defect	Defect Ratio(%)
Canada (B06VA)	13,284	0	0	0.00
U.S.A. (B28VA)	187,981	1	1	100.00
Total	201,265	1	1	100.00

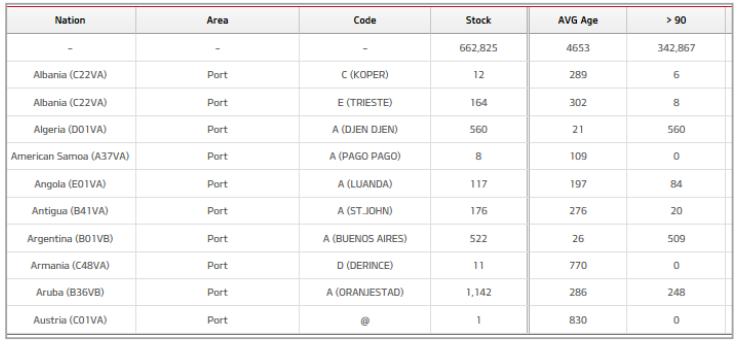
Management (1)

Management	Detail



1 Stock Overview

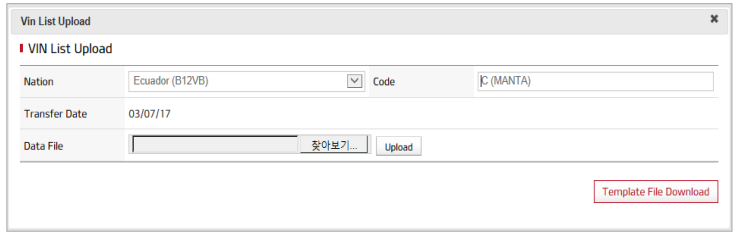
- It shows overall vehicle inventory about stock, average age and the number of inventory classified by age.
  * Port Stock – All countries can check the information
  * Dealer Stock – Subsidiaries can check the information
  * The information is connected with KMC ERP system



Nation	Area	Code	Stock	AVG Age	> 90
-	-	-	662,825	4653	342,867
Albania (C22VA)	Port	C (KOPER)	12	289	6
Albania (C22VA)	Port	E (TRIESTE)	164	302	8
Algeria (D01VA)	Port	A (DJEN DJEN)	560	21	560
American Samoa (A37VA)	Port	A (PAGO PAGO)	8	109	0
Angola (E01VA)	Port	A (LUANDA)	117	197	84
Antigua (B41VA)	Port	A (ST.JOHN)	176	276	20
Argentina (B01VB)	Port	A (BUENOS AIRES)	522	26	509
Armania (C48VA)	Port	D (DERINCE)	11	770	0
Aruba (B36VB)	Port	A (ORANJESTAD)	1,142	286	248
Austria (C01VA)	Port	@	1	830	0

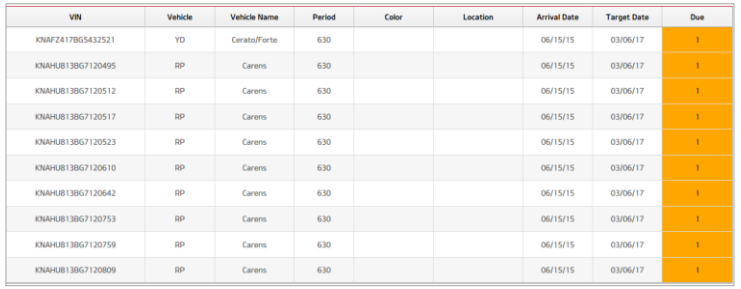
2 Work List

- Managers can upload work list by excel file on this page and workers can download the list on 'work list' menu of GPMS app.
  * Vehicles which has arrival date information in KMC ERP will be shown on 'work list' menu of GPMS app without any upload.



3 Storage Vehicle Due List

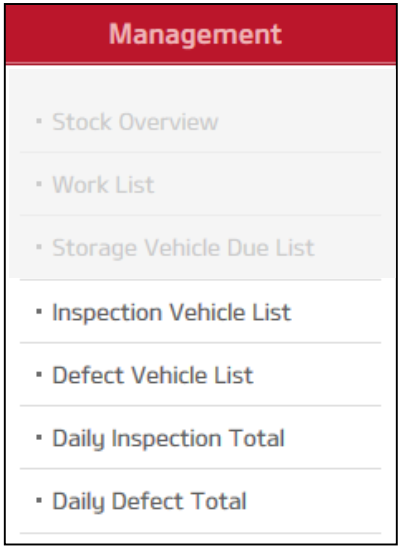
- Users can download 'Storage Vehicle Due List' by excel file
  * This page will show the data based on vehicles which has arrival date information in KMC ERP



VIN	Vehicle	Vehicle Name	Period	Color	Location	Arrival Date	Target Date	Due
KNAF2417BG5432521	YD	Cerato/Forte	630			06/15/15	03/06/17	1
KNAHU813BG7120495	RP	Carens	630			06/15/15	03/06/17	1
KNAHU813BG7120512	RP	Carens	630			06/15/15	03/06/17	1
KNAHU813BG7120517	RP	Carens	630			06/15/15	03/06/17	1
KNAHU813BG7120523	RP	Carens	630			06/15/15	03/06/17	1
KNAHU813BG7120610	RP	Carens	630			06/15/15	03/06/17	1
KNAHU813BG7120642	RP	Carens	630			06/15/15	03/06/17	1
KNAHU813BG7120753	RP	Carens	630			06/15/15	03/06/17	1
KNAHU813BG7120759	RP	Carens	630			06/15/15	03/06/17	1
KNAHU813BG7120809	RP	Carens	630			06/15/15	03/06/17	1

Management (2)

Management	Detail



4 Inspection Vehicle List

- It shows detail information for all inspected VIN.

Region	Nation	Area	Code	Inspcetion Type	Period	VIN	Vehicle	Vehicle Name
Western Europe	U.K (C21VA)	Port	D (KOPER)	PDI	-	U5YPK813NHL326322	QLe	Sportage
Middle East	Iraq (D05VG)	Port	-	Storage	90	KNCWJ2768H7155691	PU	K2000/2700/3000/3600
Middle East	Iraq (D05VG)	Port	-	Storage	90	KNCWJ2769H7160933	PU	K2000/2700/3000/3600
Middle East	Iraq (D05VG)	Port	-	Storage	90	KNCWJ2766H7155706	PU	K2000/2700/3000/3600
Middle East	Iraq (D05VG)	Port	-	Storage	90	KNCWJ2762H7155704	PU	K2000/2700/3000/3600
Middle East	Iraq (D05VG)	Port	-	Storage	90	KNCWJ2760H7157760	PU	K2000/2700/3000/3600
Middle East	Iraq (D05VG)	Port	-	Storage	90	KNCWJ2769H7156526	PU	K2000/2700/3000/3600
Middle East	Iraq (D05VG)	Port	-	Storage	90	KNCWJ2766H7160534	PU	K2000/2700/3000/3600
Middle East	Iraq (D05VG)	Port	-	Storage	90	KNCWJ2761H7153359	PU	K2000/2700/3000/3600
Middle East	Iraq (D05VG)	Port	-	Storage	90	KNCWJ2769H7160530	PU	K2000/2700/3000/3600

5 Defect Vehicle List

- It shows detail information for only defect VIN.

Region	Nation	Area	Code	Inspcetion Type	Period	VIN	Vehicle	Vehicle Name
Pacific	Australia (A02VE)	Port	F (SYDNEY)	PDI	-	KNAFK417MJ5732574	YD	Cerato/Forte
Pacific	Australia (A02VE)	Port	F (SYDNEY)	PDI	-	KNAFK517MH5692290	YD	Cerato/Forte
Pacific	Australia (A02VE)	Port	F (SYDNEY)	PDI	-	KNAFK417MJ5725647	YD	Cerato/Forte
Middle East	Saudi Arabia (D15VK)	Port	B (DAMMAM)	PDI	-	KNAGV4129G5048825	JF	Optima
Middle East	Saudi Arabia (D15VK)	Port	B (DAMMAM)	PDI	-	KNAPH8142G5099227	UM	Sorento
Middle East	Kuwait (D08VA)	Port	-	Storage	90	KNAKM811XH5163737	HM	Mohave/Borrego
Middle East	Kuwait (D08VA)	Port	-	Storage	90	KNAKM8115H5150362	HM	Mohave/Borrego

6 Daily Inspection Total

- It shows total number of inspected VIN.
  The detail information will be classified by region, nation or port/dealer.

Date	Model		North America	Pacific	Africa	Asia	C&S America	Middle East
			B1	A2	D2	A1	B2	D1
03/2017	K900, Quoris	KH	9	0	0	0	0	0
	Niro	DE HEV	1	0	0	0	0	0
	Rio	UB	0	1	0	0	0	0
	Sub		10	1	0	0	0	0
04/2017	Cerato/Forte	YD	0	0	1	0	0	8
	Picanto	JA	0	0	1	0	0	0
	Picanto	TA	0	0	81	0	0	2
	Rio	UB	4	1	1	0	1	4
	Rio	YB	0	3	1	0	0	0
	Soul	PS	17	0	0	1	0	3
	-	-	0	0	0	0	0	2
	Cadenza	YG	12	0	0	0	0	4
	Carnival/Sedona	YP	3	0	0	0	0	16
	Optima	JF	2	0	0	0	0	8
	Sorento	UM	0	0	0	0	0	1

7 Daily Defect Total

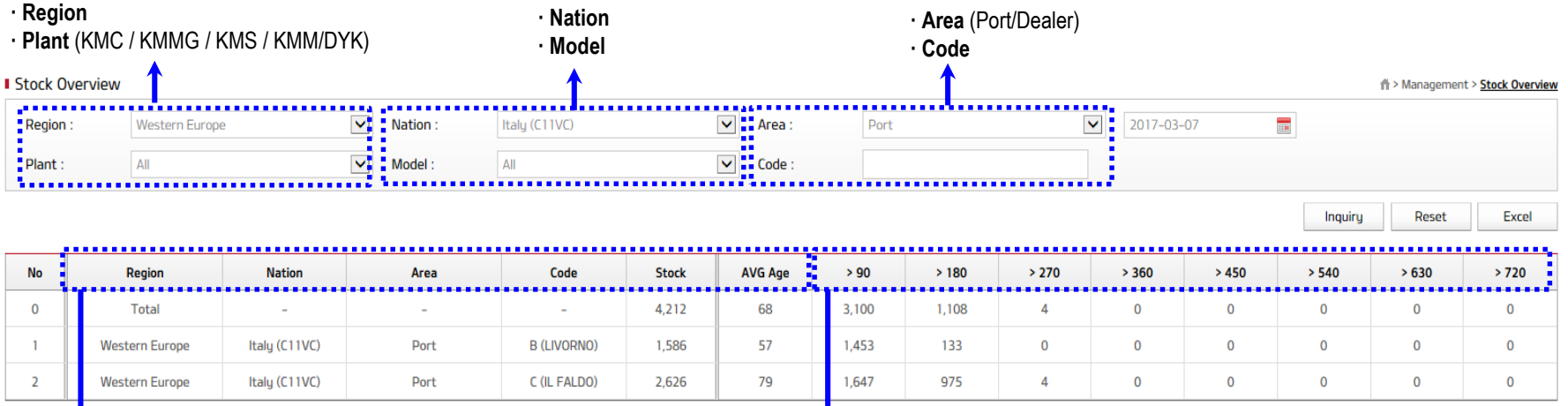
- It shows total number of defect VIN.
  The detail information will be classified by region, nation or port/dealer.

Date	Model		Defect	North America	Africa	Asia	Middle East	Pacific
				B1	D2	A1	D1	A2
03/2017	K900, Quoris	KH	Defect Vehicle	2	0	0	0	0
			Defect Count	2	0	0	0	0
	Sub		Defect Vehicle	2	0	0	0	0
			Defect Count	2	0	0	0	0
	Cerato/Forte	YD	Defect Vehicle	0	1	0	0	0
			Defect Count	0	1	0	0	0
	Picanto	JA	Defect Vehicle	0	1	0	0	0
			Defect Count	0	1	0	0	0
	Picanto	TA	Defect Vehicle	0	74	0	1	0
			Defect Count	0	76	0	1	0
	Rio	UB	Defect Vehicle	0	1	0	0	1
			Defect Count	0	1	0	0	2
	Soul	PS	Defect Vehicle	0	0	1	0	0
			Defect Count	0	0	1	0	0

Management – Stock Overview

※ KMC will keep improving data consistency of stock overview.

※ It is not easy to reconcile all information with one criteria, since all national criteria for calculating inventory are different.



No	Region	Nation	Area	Code	Stock	AVG Age	> 90	> 180	> 270	> 360	> 450	> 540	> 630	> 720
0	Total	-	-	-	4,212	68	3,100	1,108	4	0	0	0	0	0
1	Western Europe	Italy (C11VC)	Port	B (LIVORNO)	1,586	57	1,453	133	0	0	0	0	0	0
2	Western Europe	Italy (C11VC)	Port	C (IL FALDO)	2,626	79	1,647	975	4	0	0	0	0	0

※ You can see the results when you click the inquiry after setting the search conditions

Region / Nation / Area / Code / Stock / Average age

The number of inventory classified by each age

Ex 1 > 90 : 0 ~ 90

Ex 2 > 180 : 91 ~ 180

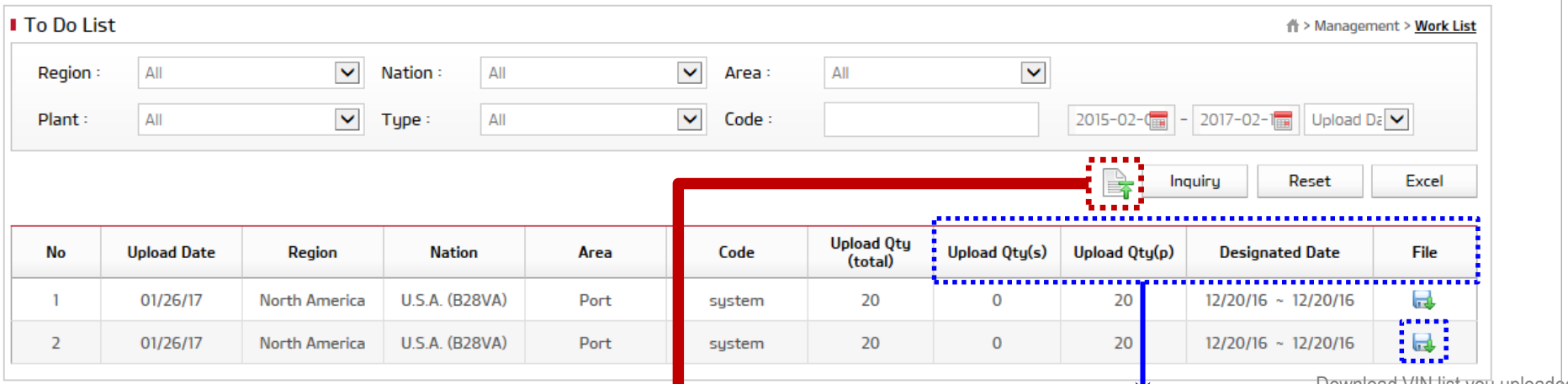
Ex 3 > 270 : 181 ~ 270

Management – Work List

※ Managers can upload work list by excel file on this page and workers can download the list on 'work list' menu of GPMS app.

* Vehicles which has arrival date information in KMC ERP will be shown on 'work list' menu of GPMS app without any upload.
* If a work list uploaded even though KMC ERP supports vehicle information, the information will be shown on 'work list' menu of GPMS app

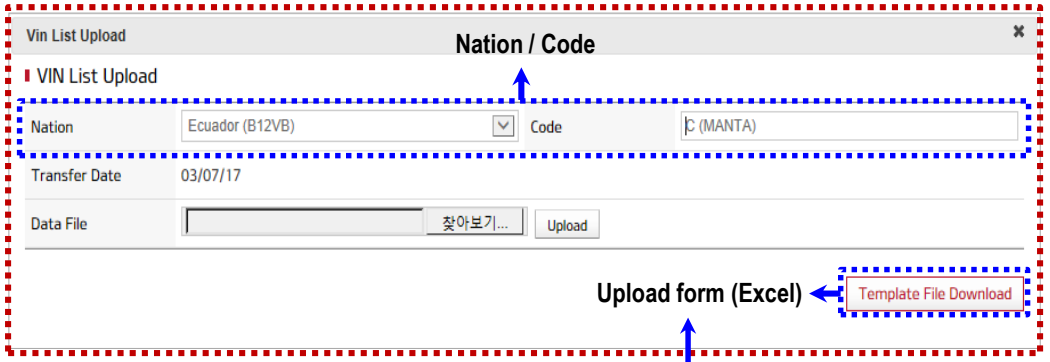
└ Replicated VIN information will be automatically deleted

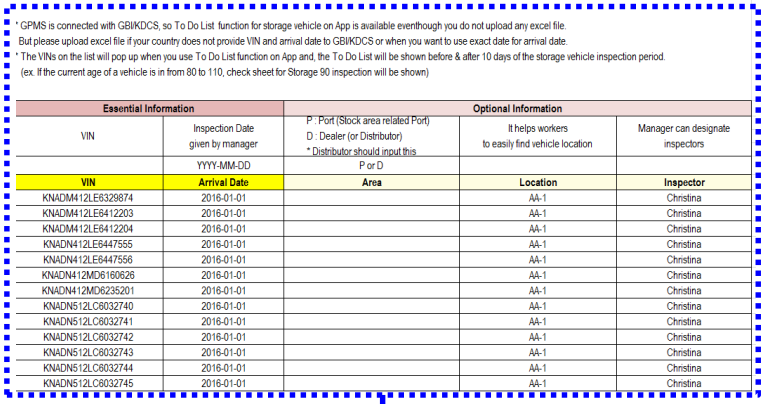


Download VIN list you uploaded

Uploaded quantity info.
(s): Storage / (p):PDI

File upload for VIN list





* GPMS is connected with GBIKDCS, so To Do List function for storage vehicle on App is available eventhough you do not upload any excel file.
But please upload excel file if your country does not provide VIN and arrival date to GBIKDCS or when you want to use exact date for arrival date.
* The VINs on the list will pop up when you use To Do List function on App and, the To Do List will be shown before & after 10 days of the storage vehicle inspection period.
(ex. If the current age of a vehicle is in from 80 to 110, check sheet for Storage 90 inspection will be shown)

Essential Information		Optional Information		
VIN	Inspection Date given by manager	P : Port (Stock area related Port) D : Dealer (or Distributor) * Distributor should input this	It helps workers to easily find vehicle location	Manager can designate inspectors
	YYYY-MM-DD	P or D		
VIN	**Arrival Date**	**Area**	**Location**	**Inspector**
KNADM412LE6329874	2016-01-01		AA-1	Christina
KNADM412LE6412203	2016-01-01		AA-1	Christina
KNADM412LE6412204	2016-01-01		AA-1	Christina
KNADN412LE6447555	2016-01-01		AA-1	Christina
KNADN412LE6447556	2016-01-01		AA-1	Christina
KNADN412MD6160626	2016-01-01		AA-1	Christina
KNADN412MD6235201	2016-01-01		AA-1	Christina
KNADN512LC6032740	2016-01-01		AA-1	Christina
KNADN512LC6032741	2016-01-01		AA-1	Christina
KNADN512LC6032742	2016-01-01		AA-1	Christina
KNADN512LC6032743	2016-01-01		AA-1	Christina
KNADN512LC6032744	2016-01-01		AA-1	Christina
KNADN512LC6032745	2016-01-01		AA-1	Christina

※ Upload work list according to the instructions in the excel form

Management – Storage Vehicle Due List

※ This page will show which vehicle should be inspected for long term storage inspection

- The VIN information must be in KMC ERP (Port : All countries can use, Dealer : Subsidiaries can use)

Period
- Storage vehicle inspection period

Color
- Exterior color name will be added in March

Storage Vehicle Due List

> Management > Work List

Region : North America | Nation : U.S.A (B28VA) | Area : Port | Code : H (HUENEME) | 06/20/17

Plant : All | Vehicle : All | Period : All | Due : All

Inquiry | Reset | Excel

Region	Nation	Area	Code	VIN	Vehicle	Vehicle Name	Period	Color	Location	Arrival Date	Target Date	Due
North America	U.S.A (B28VA)	Port	H (HUENEME)	KNDJX3AEXG7013075	PS EV	Soul EV	510	NONGHYOB SPECIAL		01/27/16	06/20/17	0
North America	U.S.A (B28VA)	Port	H (HUENEME)	KNALW4D41G6031939	KH	K900, Quoris	510	AURORA BLACK PEARL		01/27/16	06/20/17	0
North America	U.S.A (B28VA)	Port	H (HUENEME)	KNDJX3AE3G7005125	PS EV	Soul EV	720	TITANIUM SILVER		07/01/15	06/20/17	0
North America	U.S.A (B28VA)	Port	H (HUENEME)	KNALW4D44G6031935	KH	K900, Quoris	510	SNOW WHITE PEARL		01/27/16	06/20/17	0
North America	U.S.A (B28VA)	Port	H (HUENEME)	KNDMB5C1XG6146586	YP	Carnival/Sedona	630	CLEAR WHITE		09/30/15	06/21/17	-1
North America	U.S.A (B28VA)	Port	H (HUENEME)	KNALW4D45H6036255	KH	K900, Quoris	60	SNOW WHITE PEARL		04/22/17	06/21/17	-1
North America	U.S.A (B28VA)	Port	H (HUENEME)	KNAGV4LD3H5013990	JF (P)HEV	Optima (P)HEV	60	SNOW WHITE PEARL		04/22/17	06/21/17	-1

- **Location**
  - If local system is connected, this menu will be available
- **Arrival Date**
  - Arrival date at port / dealer
- **Target Date**
  - Target date to be inspected for storage vehicle inspection

PMP Type	Aged Period	Vehicle	Due			
			- Window	Target Date (Today)	+ Window	Over Due
Storage vehicle Inspection	90D / 180D / 270D / 360D	UB/PS/YD/YDK/PSEV/TF/TFH/SL/VG/YP/ KH	-15	0	15	
	Every 30D	KH / PS EV / TF HEV	-5		5	
Example	90D	UB	75~89	90	91~115	116~

(Ex) Age of the vehicle at Port/Dealer

Management – Inspection Vehicle List

Inspection Vehicle List

> Management > Inspection Vehicle List

Region : All | Nation : All | Area : All | Code : All | 2017-04-05 - 2017-06-20

Plant : All | Model : All | Type : All | Defect Y/N : All | Vin :

Inquiry | Reset | Excel

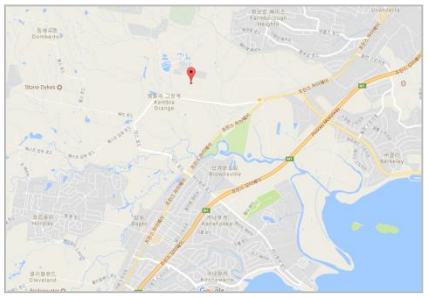
· Total: 1,480

Region	Nation	Area	Code	Inspcetion Type	Period	VIN	Vehicle	Vehicle Name	Dealer	Production Date	Inspection Date	Arrival Date	Target Date	Upload Time
Pacific	Australia (A02VE)	Port	F (SYDNEY)	PDI	-	KNAFK417MH5690629	YD	Cerato/Forte	Retail	11/02/16	06/20/17	11/30/16	-	06/20/17 13:1
Pacific	Australia (A02VE)	Port	F (SYDNEY)	PDI	-	KNAFK417MH572	YD	Cerato/Forte	Retail	03/06/17	06/20/17	03/31/17	-	06/20/17 13:1
Pacific	Australia (A02VE)	Port	F (SYDNEY)	PDI	-	KNAGV412MH515083	JF	Optima	Retail	12/20/16	06/20/17	01/19/17	-	06/20/17 13:1
Pacific	Australia (A02VE)	Port	F (SYDNEY)	PDI	-	KNAPM81AMH7310967	QL	Sportage	Retail	04/18/17	06/20/17	05/19/17	-	06/20/17 13:0
Pacific	Australia (A02VE)	Port	F (SYDNEY)	PDI	-	KNAMB811MJ6358680	YP	Carnival/Sedona	Retail	05/15/17	06/20/17	05/31/17	-	
Pacific	Australia (A02VE)	Port	F (SYDNEY)	PDI	-	KNAFK417MH5713285	YD	Cerato/Forte	Retail	01/18/1				

· **Inspection Detail Result**
- Detail inspection sheet will be pop up when the VIN is clicked

Mileage	GPS	Repair Request
9	-34.47, 150.80	
10	-34.47, 150.80	
8	-34.47, 150.80	

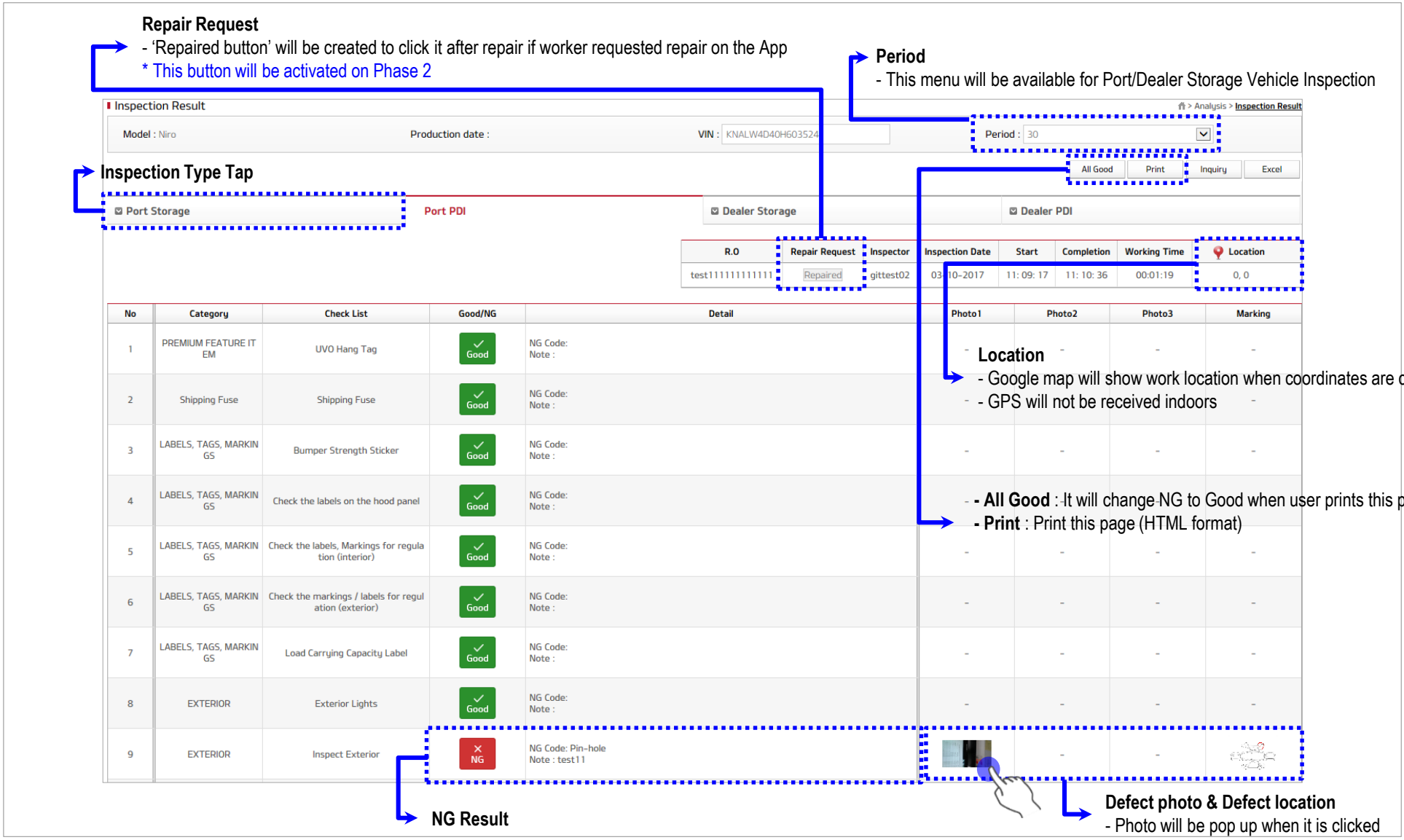
· **GPS check**
- Location vehicle inspection implemented could be check when you click the GPS on the right side of this page,



[Detail information users can check]

Region	Dealer	Battery
Nation	Production Date	Input Type
Area	Inspection Date	Driving Test Y/N
Code	Arrival Date	DTC Check Y/N
Insepection Type	Target Date	Inspector
Period	Upload Time	Mileage
Vin	Inspection Time	GPS
Vehicle	NG Y/N	Repair Request
Vehicle Name	NG Count	R.O

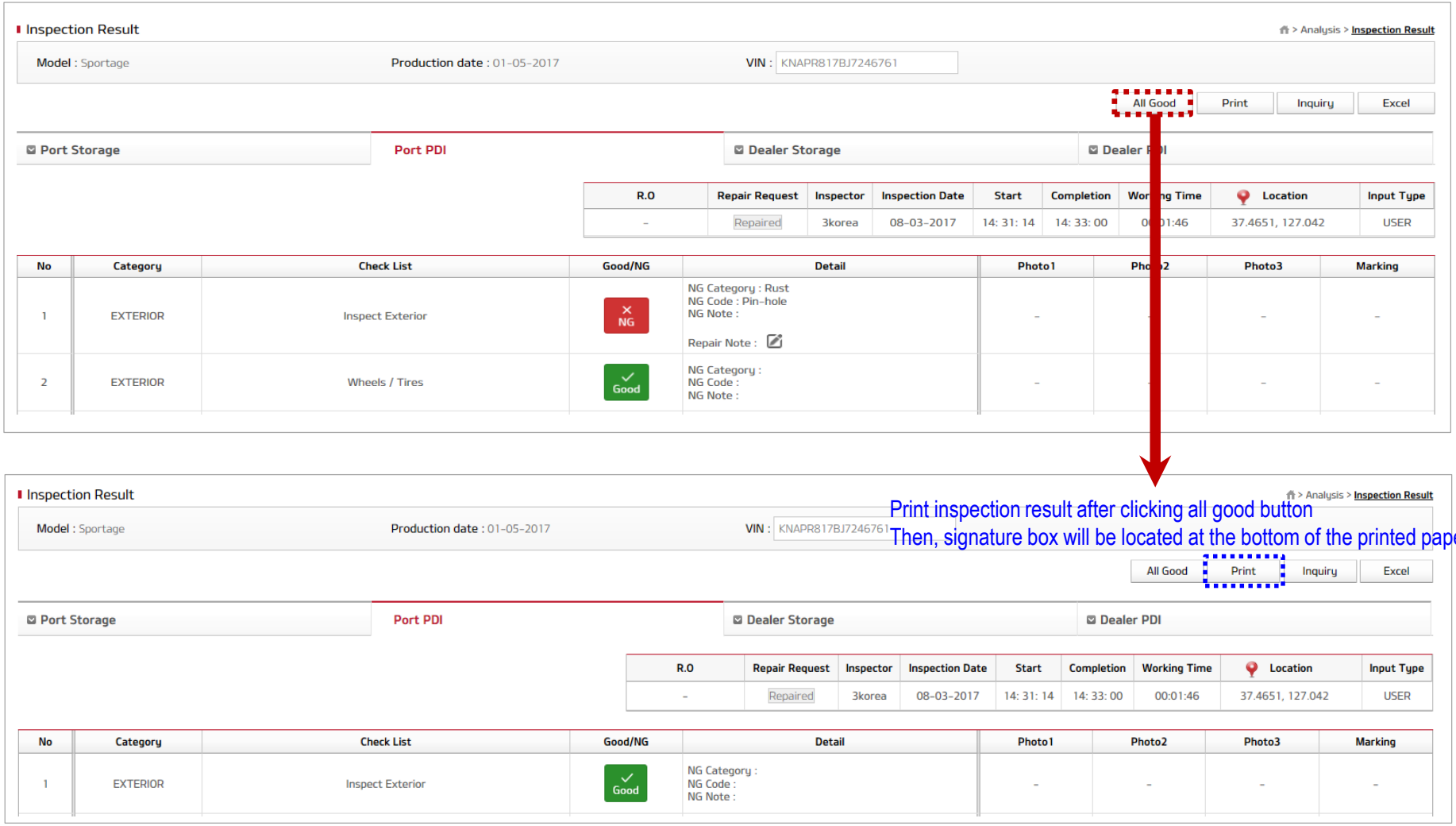
Management – Inspection Vehicle List _ Inspection Detail Result(1)



Management – Inspection Vehicle List _ Inspection Detail Result(2)

*** All Good button**

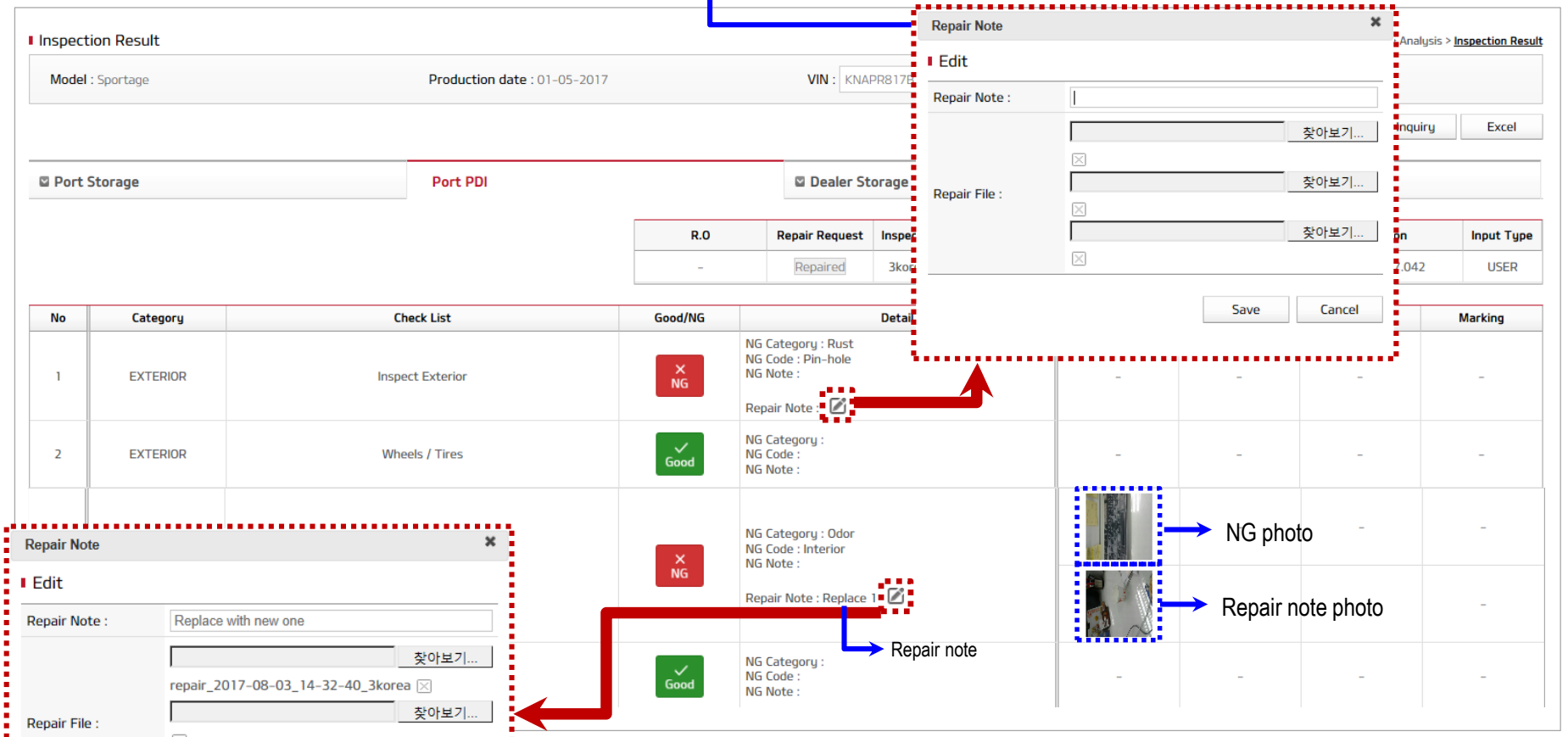
*** If user clicks all good button, this inspection result will be temporarily changed to all good for print.**
*** This function is available for manager to show the inspection result to customer after all repair.**



Management – Inspection Vehicle List _ Inspection Detail Result(3)

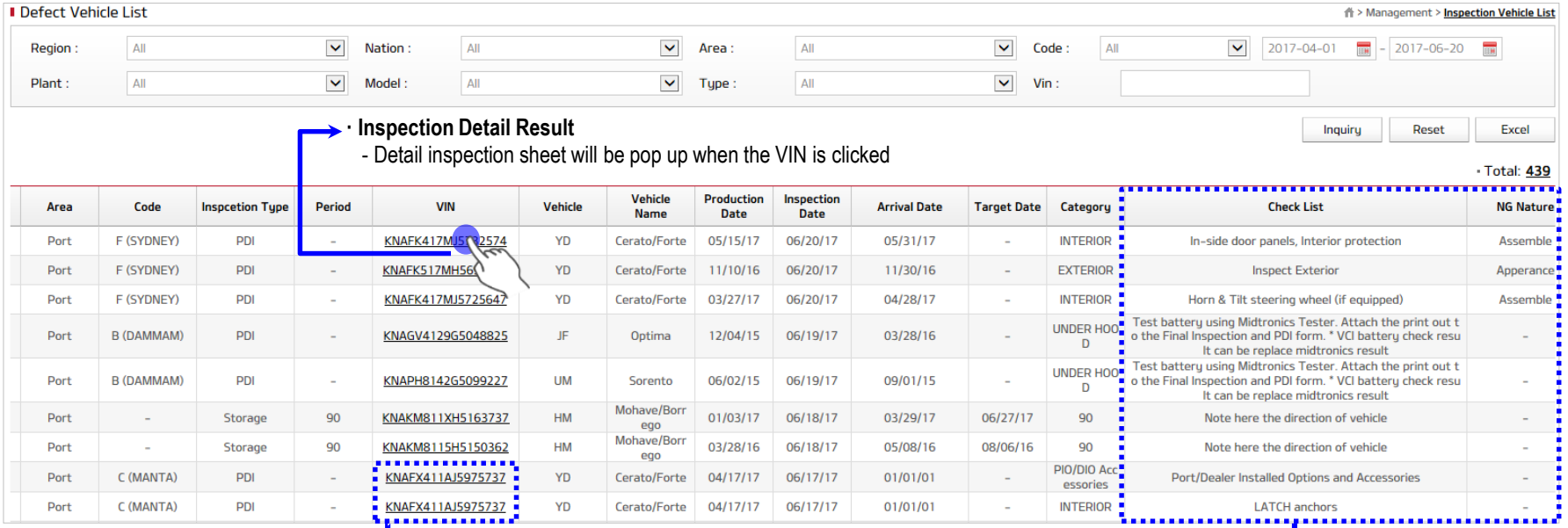
*** Repair Note on GPMS Web site**

This repair note will pop up when you click the repair note button of the NG list which does not include repair note in GPMS app. Users can leave a repair note or photos



This repair note will pop up with some information if inspectors leave repair note on GPSM App.
And this note or photos can be edited by web user.

Management – Defect Vehicle List



· Inspection Detail Result
- Detail inspection sheet will be pop up when the VIN is clicked

If one vehicle has several NGs, the VIN will be recorded several times.
This page records each NG list.

NG note & NG code inspector left will be shown on this section.

Management – Daily Inspection Total

- **Monthly : The information for each month will be showed**
- **Yearly : The information for each year will be showed**

※ Daily : The information for each day will be showed (This will be added soon)

Daily Inspection Total

> Management > Daily Inspection Total

Region : All | Nation : All | Area : All | Code : All

Plant : All | Model : All | Type : All | 2017-06 ~ 2017-06 | Monthly / Yearly

Inquiry | Reset | Excel

Model

Total: 1030

Date	Model		Africa	C&S America	Middle East	North America	Pacific	Western Europe	Total
			D2	B2	D1	B1	A2	C1	
06/2017	Picanto	JA	1	19	6	0	6	6	38
	Picanto	TA	1	59	115	0	0	1	176
	Rio	UB	1	28	0	1	0	0	30
	Sportage	QLe	2	0	13	0	0	12	27
	Cerato/Forte	YD	0	2	50	3	83	0	138
	Niro	DE HEV	0	1	0	11	0	1	13
	Optima (P)HEV	JF (P)HEV	0	5	0	5	0	0	10
	Sportage	QL	0	1	0	9	51	0	61
	Cadenza	VG	0	0	2	0	0	0	2
	Cadenza	YG	0	0	51	2	0	0	53
	Carnival/Sedona	YP	0	0	4	3	19	0	26
	K2000/2700/300...	PU	0	0	222	0	0	0	222
	Mohave/Borrego	HM	0	0	7	0	0	0	7
	Optima	JF	0	0	116	11	10	2	139
	Sorento	UM	0	0	2	0	23	0	25
	Soul	PS	0	0	2	18	1	0	21
	K900, Quoris	KH	0	0	0	5	0	0	5
	Soul EV	PS EV	0	0	0	1	0	0	1
	Rio	YB	0	0	0	0	14	6	20
	Ceed	JD	0	0	0	0	0	13	13
	Venga	YN	0	0	0	0	0	3	3
Sub			5	115	590	69	207	44	1030

Region/Nation/Area classification

- This will be depend on combo box.
  - · Region classification => Region (All), Nation (All), Area(All)
  - · Nation classification => Region (Selected), Nation (All), Area(All)
  - · Port/Dealer Classification => Region (Selected), Nation (Selected), Area(All)
  - · Port/Dealer code Classification => Region (Selected), Nation (Selected), Area(Selected)

Management – Daily Defect Total

- **Monthly : The information for each month will be showed**
- **Yearly : The information for each year will be showed**

※ Daily : The information for each day will be showed (This will be added soon)

- **Defect Vehicle : The number of vehicles which have 'NG'**
- **Defect Count : The number of NG**

Daily Defect Total

> Management > Daily Defect Total

Region : All | Nation : All | Area : All | Code : All

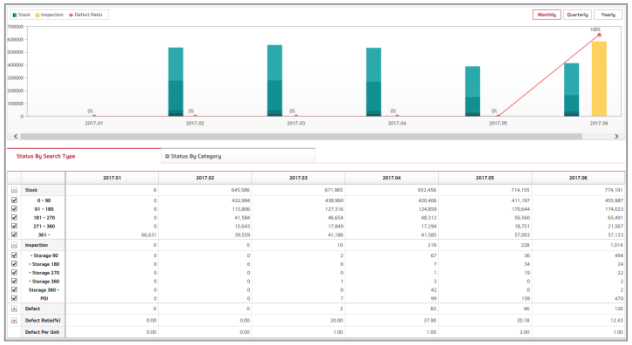
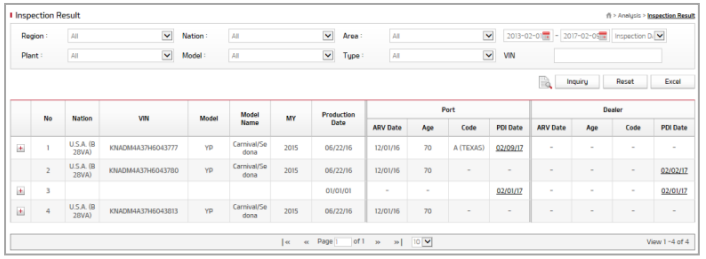
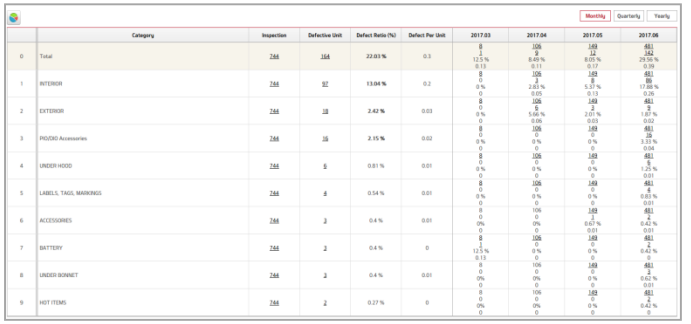
Plant : All | Model : All | Type : All | 2017-06 - 2017-06 | Monthly Yearly

Inquiry | Reset | Excel

· Total Defect Count: 208

Date	Model		Defect	-	Africa	C&S America	Middle East	North America	Pacific	Western Europe	Total
				B1	D2	B2	D1	B1	A2	C1	
2017	Carnival/Sedona	YP	Defect Vehicle	1	0	0	0	0	0	0	1
			Defect Count	2	0	0	0	0	0	0	2
	Picanto	TA	Defect Vehicle	0	1	39	7	0	0	0	47
			Defect Count	0	2	43	7	0	0	0	52
	Rio	UB	Defect Vehicle	0	1	17	0	1	0	0	19
			Defect Count	0	3	18	0	3	0	0	24
	Sportage	QLe	Defect Vehicle	0	2	0	1	0	0	2	5
			Defect Count	0	4	0	1	0	0	9	14
	Cerato/Forte	YD	Defect Vehicle	0	0	2	5	0	4	0	11
			Defect Count	0	0	7	5	0	4	0	16
	Niro	DE HEV	Defect Vehicle	0	0	1	0	1	0	0	2
			Defect Count	0	0	3	0	8	0	0	11
	Optima (P)HEV	JF (P)HEV	Defect Vehicle	0	0	5	0	1	0	0	6
			Defect Count	0	0	11	0	1	0	0	12
	Picanto	JA	Defect Vehicle	0	0	11	0	0	2	0	13
			Defect Count	0	0	39	0	0	2	0	41
	Sportage	QL	Defect Vehicle	0	0	1	0	1	0	0	2
			Defect Count	0	0	2	0	1	0	0	3
	Cadenza	YG	Defect Vehicle	0	0	0	1	1	0	0	2
			Defect Count	0	0	0	1	4	0	0	5
	Mohave/Borrego	HM	Defect Vehicle	0	0	0	2	0	0	0	2
			Defect Count	0	0	0	2	0	0	0	2
	Soul	PS	Defect Vehicle	0	0	0	0	2	0	0	2
			Defect Count	0	0	0	0	3	0	0	3
	Soul EV	PS EV	Defect Vehicle	0	0	0	0	1	0	0	1
			Defect Count	0	0	0	0	1	0	0	1
	Rio	YB	Defect Vehicle	0	0	0	0	0	1	1	2
			Defect Count	0	0	0	0	0	1	1	2
	Ceed	JD	Defect Vehicle	0	0	0	0	0	0	6	6
			Defect Count	0	0	0	0	0	0	10	10
	Venga	YN	Defect Vehicle	0	0	0	0	0	0	1	1
			Defect Count	0	0	0	0	0	0	1	1
	Sub		Defect Vehicle	11	4	76	18	11	9	10	128
			Defect Count	28	9	123	18	28	9	21	208

Analysis

Analysis	Detail
Analysis ▪ Overall Analysis ▪ Inspection Result ▪ Top Claim	**1 Overall Analysis** - It shows overall statistics about stock, the number of inspected vehicles and defect, defect ratio, defect per unit number of defect and defect rate. (The data could be optionally classified according to period or region) 
	2 Inspection Result - It shows detail information of inspected vehicles about model name, model year, manufacturing date, arrival date, PDI date and storage vehicle inspection date. (Detail NG list of an inspected vehicle could be reviewed) 
	3 Top Claim - It shows statistics of top claim about number of inspected vehicle & inspection rate, number of defect & defect rate. 

Analysis - Overall Analysis (1)

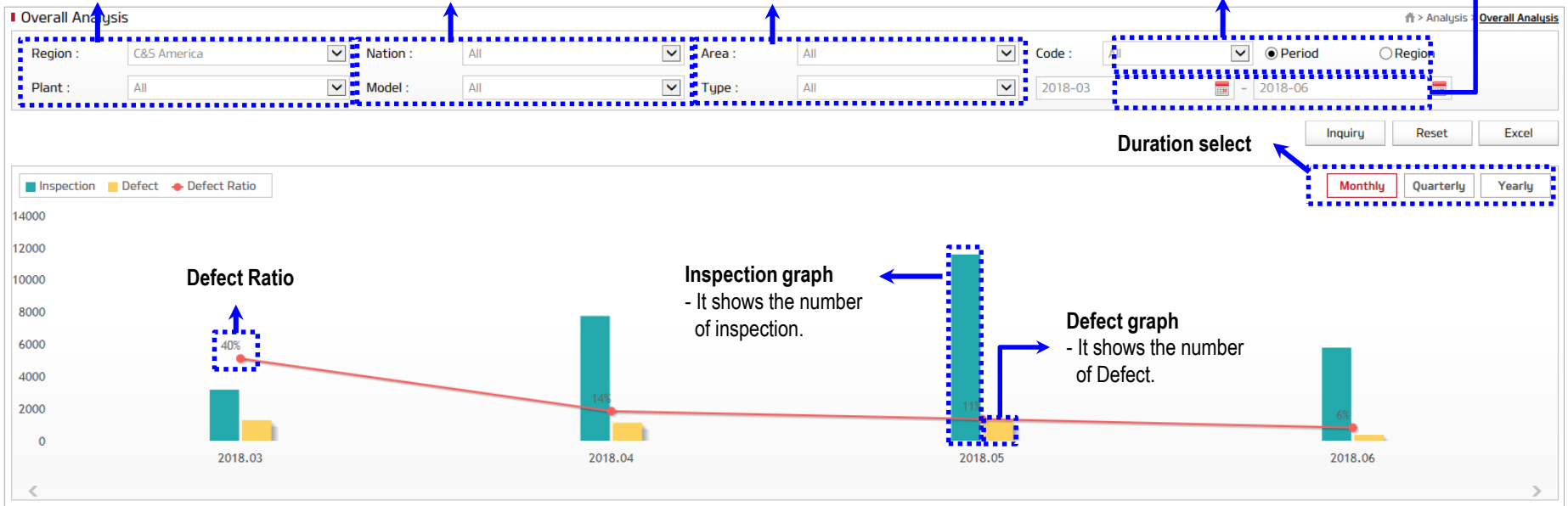
Period (Monthly / Quarterly / Yearly) **& Region**
Ex 1 > Period → Region will be displayed
Ex 2 > Region → Countries will be displayed
* Need to click 'Inquiry' button after select the menu

· **Region**
· **Plant** (KMC / KMMG / KMS / KMM)

· **Nation**
· **Model**

· **Area** (Port/Distributor/Dealer)
· **Type** (PDI/Storage)

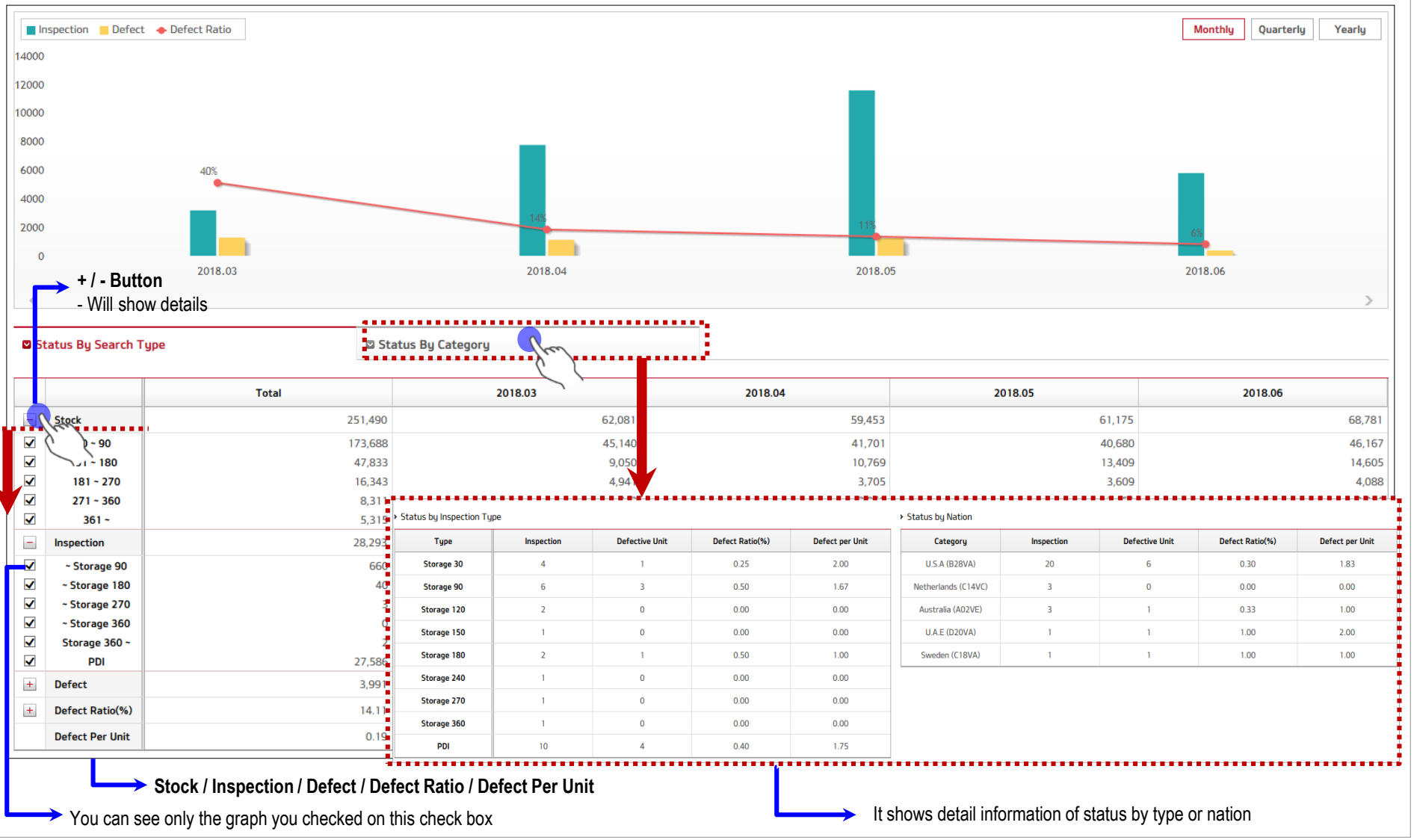
Date Selection



Status By Search Type | Status By Category

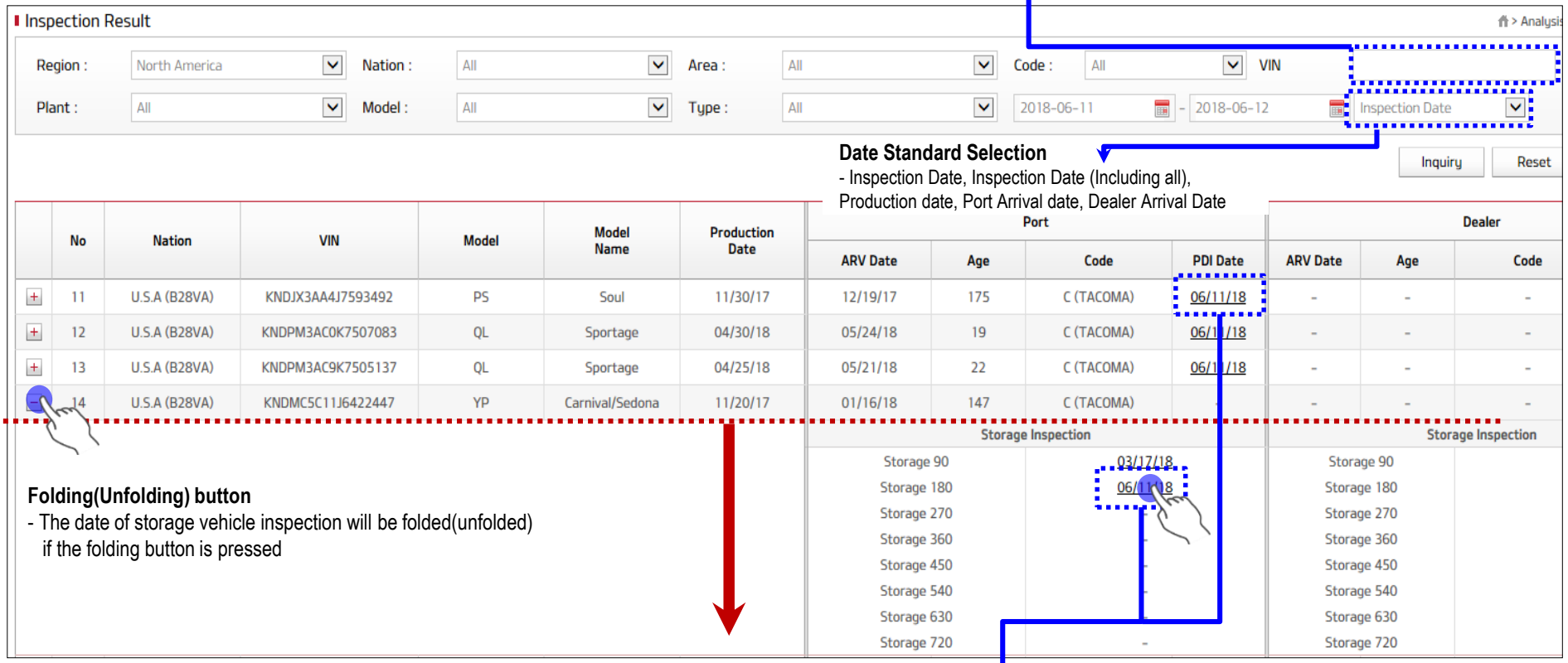
	Total	2018.03	2018.04	2018.05	2018.06
Stock	251,490	62,081	59,453	61,175	68,781
Inspection	28,293	3,175	7,757	11,576	5,785
Defect	3,991	1,274	1,120	1,228	369
Defect Ratio(%)	14.11	40.13	14.44	10.61	6.38
Defect Per Unit	0.19	0.59	0.16	0.15	0.09

Analysis - Overall Analysis (2)



Analysis - Inspection Result

VIN input (Option)
- To search an inspection result for a specific vehicle



Date Standard Selection
- Inspection Date, Inspection Date (Including all), Production date, Port Arrival date, Dealer Arrival Date

Folding(Unfolding) button
- The date of storage vehicle inspection will be folded(unfolded) if the folding button is pressed

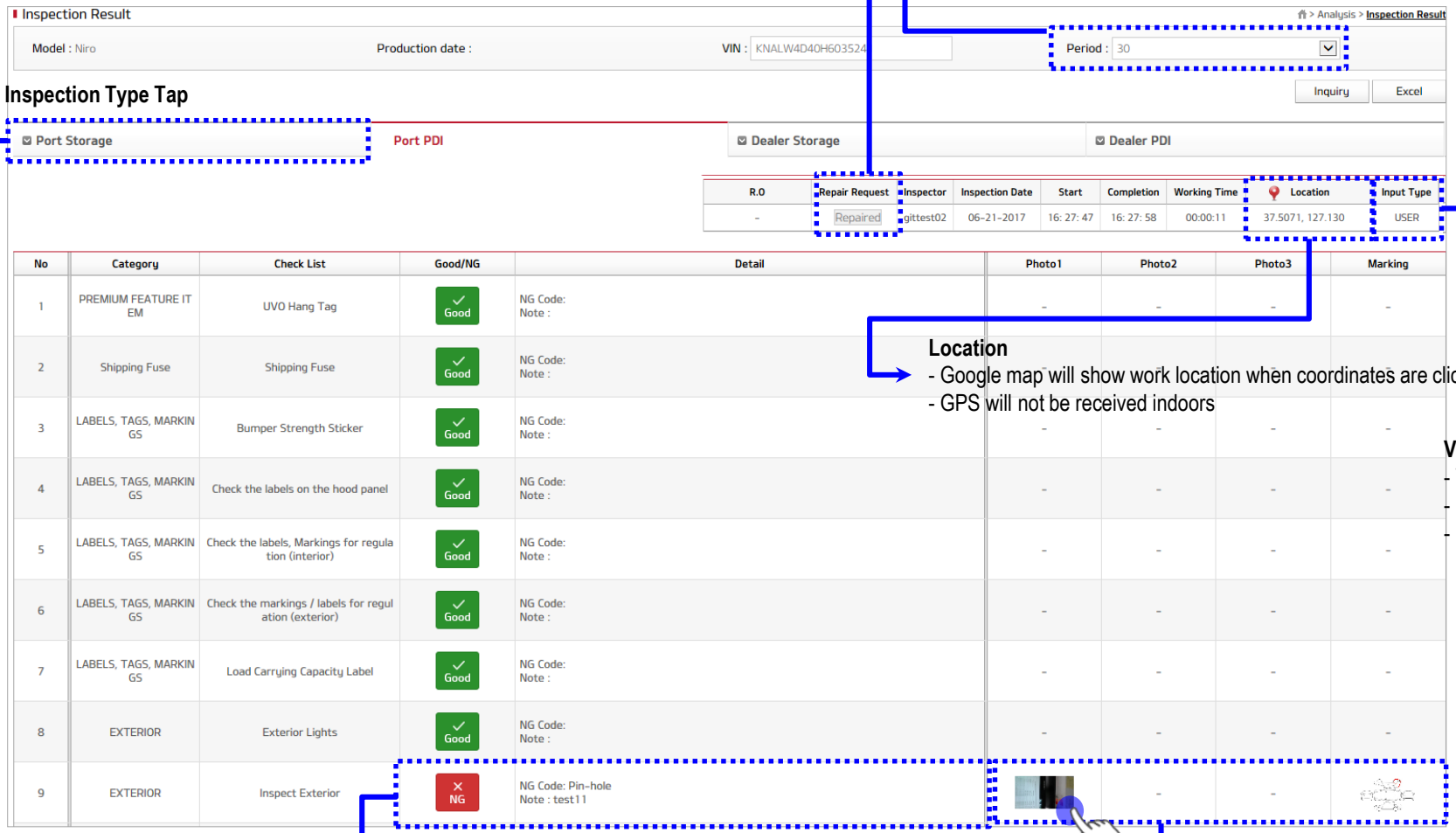
Inspection Date
- Can see detail inspection result if the inspection date is clicked

Analysis - Inspection Result (Detail)_1

Repair Request
- 'Repaired button' will be created to click it after repair if worker requested repair on the App
* This button will be activated on Phase 2 (It will be related with repair note)

Period
- This menu will be available for Port/Dealer Storage Vehicle Inspection

Inspection Type Tap



Location
- Google map will show work location when coordinates are clicked
- GPS will not be received indoors

VIN input type
- VCI (by mini VCI)
- SCAN (By camera Scan)
- USER (By manual)

NG Result

Defect photo & Defect location
- Photo will be pop up when it is clicked

Analysis - Inspection Result (Detail)_2

※ Road Test & DTC check are not essential. Please follow each distributor's guideline.

※ At the bottom of inspection result detail page

62	ROAD TEST	Check operation safety systems if fitted	Good	NG Category : NG Code : NG Note :	-	-	-	-
63	ROAD TEST	Check operation of cruise control	Good	NG Category : NG Code : NG Note :	-	-	-	-
64	ROAD TEST	Check for squeaks, rattles and abnormal noises	Good	NG Category : NG Code : NG Note :	-	-	-	-

› Road Test (Battery)

Category	Value	Category	Value
Battery Voltage (V)	12.60	Battery Soc (%)	95
Driving distance (km, mile)	9.5/5.8	AVG,RPM (rpm)	1273.7
Driving Time (hh:mm:ss)	00:20:26	Engine Coolant Temp (℃,℉)	70.1/158.2
Note	-		

› TPMS

VCI	FL	43.75	Manual	FL	44
	FR	45.00		FR	44
	RL	44.00		RL	44
	RR	43.75		RR	44

› DTC check

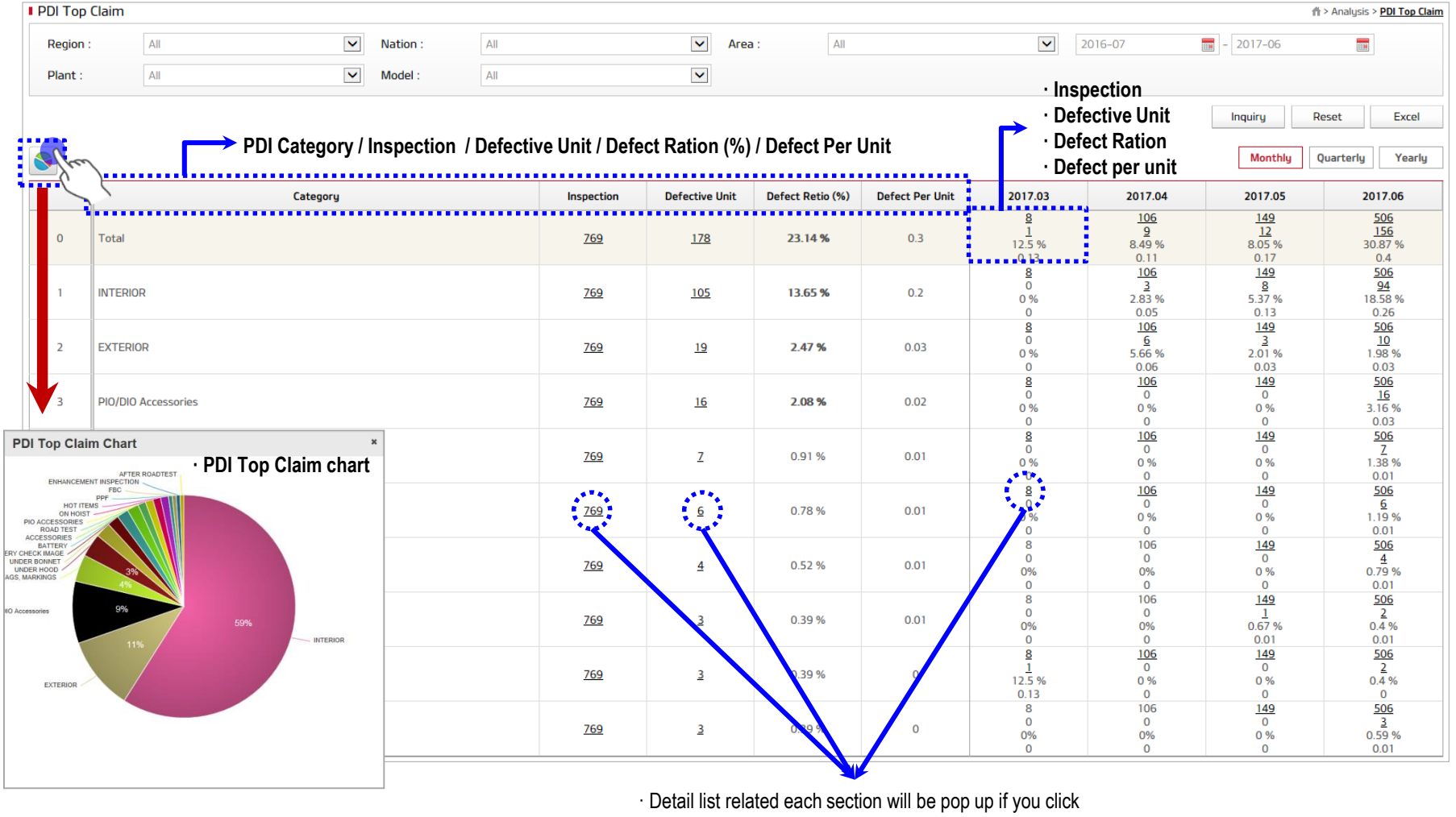
System		DTC	Description	Type
ENGINE		P0222	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	History
ENGINE		P2106	Throttle Actuator Control System – Forced Limited Power	History
ENGINE		P0123	Throttle/Pedal Position Sensor/Switch "A" Circuit High	History
ENGINE		P2110	Throttle Actuator Control System – Forced Limited RPM	History

Road test result including Battery check by VCI

Tire pressure (Road test result)

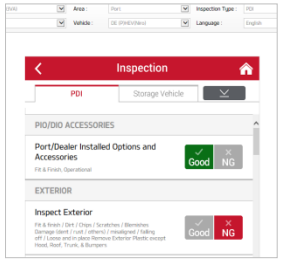
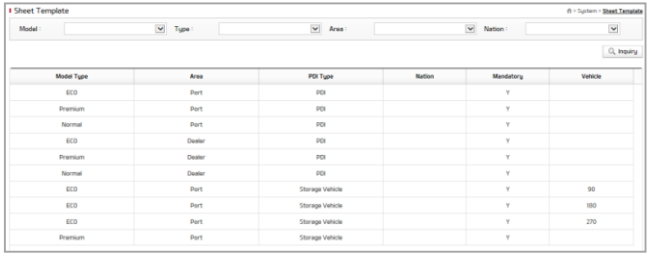
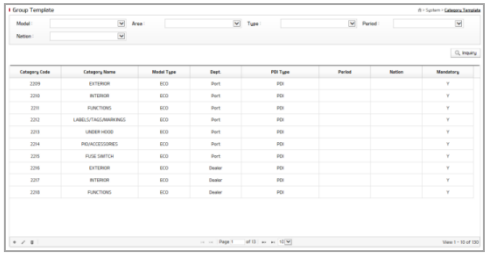
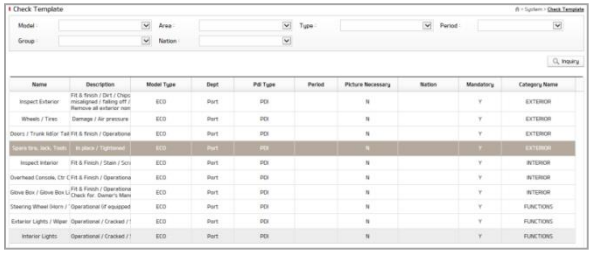
DTC check result

Analysis – Top Claim

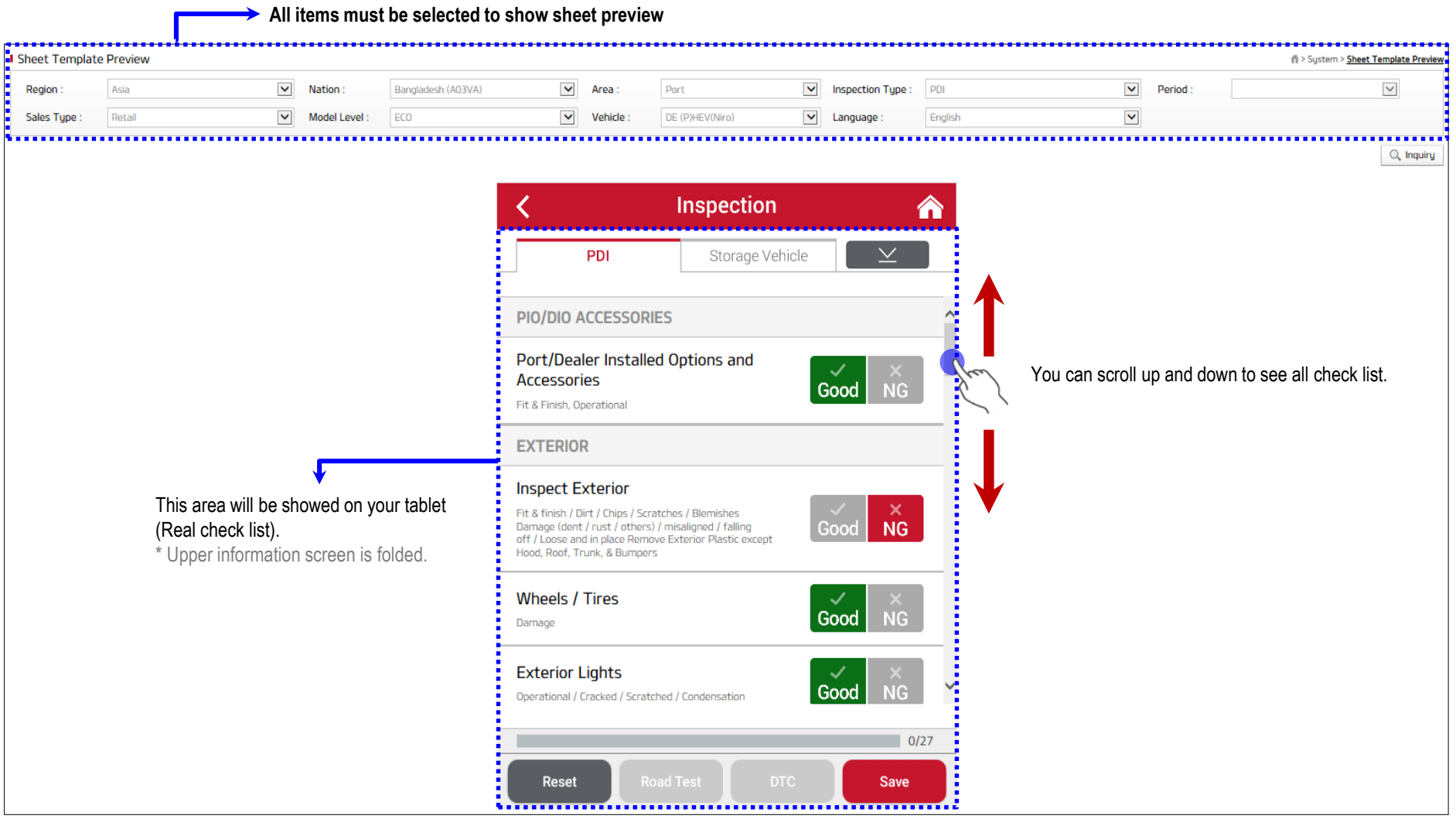


	Category	Inspection	Defective Unit	Defect Retio (%)	Defect Per Unit	2017.03	2017.04	2017.05	2017.06
0	Total	769	178	23.14 %	0.3	8 1 12.5 % 0.13	106 9 8.49 % 0.11	149 12 8.05 % 0.17	506 156 30.87 % 0.4
1	INTERIOR	769	105	13.65 %	0.2	8 0 0 % 0	106 3 2.83 % 0.05	149 8 5.37 % 0.13	506 94 18.58 % 0.26
2	EXTERIOR	769	19	2.47 %	0.03	8 0 0 % 0	106 6 5.66 % 0.06	149 3 2.01 % 0.03	506 10 1.98 % 0.03
3	PIO/DIO Accessories	769	16	2.08 %	0.02	8 0 0 % 0	106 0 0 % 0	149 0 0 % 0	506 16 3.16 % 0.03
		769	7	0.91 %	0.01	8 0 0 % 0	106 0 0 % 0	149 0 0 % 0	506 7 1.38 % 0.01
		769	6	0.78 %	0.01	8 0 0 % 0	106 0 0 % 0	149 0 0 % 0	506 6 1.19 % 0.01
		769	4	0.52 %	0.01	8 0 0% 0	106 0 0% 0	149 0 0 % 0	506 4 0.79 % 0.01
		769	3	0.39 %	0.01	8 0 0% 0	106 0 0% 0	149 1 0.67 % 0.01	506 2 0.4 % 0.01
		769	3	0.39 %	0	8 1 12.5 % 0.13	106 0 0 % 0	149 0 0 % 0	506 2 0.4 % 0
		769	3	0.39 %	0	8 0 0% 0	106 0 0% 0	149 0 0 % 0	506 3 0.59 % 0.01

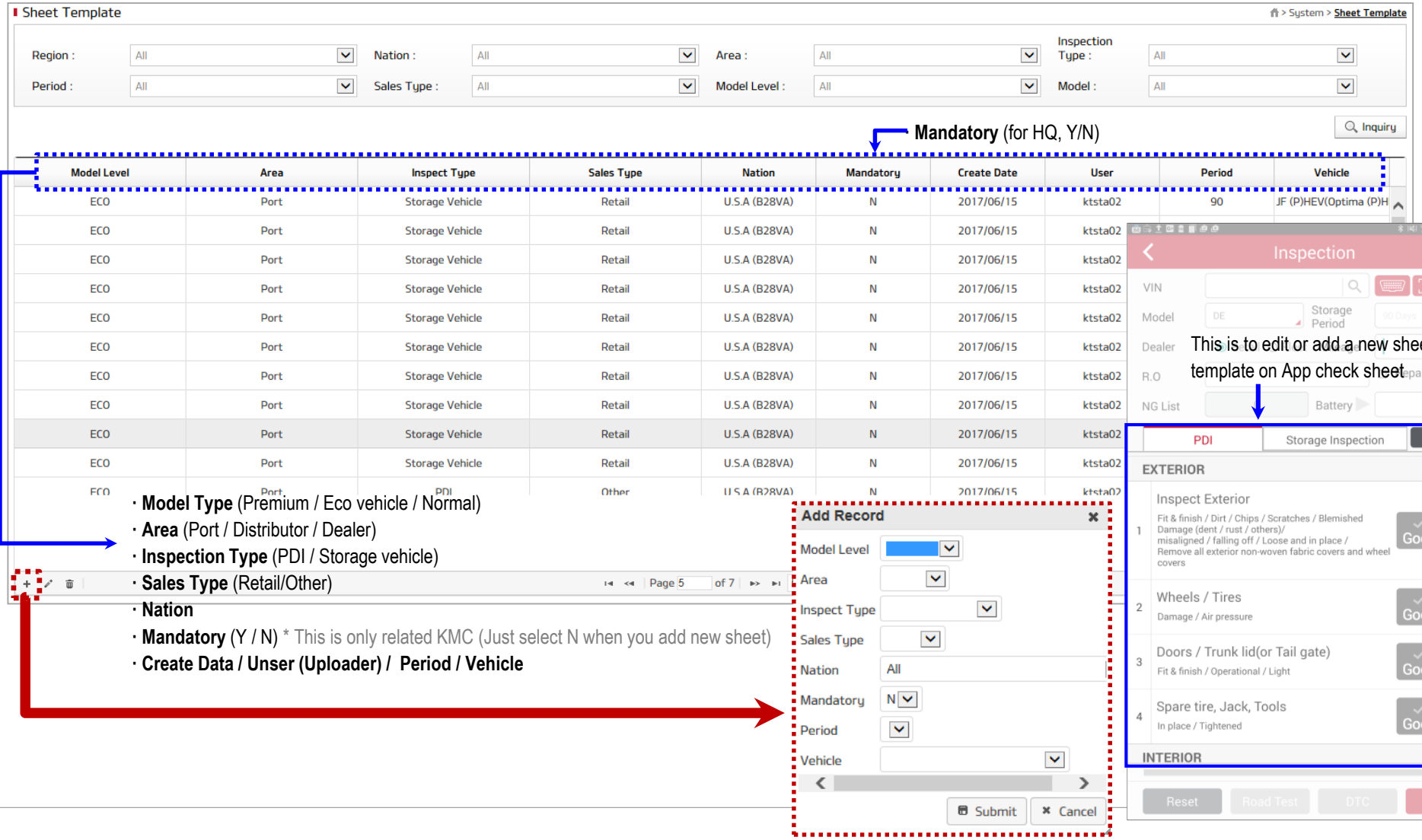
Sheet Editor

Analysis	Detail
Sheet Editor ▪ Sheet Template – Sheet Preview – Sheet Template – Category Template – Check Template	**1** **Sheet Preview** - It shows sheet preview screen  **2** **Sheet Template** - It shows overall model type, area, PDI type, vehicle settle date  **3** **Category Template** - It shows information of inspection category, model, location and PDI type  **4** **Check list Template** - It shows list of inspection items, detail description, location, region and necessity of picture 

Sheet Editor – Sheet Preview



Sheet Editor – Sheet Template



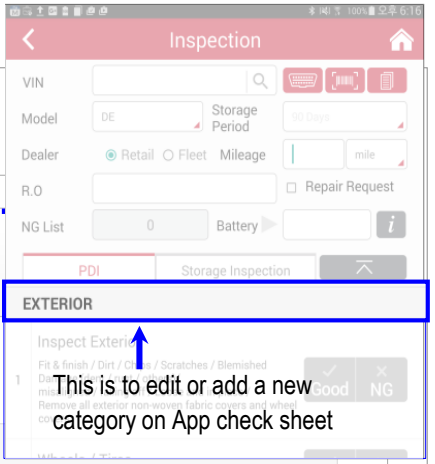
Sheet Editor – Category Template

All items must be selected to show category list

Category Template

Region : Middle East | Nation : Israel (D06VB) | Area : Port | Inspection Type :

Period : | Sales Type : Retail | Model Level : Normal | Model :



This is to edit or add a new category on App check sheet

1 Category List

Category List

Category name can be edited on '2.Multi Language' section after category list registration.

No	Category Name	Mandatory
0	EXTERIOR	Y
0	INTERIOR	Y
0	LABELS, TAGS, MARKINGS	Y
0	UNDER HOOD	Y
0	PIO/DIO Accessories	N
0	SHIPPING FUSE	Y
0	FUSE COVER	Y

2 Multi Language Message

Multi Language Message

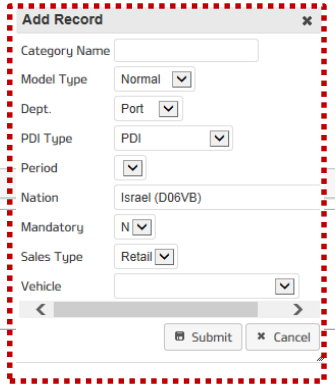
Only the (4) languages registered to the GPMS system code are supported

Lang Code	Name	Type
Arabic	الهيكل الخارجي	
English	EXTERIOR	
Hebrew	מחוץ לרכב	
Spanish	EXTERIOR	
Vietnamese	BÊN NGOÀI	

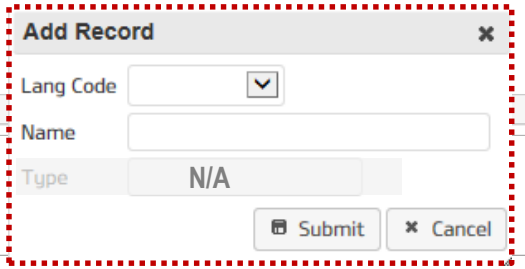
Users can add new language for each category or edit registered categories

1) Click a category on ①Category list (right side on screen) first.
2) Click the add button(+) on ② Multi Language Message.
3) If the following window pop up, select language code and input the category name on the language you want to add.
※ Type is not available now (It will be deleted)

Categories of the sheet you selected will be showed and you can add/delete the sheet on this page.



Add(New) / Edit / Delete

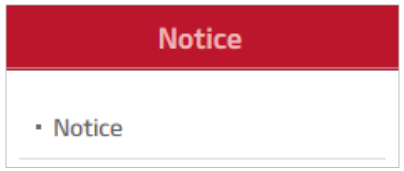


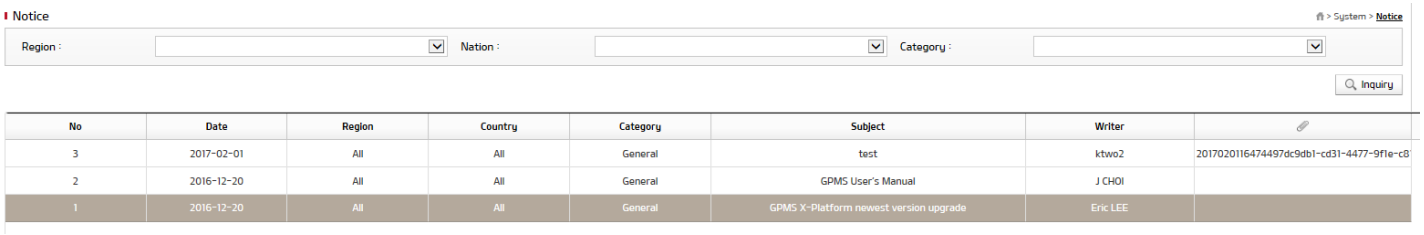
This page will be updated soon

This page will be updated soon

This page will be updated soon

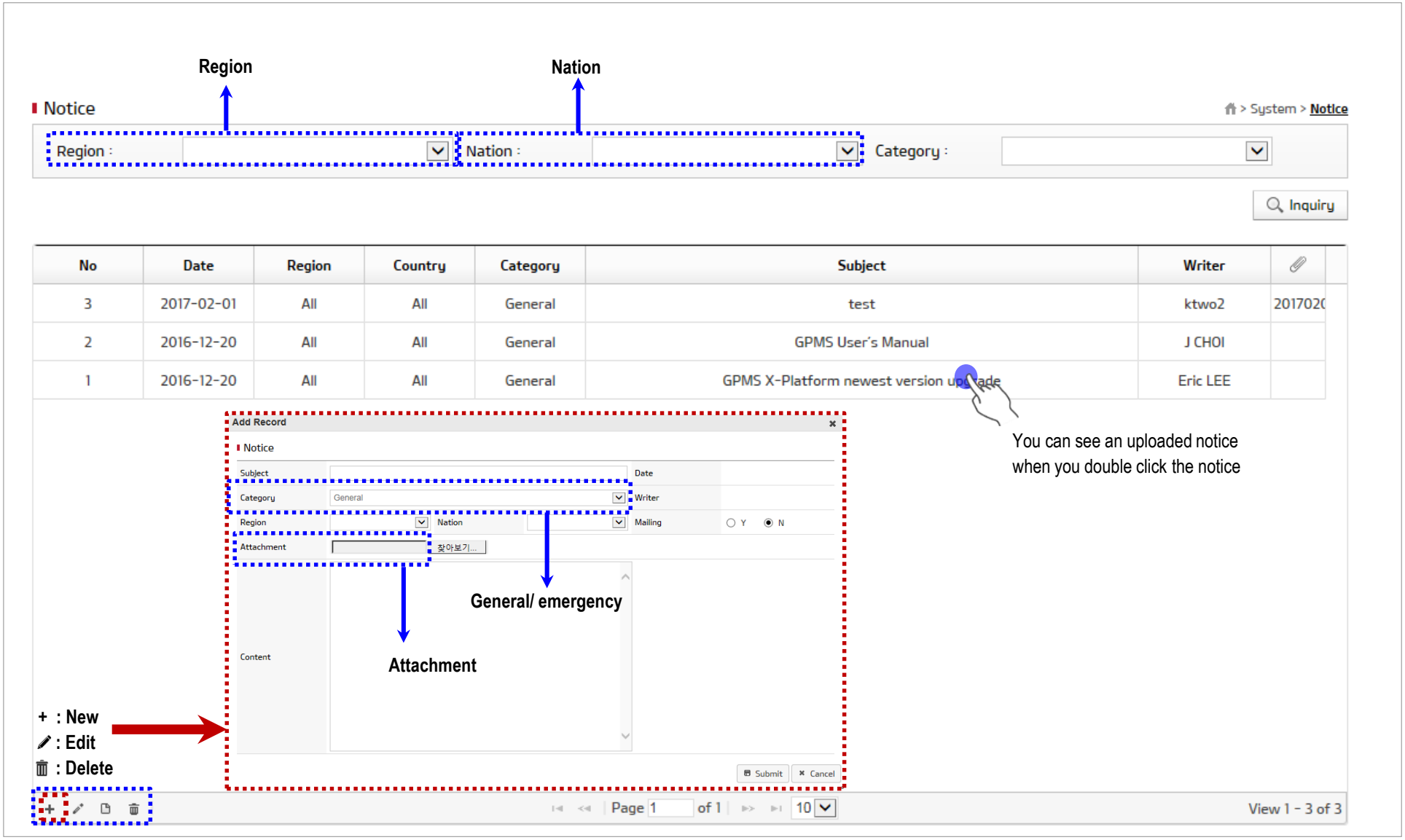
Notice

Notice	Detail
	**1 Notice** - It shows overall notice information about region, country, category, writer, attachment, notice date (Mailing system for emergency notice will be added on 'Phase2')

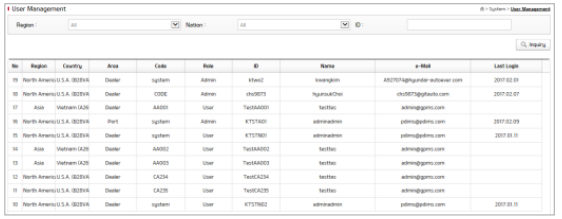
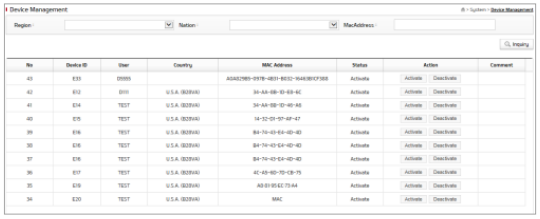


Notice - Notice Management

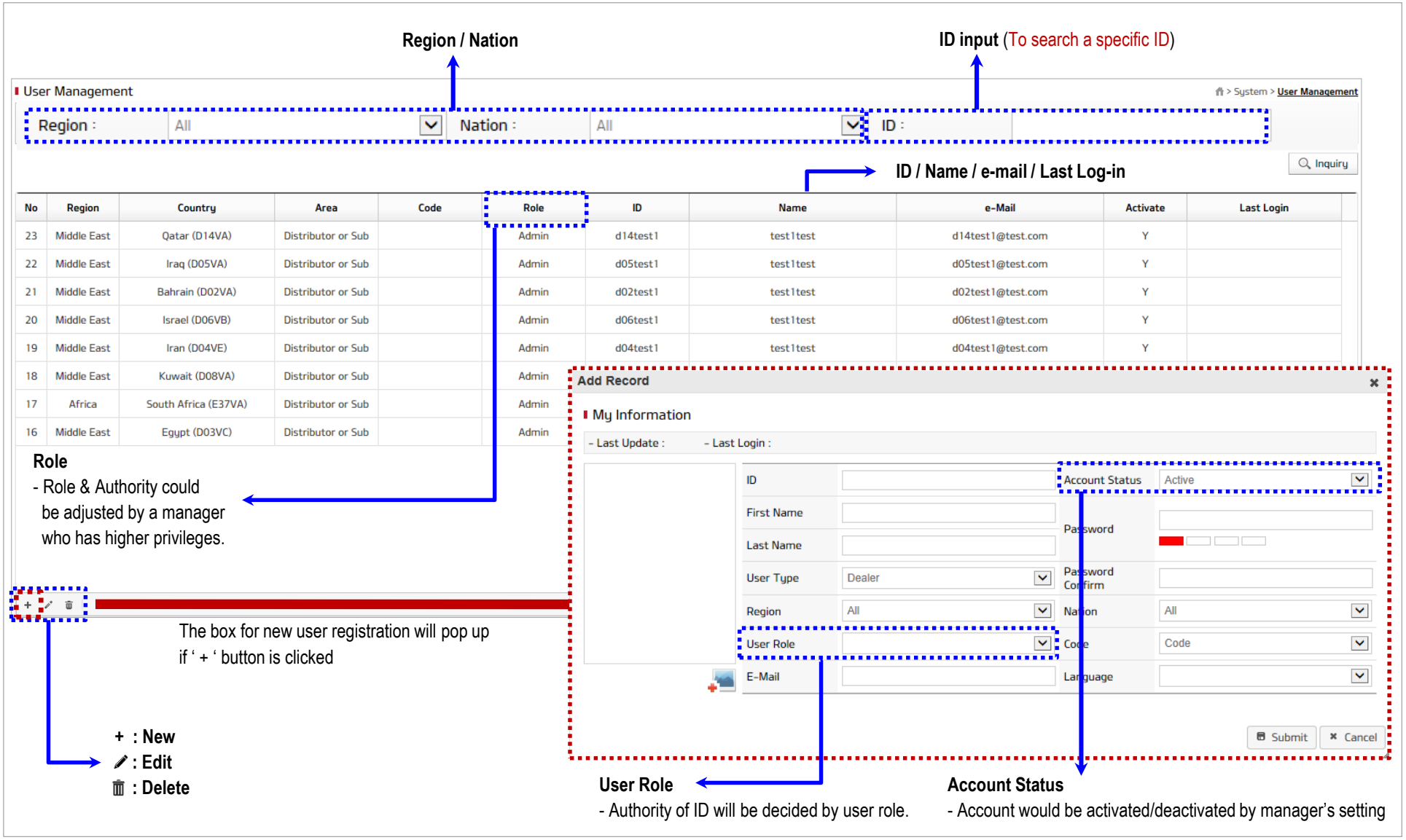
※ Composition of this page will be optimized for notice



Admin

Management	Detail
Admin ▪ User ▪ Device ▪ Nation ▪ Model ▪ App File ▪ Com File ▪ Diag DB ▪ User Access Log ▪ Privacy Notice File	**1** **User** - It helps managers to register or delete users. (Authority for this system could be adjusted)  **2** **Device** - It helps managers to activate or deactivate device  **3** **Privacy Notice File** - **4** **Nation/Model/App File / Com File / Diag DB/User Access Log** - For S/W upload and management ※ These menus will be managed by KMC

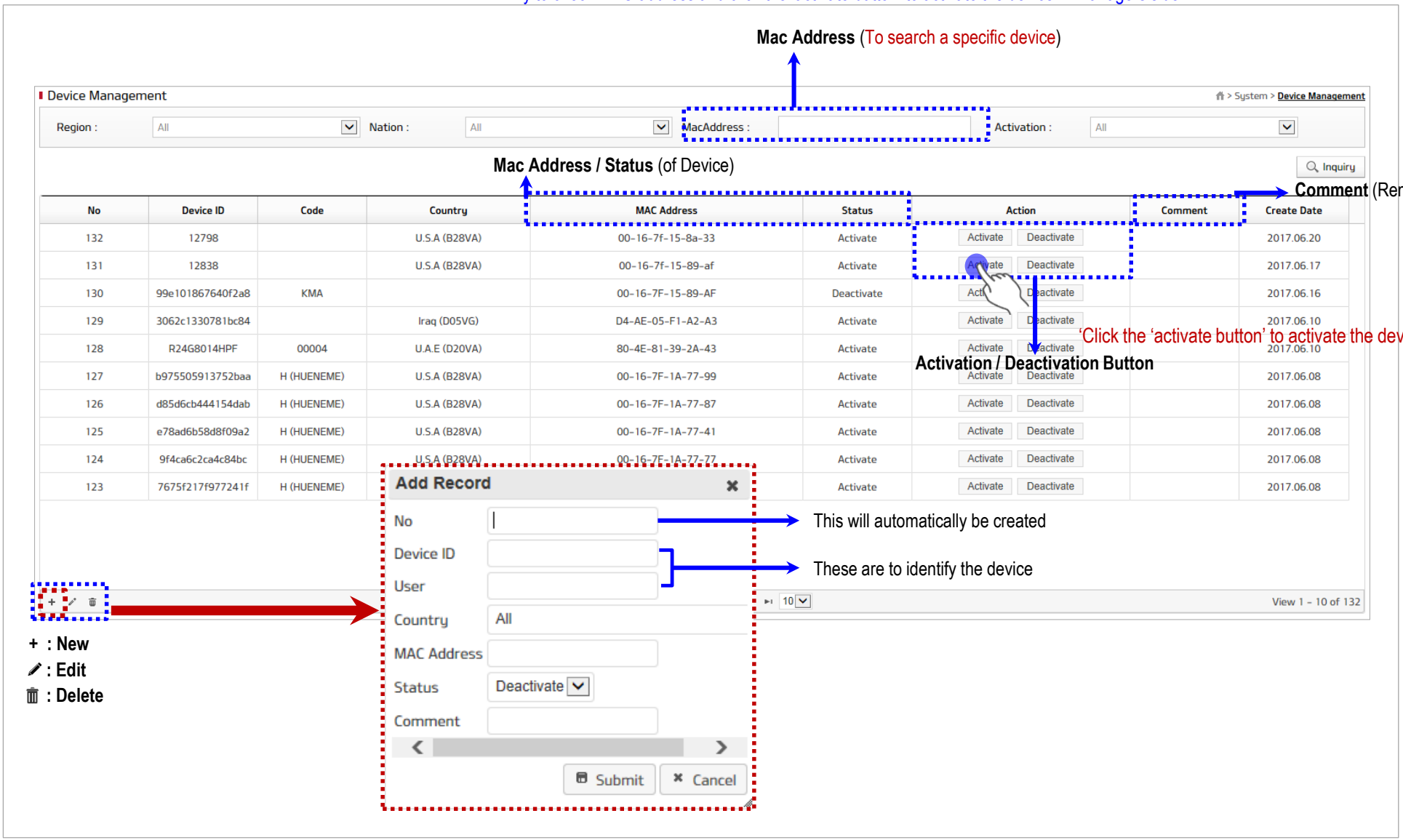
Admin - User Management



Admin - Device Management

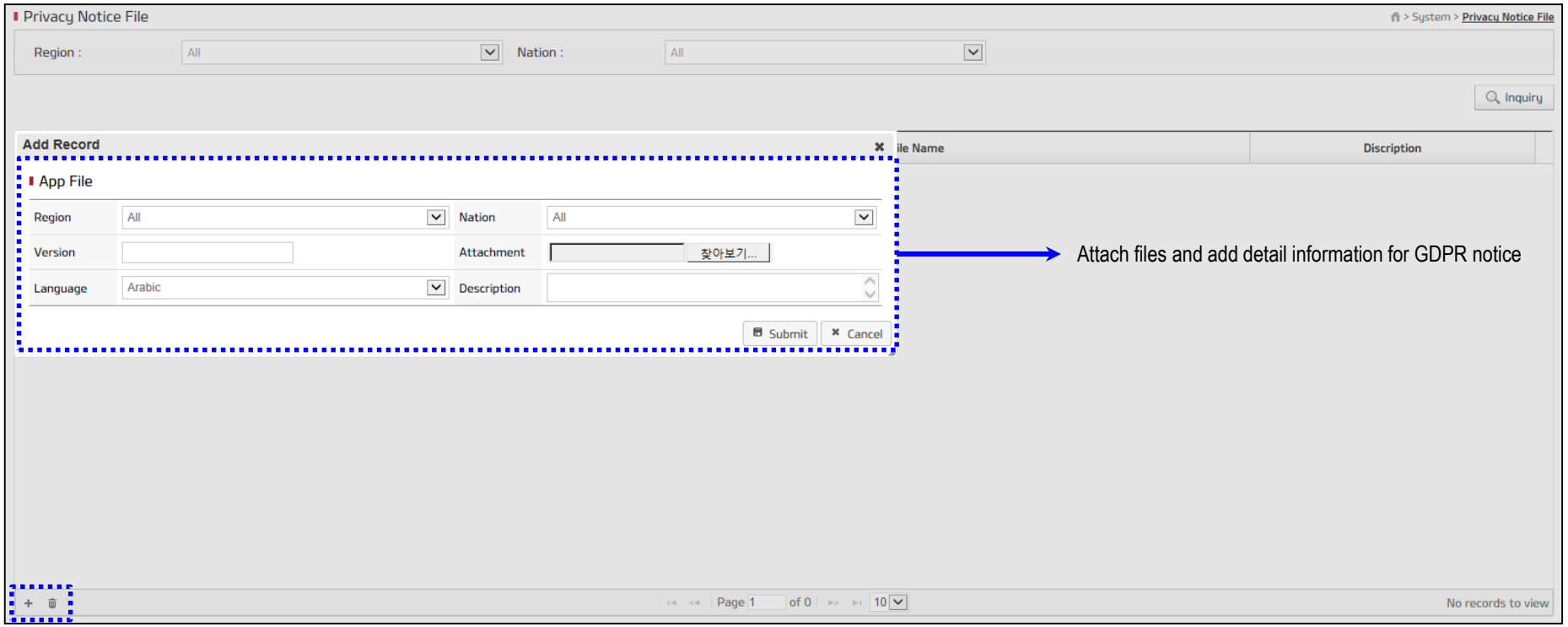
※ KMC would like to strongly recommend the following way to register device.

1. Try to log-in GPMS app on tablet. (Device will be automatically registered on web site) – workers side
2. Try to check MAC address and click the 'activate button' to activate the device. – managers side



Admin - Privacy Notice File

※ As the GDPR (General Data Protection Regulation) goes into effect in Western Europe, administrators for countries of Western Europe must upload their 'Privacy Notice' on this page



+ : New

🗑 : Delete