### 1. Safety Precautions

#### **1-1. Repair Precaution**

Before attempting any repair or detailed tuning, shield the device from RF noise or static electricity discharges.

Use only demagnetized tools that are specifically designed for small electronic repairs, as most electronic parts are sensitive to electromagnetic forces.

Use only high quality screwdrivers when servicing products. Low quality screwdrivers can easily damage the heads of screws.

Use only conductor wire of the properly gauge and insulation for low resistance, because of the low margin of error of most testing equipment.

We recommend 22-gauge twisted copper wire.

Hand-soldering is not recommended, because printed circuit boards (PCBs) can be easily damaged, even with relatively low heat. Never use a soldering iron with a power rating of more than 100 watts and use only lead-free solder with a melting point below 250°C (482°F).

Prior to disassembling the battery charger for repair, ensure that the AC power is disconnected. Always use the replacement parts that are registered in the SEC system. Third-party replacement parts may not function properly.



### 1. Safety Precautions

#### 1-2. ESD(Electrostatically Sensitive Devices) Precaution

Many semiconductors and ESDs in electronic devices are particularly sensitive to static discharge and can be easily damaged by it. We recommend protecting these components with conductive anti-static bags when you store or transport them.

Always use an anti-static strap or wristband and remove electrostatic buildup or dissipate static electricity from your body before repairing ESDs.

Ensure that soldering irons have AC adapter with ground wires and that the ground wires are properly connected.

Use only desoldering tools with plastic tips to prevent static discharge.

Properly shield the work environment from accidental electrostatic discharge before opening packages containing ESDs.

The potential for static electricity discharge may be increased in low humidity environments, such as air-conditioned rooms. Increase the airflow to the working area to decrease the chance of accidental static electricity discharges.



## 2-1. GSM General Specification

lte	em	GSM 850	EGSM 900	DCS1800	PCS1900
Freq. Ba	and[MHz]	824~849	880~915	1710~1785	1850~1910
Uplink/E	Downlink	869~894	925~960	1805~1880	1930~1990
ARFCN	N range	128~251	0~124 & 975~1023	512~885	512~810
Tx/Rx s	spacing	45MHz	45MHz	95MHz	80MHz
Mod. E	Bit rate/	270.833kbps	270.833kbps	270.833kbps	270.833kbps
Bit P	eriod	3.692us	3.692us	3.692us	3.692us
	ot Period/	576.9us	576.9us	576.9us	576.9us
Frame	Period	4.615ms	4.615ms	4.615ms	4.615ms
	GSM/	GMSK/	GMSK/	GMSK/	GMSK/
Modulation	EGPRS	8PSK	8PSK	8PSK	8PSK
MS F	Power	33dBm~5dBm	33dBm~5dBm	30dBm~0dBm	30dBm~0dBm
		4(GMSK)	4(GMSK)	1(GMSK)	1(GMSK)
Power Class		E2(8PSK)	E2(8PSK)	E2(8PSK)	E2(8PSK)
Sensitivity		-102dBm	-102dBm	-100dBm	-100dBm
TDM	A Mux	8	8	8	8



### 2-2. GSM Tx Power Class

TX Power Control level	GSM850	TX Power Control level	EGSM900	TX Power Control level	DCS1800	TX Power Control level	PCS1900
5	33±2 dBm	5	33±2 dBm	0	30±3 dBm	0	30±3 dBm
6	31±2 dBm	6	31±2 dBm	1	28±3 dBm	1	28±3 dBm
7	29±2 dBm	7	29±2 dBm	2	26±3 dBm	2	26±3 dBm
8	27±2 dBm	8	27±2 dBm	3	24±3 dBm	3	24±3 dBm
9	25±2 dBm	9	25±2 dBm	4	22±3 dBm	4	22±3 dBm
10	23±2 dBm	10	23±2 dBm	5	20±3 dBm	5	20±3 dBm
11	21±2 dBm	11	21±2 dBm	6	18±3 dBm	6	18±3 dBm
12	19±2 dBm	12	19±2 dBm	7	16±3 dBm	7	16±3 dBm
13	17±2 dBm	13	17±2 dBm	8	14±3 dBm	8	14±3 dBm
14	15±2 dBm	14	15±2 dBm	9	12±4 dBm	9	12±4 dBm
15	13±2 dBm	15	13±2 dBm	10	10±4 dBm	10	10±4 dBm
16	11±3 dBm	16	11±3 dBm	11	8±4 dBm	11	8±4 dBm
17	9±3 dBm	17	9±3 dBm	12	6±4 dBm	12	6±4 dBm
18	7±3 dBm	18	7±3 dBm	13	4±4 dBm	13	4±4 dBm
19	5±3 dBm	19	5±3 dBm	14	2±5 dBm	14	2±5 dBm
-	-	-	-	15	0±5 dBm	15	0±5 dBm



## 2-3. WCDMA General Specification

ltem	WCDMA2100(B1)	WCDMA1900(B2)	WCDMA AWS(B4)	WCDMA850(B5)	WCDMA900(B8)
Freq. Band[MHz] Uplink/Downlink	1920~1980 2110~2170	1850~1910 1930~1990	1710~1755 2110~2155	824~849 869~894	880~915 925~960
ARFCN range	UL: 9612~9888 DL: 10562~10838	UL: 9262~9538 DL: 9662~9938	UL: 1312~1513 DL: 1537~1738	UL: 4132~4233 DL: 4357~4458	UL: 2712~2868 DL: 2937~3088
Tx/Rx spacing	190MHz	80MHz	400MHz	45MHz	45MHz
Mod. Bit rate/ Bit Period	42.2Mbps(DL) 5.42Mbps(UL)	42.2Mbps(DL) 5.42Mbps(UL)	42.2Mbps(DL) 5.42Mbps(UL)	42.2Mbps(DL) 5.42Mbps(UL)	42.2Mbps(DL) 5.42Mbps(UL)
Time Slot Period/ Frame Period	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms
Modulation	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM
MS Power (dBm)	25.7 ~ -49(↓)	25.7 ~ -49(↓)	25.7 ~ -49(↓)	25.7 ~ -49(↓)	25.7 ~ -49(↓)
Power Class	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)
Sensitivity	-106dBm	-104dBm	-106dBm	-104dBm	-103dBm



## 2-4. LTE General Specification

Item	LTE Band1	LTE Band2	LTE Band3	LTE Band4
Freq. Band[MHz]	1920~1980	1850~1910	1710~1785	1710~1755
Uplink/Downlink	2110~2170	1930~1990	1805~1880	2110~2155
ARFCN range	UL:18000~18599	UL:18600~19199	UL:19200~19949	UL:19950~20399
ARECINITALINE	DL:0~599	DL:600~1199	DL:1200~1949	DL:1950~2399
Tx/Rx spacing (MHz)	190	80	95	400
Channel Bandwidth (MHz)	5/10/15/20	1.4/3/5/10/15/20	1.4/3/5/10/15/20	1.4/3/5/10/15/20
Modulation	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM
Modulation	256QAM(DL only)	256QAM(DL only)	256QAM(DL only)	256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm)	-96.3	-94.3	-93.3	-96.3

Item	LTE Band5	LTE Band7	LTE Band8	LTE Band17
Freq. Band[MHz]	824~849	2500~2570	880~915	704~716
Uplink/Downlink	869~894	2620~2690	925~960	734~746
ARFCN range	UL:20400~20649 DL:2400~2649	UL:20750~21449 DL:2750~3449	UL:21450-21799 DL:3450-3799	UL:23730~23849 DL:5730~5849
Tx/Rx spacing (MHz)	45	120	45	30
Channel Bandwidth (MHz)	1.4/3/5/10	5/10/15/20	1.4/3/5/10	5/10
Modulation	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity(QPSK, BW 10MHz)(dBm)	-94.3	-94.3	-93.3	-93.3

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Item	LTE Band20	LTE Band38	LTE Band40	LTE Band41
Freq. Band[MHz] Uplink/Downlink	832~862 791~821	2570~2620	2300~2400	2496~2690
ARFCN range	UL:24150~24449 DL:6150~6449	UL/DL:37750 ~ 38249	UL/DL:38650 ~ 39649	UL/DL:39650 ~ 41589
Tx/Rx spacing (MHz)	-41	0	0	0
Channel Bandwidth (MHz)	5/10/15/20	5/10/15/20	5/10/15/20	5/10/15/20
Modulation	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm)	-93.3	-96.3	-96.3	-94.3



## **3. Product Function**

#### **Main Function**

ltem	Description
OS	Android P OS V9.0
RF	
	3000mAh
Base Band	OCTA core (1.6GHz Dual + 1.35GHz Hexa)
Other RF	GPS, Glonass, Beidou, Galileo, BT5.0, USB 2.0, WIFI 802.11 b/g/n(2.4G), FM Radio
Camera	Rear : Dual Camera (Wide : 13M Dual A/F, F1.9 & Tele : 5M, F/F, F2.2 ) with LED Flash Front : 8MP CMOS 1/4"
LCD	5.83", HD+, 1560x720
RAM	3GB
Storage	32GB
Sensor	Accelerometer, Gyro Sensor, Geomagnetic Sensor, Hall Sensor, Proximity Sensor
Accessory	Charger: 5V/2A (AFC: 9V/1.67A) Data cable: 3.2pi, 0.8m(Type C/ USB-A) Ear phone: 3.5pi, 4pin



#### 6-1. S/W Update

#### 6-1-1. Preparation

- S/W Update program : Fenrir 5.17.xxxx
- Mobile Phone
- Data Cable

#### **\* Settings**





Data Cable : GH39-02002A



#### 6-1-2. How to use 'Fenrir' S/W update program.

1) Launch Fenrir by clicking on the icon on the desktop



- SVH (Fenrir\_Home) : It uses Home binary which does not have user data area in the memory when flashed to a device. (Keep user data)

- SVC (Fenrir\_Factory) : It uses Factory binary which erases all user data in the memory when flashed to a device. (Clear user data)

- SVA (Fenrir\_All) : It uses Factory and Home binaries. you can download Home and Factory binary in a PC(but requires double HDD storage and NW traffic)

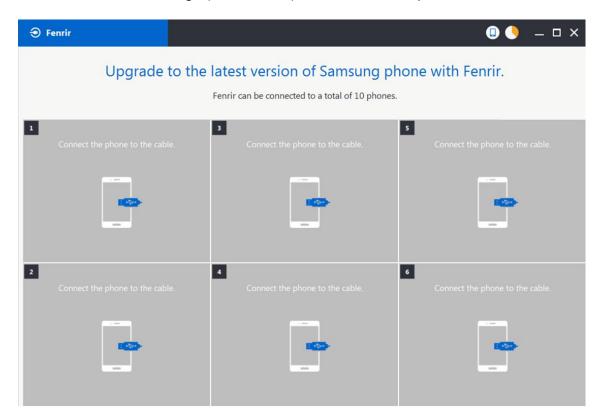
#### 2) Input ID & password

\* You need to reset the ID information in case of PC change and format and repair, hard disk change

⊕ Fenrir		×
Input the ID and password registered to the SAMSUNG Fenrir service.	ID: Password:	
		Proxy Login Close



3) Ensure device has sufficient charge (at least 20%) to start firmware update.



- 4) Connect the device to PC via data cable.
- 5) Upon USB connection, you will be presented with below screen.

Fenrir		N 🗊 🌖 🗕 🗆 X				
Upgrade to the latest version of Samsung phone with Fenrir. Fenrir can be connected to a total of 10 phones.						
1 Connecting to phone.	3 Connect the phone to the cable.	S Connect the phone to the cable.				
2 Connect the phone to the ca	4 Connect the phone to the cable.	6 Connect the phone to the cable.				

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6) Once device is detected, you will be presented with below screen. To update S/W, select "S/W Update" or to exit select "SVC Connection". If you select "SVC Connection", only Fenrir connection history (record) will be stored in the FUS server to support warranty validation. (This is known as "Service Connection" history)

€ Fenrir		□ 🌖 🗕 🗆 ×
Upgrade	to the latest version of Samsung Fenrir can be connected to a total of 10 pho	
1 Update to the latest version D1222165300gL2 XSG (3579 ) ( Sudawy Notek (SM-NS50F) Nugat(Android 7.1.1) Night/Android 7.1.1) Night/Android 7.1.1) Will begin after 8 seconds SVC Connection S/W 1	XM28QKG/N95	Connect the phone to the cable.
2 Connect the phone to the cab	e. Connect the phone to the cable.	6 Connect the phone to the cable.

7) Once Fenrir starts, application will display the below screen. And select the Start button & Agree button.

All data will be erased from the phone during the upgrade. Will you continue? Do not disconnect phone.	■ Fenrir Service terms and conditions. * Information about caution regarding data loss You are about to commence the upgrade of your mobile device software using Fenrir.All files and data on your mobile device must be backed up by you before continuing. You understand that use of Fenrir to upgrade your device's software may result in the loss of your files and data.Samsung and authorised third parties, where "Fenrir" is installed, shall not be liable for the loss of any files or data stored on your mobile device as a result of this
< Cancel Start >	< Cancel Agree >



8) The status circle increases as the update installs. The update process takes approximately 5-10 minutes to complete. Do not disconnect the device from USB during processing.

Fenrir		💷 🌖 🗕 🗆 ×
Upgrade	to the latest version of Samsung ph Fenrir can be connected to a total of 10 phones.	
1 Running upgrade Do not disconnect phone. D1222165552ygx XSG 3579 Galay Notel (SM: N050F) Nougat(Ardioid 7.1.1) N5507XU28QKG/N950FXXU2		S Connect the phone to the cable.
2 Connect the phone to the cab	e. Connect the phone to the cable.	Connect the phone to the cable.

9) Once complete, application will present the below screen indicating update complete. Click Ok and detach device from USB.

Fenrir		□ 🌖 🗕 🗆 ×
Upgrade	to the latest version of Samsung p Fenrir can be connected to a total of 10 phones	
1 Upgrade finished. Disconnect phone. D1222165552ygx XSG 35797 Galaya Notes (M-N950F) Nougat(Android 7.1.1) Nospir/X0128Q/KG/N950F)X0121 OK >		S Connect the phone to the cable.
2 Connect the phone to the cabl	e. Connect the phone to the cable.	Connect the phone to the cable.

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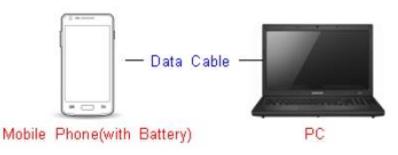
#### 6-2. How to use 'Odin' program

S/W Update via Fenrir is mandatory.Below is the method to use 'Odin' program in any specific case.

## 6-2-1. Preparation

- Installation program : Odin3 v3.13.2.exe or above
- Mobile Phone
- Data Cable
- S/W Binary files (downloaded from GSPN)

#### **※** Settings





Data Cable : GH39-02002A



#### 6-2-2. S/W Installation Program (Downloader program)

Open up the S/W Installation Program by executing the "Odin3 v3.13.2.exe"

📮 Odin3 v3.13	
Odin3	
ID:COM	
Log Options Pit	Tips - How to download HOME binary OLD model : Download one binary "(BUILD_VER)_XXX_HOME.tar.md5" ex) G925FXXU3DPA5_G925F0XA3DPA5_G925FXXU3DPA5_HOME.tar.md5 NEW model : Download BL + AP + CP + HOME_CSC
	BL
	AP
	СР
	CSC
	USERDATA
	Mass D/L ►
	Start Reset Exit
Odin Community : <u>http://mobilerndhub.sec.samsung.net/hub/site/od</u>	lin/

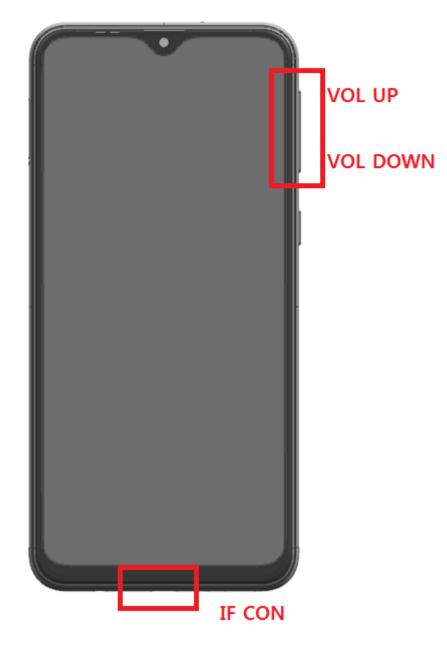


- 1. Enable the check mark by click on the following options
- Check Auto Reboot, F. Reset Time, Nand Erase
- Check BL, AP, CP, CSC Files
- \* Note : "Odin v3.13.2 or above" checks MD5 checksum just after file selection.

📮 Odin3 v3.13	
Odin3	
ID:COM	
Log Options Pit	Tips - How to download HOME binary OLD model : Download one binary "(BUILD_VER)_XXX_HOME.tar.md5" ex) G925FXXU3DPA5_G925FOXA3DPA5_G925FXXU3DPA5_HOME.tar.md5 NEW model : Download BL + AP + CP + HOME_CSC
<ul> <li>Nand Erase</li> <li>Re-Partition</li> </ul>	BL 3960FXXU1ARB7_CL13087450_QB17004700_REV01_user_low_ship.tar.md5
✓ F. Reset Time	XXU1ARB7_CL13087450_QB17004700_REV01_user_low_ship_meta.tar.md5
DeviceInfo	CP #HDILd2I#CP_G960FXXU1ARB7_CL717541_QB8985489_SIGNED.tar.md5
	CSC 960FOXM1ARB7_CL13087450_QB17004700_REV01_user_low_ship.tar.md5
	USERDATA
AutoStart -  Reboot download if possible	Mass D/L ►
	Start Reset Exit
Odin Community : <u>http://mobilerndhub.sec.samsung.net/hub/site/od</u>	lin/



- 2. Enter into Download Mode
- To enter into Download Mode, insert USB cable into Smart phone and connect to computer And pressing Volume Down + UP button simultaneously followed by pressing Volume up button as a direction of the phone.





3. Connect the device to PC via Data Cable.

Make sure that the one of communication ports [ID:COM] box is highlighted in sky blue. The device is now connected with the PC and ready to download the binary files in it.

📮 Odina v3.13	
Odin3	
ID:COM	
0:[COM3]	
Log Options Pit <pre>     COSM&gt; Please wait     </pre> <pre>     COSM&gt; Checking MD5 finished Sucessfully     </pre>	Tips - How to download HOME binary OLD model : Download one binary "(BUILD_VER)_XXX_HOME.tar.md5" ex) G925FXXU3DPA5_G925FOXA3DPA5_G925FXXU3DPA5_HOME.tar.md5 NEW model : Download BL + AP + CP + HOME_CSC
<pre><osm> Leave CS <osm> Enter CS for MD5 <osm> Enter CS for MD5 <osm> Check MD5 Do not unplug the cable</osm></osm></osm></osm></pre>	BL 3960FXXU1ARB7_CL13087450_QB17004700_REV01_user_low_ship.tar.md5
<osm> Please wait <osm> Checking MD5 finished Sucessfully <osm> Leave CS</osm></osm></osm>	AP XXU1ARB7_CL13087450_QB17004700_REV01_user_low_ship_meta.tar.md5
<osm> Enter CS for MD5 <osm> Check MD5 Do not unplug the cable <osm> Please wait</osm></osm></osm>	CP #비미너리♥CP_G960FXXU1ARB7_CL717541_QB8985489_SIGNED.tar.md5
<pre><osm> Checking MD5 finished Sucessfully <osm> Leave CS <osm> Enter CS for MD5</osm></osm></osm></pre>	CSC 960FOXM1ARB7_CL13087450_QB17004700_REV01_user_low_ship.tar.md5
<osm> Check MD5 Do not unplug the cable <osm> Please wait <osm> Checking MD5 finished Sucessfully</osm></osm></osm>	USERDATA
<pre><osm> CiteWing MDS initialized Successfully <osm> Leave CS <id:0 003=""> Added!! <id:0 003=""> Removed!!</id:0></id:0></osm></osm></pre>	Mass D/L
<d:0 003=""> Added!!</d:0>	Start Reset Exit
Odin Community : <u>http://mobilerndhub.sec.samsung.net/hub/site/od</u>	in/



4. Start downloading the binary files into the device by clicking Start button on the screen.

The green colored "PASS!" sign will appear on the upper-left box if the binary files have been successfully downloaded into the device.

쿠 Odin3 v3.13		
Odin3		
PASS!		
ID:COM		
	Tips	ps - How to download HOME binary
Log Options Pit		OLD model : Download one binary "(BUILD_VER)_XXX_HOME.tar.md5"
<pre><id:0 003=""> system.img <id:0 003=""> vendor.img <id:0 003=""> demdbg.img <id:0 003=""> userdata.img <id:0 003=""> modem.bin <id:0 003=""> Transmission Complete</id:0></id:0></id:0></id:0></id:0></id:0></pre>		ex) G925FXXU3DPA5_G925FXXU3DPA5_G925FXXU3DPA5_HOME.tar.md5 NEW model : Download BL + AP + CP + HOME_CSC BL \$960FXXU1ARB7_CL13087450_QB17004700_REV01_user_low_ship.tar.md5
<id:0 003=""> Now Writing Please wait about 2 minutes <id:0 003=""> Receive Response from boot-loader</id:0></id:0>		XXU1ARB7_CL13087450_QB17004700_REV01_user_low_ship_meta.tar.md5
<id:0 003=""> modem_debug.bin <id:0 003=""> Transmission Complete <id:0 003=""> Now Writing Please wait about 2 minutes</id:0></id:0></id:0>		CP #HOIL121#CP_G960FXXU1AR87_CL717541_Q88985489_SIGNED.tar.md5
<id:0 003=""> Receive Response from boot-loader <id:0 003=""> cache.img <id:0 003=""> omr.img</id:0></id:0></id:0>		CSC 960FOXM1ARB7_CL13087450_QB17004700_REV01_user_low_ship.tar.md5
<id:0 003=""> odm.img <id:0 003=""> hidden.img</id:0></id:0>		USERDATA
<id:0 003=""> RQT_CLOSE !! <id:0 003=""> RES OK !! <id:0 003=""> Remain Port 0 <id:0 003=""> Removed!!</id:0></id:0></id:0></id:0>	=	Mass D/L ►
<osm> All threads completed. (succeed 1 / failed 0)</osm>	•	Start Reset Exit
Odin Community : <u>http://mobilerndhub.sec.samsung.net/hub/s</u>	ite/odin/	

5. Disconnect the device from the Data cable.

6. Once the device boots up, you can check the version of the binary file or name by pressing the following code in sequence; **\*#1234#** 

You can perform Factory data Reset by Settings  $\rightarrow$  General Management  $\rightarrow$  Reset

#### **\*** Caution. Never disconnect during the S/W downloading.



### 6-3. IMEI writing

#### 6-3-1. Preparation

- New IMEI writing Program has been released.
- Supported Model : Models which CAB files are uploaded on HHPsvc INI File category, instead of ini file.
- Refer to below IMEI writing procedure.

#### - H/W



#### - S/W

① Library Install	To use Daseul, library files should be installed. Refer to SVC Bulletin "(11-82) Daseul (New IMEI writing Program) Library Install guide_rev1.0"
2 Launcher	DASEUL_SVC_Launcher_v3.0.12 or higher -Uploaded on HHPsvc Notice
③ Runtime File	<ol> <li>DASEUL_IMEI_ALL_Runtime_3.1.348.0_r00519.CAB or higher</li> <li>-Uploaded on HHPsvc Notice</li> <li>Make 'SM-A202F' folder at the same position with launcher &amp; Runtime file.</li> </ol>
	DASEUL_IMEL_ALL_Runtime_3.1.348.0_r00519.CAB         A DASEUL_Launcher_v4.0.0.exe         SM-G960F_SS(CSC)_IMEL_Ver_3.1.343.10.CAB
④Model File	Copy Model File under the 'SM-A202F' folder

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## 6-3-2. IMEI writing Process

1. Run DASEUL_SVC_La	
2. Select Service Mode	
A DASEUL Launcher for Service Ver 3.0.10	22
< Launcher Status >	MDDE : Service -
No. Processing  1 ::: Start Normal Mode for Service :::	Status Complete
- Select: Extract Process-	
SMD F/T       PBA F/T       Calibration       CAL 2nd       Fnal Auto       Fnal 2nd       IMEI       WLAN       GPS       B T	Extract & Run
3. Click and Select for A DASEUL Launcher for Service Ver 3.0.10 < Launcher Status >	older where the Launcher exists
No. Processing	MODE : Service - Status
1 ::: Start Normal Mode for Service :::	Complete
물더 찾아보기 Select Model Path	
Select Extract Process [MODEL] Runtime SMD F/T Calibration CAL 2nd Final Auto Final Auto GoPS B T	
	Extract & Run Cose

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MODE : Service +
etc. Extract Trees Model Name       Sustain Sustain         SND FYT       Sustain Sustain         SUSU       Su
I Model Name       Settem Setting         SMD F/T       Settem Setting         SMD F/T       Calibration         Final Auto       Calibration         Sintal Auto       Sintal Auto         Sintal Auto       Sintal Auto         Sintal Auto       Complete         Sintal Auto       Complete         Sintal Auto       Complete         Sintal Auto       Complete         Sintrating DASCIL_Run
I MODEL J       Wodel Name       Statum Settline         SND F/T       Final Auto       Final Auto         Calibration       Extract & Run       Cose         Check IMEI and click System Settling       Extract & Run       Cose         Check IMEI and click System Settling       Final Auto       Final Auto         Check IMEI and click System Settling       Cose       Cose         Cose       Cose       Cose       Cose         Cose       Cose       Cose       Cose         Cose       Cose       Cose       Cose         Cose       Cose       Cose       Cose
I MODEL J       Wodel Name       Statum Settline         SND F/T       Final Auto       Final Auto         Calibration       Extract & Run       Cose         Check IMEI and click System Settling       Extract & Run       Cose         Check IMEI and click System Settling       Final Auto       Final Auto         Check IMEI and click System Settling       Cose       Cose         Cose       Cose       Cose       Cose         Cose       Cose       Cose       Cose         Cose       Cose       Cose       Cose         Cose       Cose       Cose       Cose
I MODEL J       Wodel Name       Statum Settline         SND F/T       Final Auto       Final Auto         Calibration       Extract & Run       Cose         Check IMEI and click System Settling       Extract & Run       Cose         Check IMEI and click System Settling       Final Auto       Final Auto         Check IMEI and click System Settling       Cose       Cose         Cose       Cose       Cose       Cose         Cose       Cose       Cose       Cose         Cose       Cose       Cose       Cose         Cose       Cose       Cose       Cose
I Model Name       Settem Setting         SMD F/T       Settem Setting         SMD F/T       Calibration         Final Auto       Calibration         Sintal Auto       Sintal Auto         Sintal Auto       Sintal Auto         Sintal Auto       Complete         Sintal Auto       Complete         Sintal Auto       Complete         Sintal Auto       Complete         Sintrating DASCIL_Run
Finduction       Image: Service Ver 30.10         Check IMEI and click System Setting         Ince you setup the setting, you don t have to do it again, unless there is change.         momenter for Service Ver 30.10         Descend run of the IMEI program, check IMEI and click Extract & Run.         Descend run of the IMEI program, check IMEI and click Extract & Run.         Descend run of the IMEI program, check IMEI and click Extract & Run.         Descend run of the IMEI program, check IMEI and click Extract & Run.         Descend run of the IMEI program, check IMEI and click Extract & Run.         Descend run of the IMEI program, check IMEI and click Extract & Run.         Descend run of the IMEI program, check IMEI and click Extract & Run.         Descend run of the IMEI program, check IMEI and click Extract & Run.         Descend run of the IMEI program, check IMEI and click Extract & Run.         Descend run of the IMEI program, check IMEI and click Extract & Run.         Descend run of the IMEI program is run is review         No Processing       Status         1       Kil rogram         2       Complete         3       Extracting DASCUL_Runtime_Ver_3.1.126.2.CAB File complete
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PBA F/T
PBA F/T         Calbaton         CAL 2nd         Final Auto         IMEL         MEL         WLAN         GPS         B T         Check IMEI and click System Setting         Check IMEI and click System Setting         nce you setup the setting, you don t have to do it again, unless there is change.         m second run of the IMEI program, check IMEI and click Extract & Run.         NAEUL Launcher for Service Ver 3030         Examples         No         Processng         1 Kil Program         2 Greate DASEUL Function         1 Kil Program         2 Greate DASEUL Function         1 Kil Program         2 Greate DASEUL Function         2 Greate DASEUL Function
Calibration CAL 2nd Final Auto Final Auto Get HY7000_COMMON(CSC166]_IMEL_Ver_3.1.99.8.CA8 IMEL UNLAW Get S T Check IMEI and click System Setting Check IMEI and click System Setting These you setup the setting, you don t have to do it again, unless there is change. These you setup the setting, you don t have to do it again, unless there is change. These you setup the setting, you don t have to do it again, unless there is change. These you setup the setting the image of
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Final 2nd       Immediately the setting         IMEL       GT-H7000_COMMON((SSC186)_IMEL_Ver_3.1.99.8.CAB         WILAN       GPS         BT       Extract & Run         Check IMEI and click System Setting         Check IMEI and click System Setting         nce you setup the setting, you don t have to do it again, unless there is change.         m second run of the IMEI program, check IMEI and click Extract & Run.         NASEUL Launcher for Service Ver 30.10         Launcher Status >         MODE :         Service         1         MI Program         2. Orset DASEUL Directory         3       Extracting DASEUL_Runtme_Ver_3.1.126.2.CAB Fle
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Felect Extract Process
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SMD F/T
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Calibration
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Final Auto
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6. Check IMEI Write / IMEI Check a	and click IMEI SVC & Repair C	Dption.
🚓 Set System C	onfiguration	X
Set System Configuration Dialog.		
Test Process Test Condition	System Config.	
[Process] [Master] [Slave] Calibration SMD F/T Real CAL Cycle:	Language Eng	dish Model Information
PBA F/T		E(temp)
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Calibration 2ND Calibration 2ND Calibration 2ND Calibration 2ND CAL2nd Mode :		art Cloud Cell
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IMEL Write	of UI 1	LOSS
MDL+2nd Chect	Correction Count Start Number 1	Calibration
MDL Rework		.244.246.156
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BT IMEI Use RFSM		End Band
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Bluetooth  Save ODS	Operation Operation	RUN Engine Freq.
LCIA Merge Felica Merge 2G3G Block Rad. OQC Reset	Cal Condition	SeeLog
IBI Reset		Repair Option OK
Process Order		
7. Check 'SVC , User Ticket No' an	d click OK	
*		
IMEI SVC && Repair Option		23
FTR N/A V Re	work N/A 🚽 🗖 Ko	rean SVC Write
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SVC User Ticket No 🗸		cal FOTA Check
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Set System Configuration         Set System Colliguration Dulation         Set System Colliguration Dulation         Set System Colliguration Dulation         Set System Colliguration Dulation         Set System Colliguration	Click 'Hardware Co	nfig'		
First Process       Measter       Silver         Process       Measter       Silver         SND F/T       Calibration       Calibration         SND F/T       Calibration       Calibration         SND F/T       Calibration       Calibration         SND F/T       Calibration       Calibration         Find Atron       Calibration       Calibration         Find Atron       Calibration       Ford         PEC Order       Ford       Calibration         PEC Order       Ford       Spanie         PEC Order       Ford       Spanie         PEC Order       Ford       Calibration         PEC Order       Ford       Spanie         PEC Order       Ford       Calibration         PEC Order       Ford       Calibration         Perf       Devetor       Calibration         Devetor       Devetor       Calibration         De			tion	
Processi       Plasteri       Colorador on every         SMD F/T       Edication       Colorador on every         PEA F/T       Edication float       Colorador on every         Peak F/T       Edication float       Signal fly conduction         Peak F/T       Edication float       Sign		and the second	System Config.	
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Find Auto       Image: Control Mode: Operation         PMEI Process       Image: Control Trype         PMEI Write       Image: Control Trype         PMEI Write       Image: Control Trype         PMEI Read       Image: Control Trype         WLAN       Image: Control Trype         PMEI Read       Image: Control Trype         WLAN       Image: Control Trype         PMEI Read       Image: Control Trype         WLAN       Image: Control Trype         PMEI Read       Image: Control Trype         WLAN       Image: Control Trype         PMEI Read       Image: Control Trype         VLAN       Image: Control Trype         PMEI Read       Image: Control Trype         VLAN       Image: Control Trype         PMEI Read       Image: Control Trype         VLAN       Image: Control Trype         PMEI Read       Image: Control Trype         VLAN       Image: Control Trype			Line Type Block Cell	
Final Manual       Image: Signal Mode:		Calibration Mode : Dynamic 🖉	# of Phone 1	
Bill Process       Image: Second PC         MEL Write       Image: Second PC         WLAN       Image: Second PC         Bill Write       Image: Second PC         Save ODS       Image: Second PC         Second PD       Image: Second PC         Second PD       Image: Second PC		- Final		Simili res
MEI Write       Image: Stand Mode:	States and the states of the s			Config.
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Image: Non-Angle of the second PC         Bluetooth         Bluetooth         Operation Condition         If Type         If Ty	.+2nd Check 🔲 🔲	Test Signal Mode : Signaling	]	
WLAN       Imel       Use RFSM       Operation Condition         Power Off-On before WLAN       WLAN       Operation Condition       Operation Condition         Buetooth       WE       WE       Operation Condition       Operation Condition         Operation Condition       Operation Condition       Operation Condition       Operation Condition         If - 1 Type       Operation Condition       Operation Condition       Operation Condition       Operation Condition         If - 1 Type       Fort Setting       Fort Setting       Powere Condi Setting       Operation Condi Settin	. Rework	Developer Mode		
WLAN       Due RFSM       Use Second PC         Bivetooth:       Second PC       Second PC         Save ODS       Second PC       Second PC         Second PC       Second PC       Second PC         Second PC       Second PC       Second PC         Controller Type, IO Bus Type, Port Setting.       Second PC       Second PC         Phone       Control Type, Port Setting.       PBMS       From Power Port Setting         If - 1 Type       For Section       For Section       Power Section         If - 1 Type       For Section       For Section       Power Control Type IV/A       Power Port Section         If - 2 Type       Port Section       For Section       Power Section       Power Section         If - 1 Type       For Section       Port Section       Port Section       Power Section         If - 1 Type       For Section       Port Section       Power Section       Power Section         If - 1 Type       For Section       Power Supply       Power Supply       For Section	IRead 🗆			Delibration
Power Off-On before WLAN Bluetooth Use Second PC Save ODS WEI pair Operation Condition Operation Condition Operation Condition OK OK OK OK OK OK OK O				$\leq$
Bluetooth  Save ODS  WEI SVC&Repair Operation				Satticity
Save OUS       Image: Constitution of the setting of th	_			Loo Band
SVC&Repair Option       OK         October Setting'       OK         Click 'Port Setting'       Hardware Component Configuration Controller Type, IO Bus Type, Port Setting.         Phone Count       Image: Controller Type, IO Bus Type, Port Setting.         Phone Count       Image: Count Original Controller Count       Image: Count Original Controller Count Original Control Type       DBMS         If F 1 Jig Type       Image: Count Original Control Type         If F Jig Type       Image: Count Original Control Type         If F Jig Type       Robot / ShieldBox       Image: Count Original Control Type         If B Jig Type       Robot / ShieldBox       Image: Count Original Control Type         If B Jig Type       Image: Count Original Control Type         Use ID Check JIG       Image: Count Origina Count Ori	etooth	Save ODS	Operation Condition	
Startepart       Condition       OK         Occurrent option       OK         Click 'Port Setting'       Hardware Component Configuration         Controller Type, IO Bus Type, Port Setting       Phone         Controller Type, IO Bus Type, Port Setting       Server         Phone       WSTS Sharing Controller       Server         Control Type, IO Bus Type, Port Setting       Server         Phone       WSTS Sharing Controller       Server         Control Type       N/A       Fort Setting         IF - 2 Type       N/A       Fort Setting         IF Type       Server       HOME(GLMII)       Function         IF - 2 Type       N/A       Fort Setting       N:DAQ         IF Type       Server       HOME(GLMII)       Function         IF Type       Server       HOME(GLMII)       Function         IF Type       Fort Setting       N:DAQ       Deat Setting         IF Type       Fort Setting       N:DAQ       Deat Setting         IF Type       Fort Setting       WES PN Sender       WSD F/T         IF Type       IF Type       IF Type       Port Setting       SMD F/T         Out       IF Type       Prot Setting       Fort Setting       Fort Set			Oneration	
Click 'Port Setting'          Phone       MSTS Sharing Controller         Count       Image: Count of type. Not Setting:         If - 1 Type       MSTS Sharing Controller         Count       Image: Count of type. Not Setting:         If - 2 Type       If Type         If Jig Type       Robot / ShieldBox         Control Type. NA       If Type         If Type       Service         If Type       Port Setting         MSTS       If Type         If Type       Port Setting         If Type       Port S				
Mardware Component Configuration         Controller Type, IO Bus Type, Port Setting         Phone         Count         I         I         I         I/F - 1 Type         Server         I/F - 2 Type         I/F - 2 Type         I/F - 2 Type         I/F - 2 Type         I/F oft Setting         I/F type         Server         I/F type         Robot / ShieldBox         I/F type         Serial COM         I/F type         Serial COM         I/F type         Serial COM         I/F type         Port Setting         NES PN Sender         Type         I/F type         I/F type         I/F type         I/F type         I/F type         I/F type		Copition		OK
Mardware Component Configuration         Controller Type, IO Bus Type, Port Setting         Phone         Count         I         I         I         I/F - 1 Type         I/F - 2 Type         I/F Type         Server         Control Type         I/F Type         Server         Port Setting         MES PN Sender         Type         I/F Type <tr< th=""><th></th><th></th><th></th><th><u>)</u>.</th></tr<>				<u>)</u> .
Mardware Component Configuration         Controller Type, 10 Bus Type, Port Setting         Phone         Count       Image: Control Type         If F - 1 Type       Image: Control Type         If F - 2 Type       NIA         If Type       Server         If Type       Outside-Socket         If Type       NA         If Type       Port Setting         If Type       Notot / ShieldBox         Control Type       N/A         If Type       Service         If Type       Port Setting         If Type       Notot / ShieldBox         Control Type       N/A         If Type       Service         If Type       Service         Pott Setting       Power         If Type       Service         If Type       Service         If Type       Service         Pott Setting       Port Setting         MSTS       Power Supply         If Type       Power Supply         If Type       Power Supply         If Type       Power Supply         If Type       PIB         If Type       PIB         If Type       PIB	Niek (Dert Setting)			
Count       I       I       Count       I       I       Image: Count       I	Controller Type, IO Bu	us Type, Port Setting,		х F/T
I/F - 1 Type Serial COM   I/F - 2 Type N/A   I/F - 2 Type N/A   I/F Type Serial COM   Port Setting I/F Type   IF Jig Type AnyWayJig   Robot / ShieldBox   Control Type N/A   Type N/A   I/F Type Serial COM   Port Setting Port Setting   MSTS Power Supply   Count I/F Type   I/F Type GPIB				instan (
I/F - 2 Type       N/A       I/F Type       Serial COM       I/F Type       Barcode Reader       Power       Port Setting         I/F Jig Type       AnyWayJig       Robot / ShieldBox       Type       N/A       I/F Type       Port Setting         I/F Jig Type       AnyWayJig       Robot / ShieldBox       Type       N/A       I/F Type       Port Setting         I/F Type       Serial COM       I/F Type       Serial COM       Port Setting       Port Setting         MSTS       Power Supply       Power Supply       I/F Type       Port Setting       MES PN Sender       SMD F/T         Type       N/A       I/F Type       GPIB       I/F Type       Port Setting       Port Setting	- 1 Type Serial COM		T	
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Port Setting       Terminal       Part Setting         IF Jig Type       AnyWayJig       Robot / ShieldBox         Control Type       N/A       I/F Type         I Use ID Check JIG       Port Setting         MSTS       Power Supply         Count       I/F Type         I/F Type       GPIB         I/F Type       GPIB		I/F Type Serial COM		Power
IF Jig Type AnyWayJig  Robot / ShieldBox Control Type N/A I/F Type Serial COM Port Setting MSTS Count O I/F Type GPIB I/F Type G	Port Setting	Terminal Port Setting	D	
Control Type       N/A         I/F Type       Serial COM         I/F Type       Serial COM         Port Setting         MSTS         Count       I/F Type         I/F Type       GPIB         I/F Type       GPIB	Jig Type AnyWayJig T		Туре ИЛА - Н	DMI JIG Port Setting
I/F Type     Serial COM       MSTS     Power Supply       Count     I/F Type       I/F Type     GPIB         Mess PN Sender       Type     N/A       B'd Address     5       Port Setting     Port Setting			/F Type Serial COM 💌	
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MSTS Count 0 I I/F Type GPIB I FORT Setting Port Setting Port Setting Port Setting	Use ID Check JIG	I/F Type Serial COM		
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I/F Type GPIB  Port Setting Port Setting	s I I	Power Supply	Туре N/А 👻 Тур	e N/A 💌
I/F Type GPIB Rort Setting	unt 0 💌	and the second	B'd	Address 5
		LE Type CPIB	Port Setting	
Port Setting	Tues COTR			( rule bound
		Port Setting		
Part-Setting	Part Setting			SAVE
Cancel				Cancel

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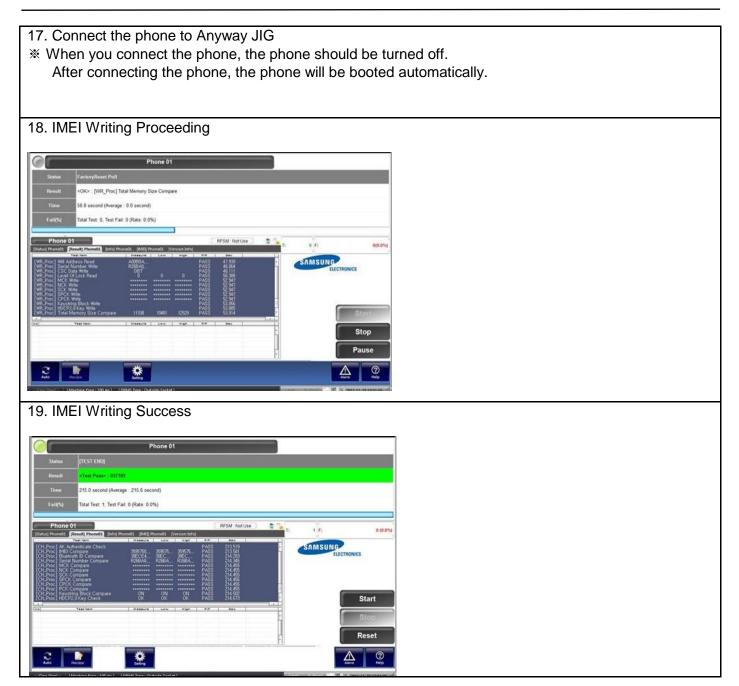
0. Select Port Number and SAVE	
Set IO BUS Configuration	
Phone IO Bus Setting	
Common	Port #1
BaudRate 115200 V	
Data Bit 8 💌	
Parity No 🔽	
Stop Bit	
	SAVE
	Cancel
1.Click OK to proceed	
📸 🛛 Set System Configura	ation 🔊
Set System Configuration Dialog	
Test Process	System Config.
[Process] [Master] [Slave] Real CAL Cycle: on every SMD F/T  20 46fault c	Information
PBA F/T	Line Type Block Cell V Hardware
Calibration   Calibration Mode : Dynamic	# of Phone 1 Config
Final Manual	Start Number
IMEI Process	of Jig 1
IMEI Check 🔽 🗌	IP Address 10.244.114.62
MDL+2nd Check  MDL +2nd Check  MDL Rework  MDL Here R	
IMEI Read	ASTS Culturation
WLAN T Use RFSM	
Power Off-On before WLAN	E dand
	Operation Condition
IMEI SVC&Repair	Operation Condition
Option	ОК
COMTECH	
Computer Technology	
منبع مقاله tamiraat.com	

12. Click Model Info and OK when pop-up shows	
Process         IME1Write(M) - IME1Check(M) Service           PGM Ver         DASEUL_v3.1213.0 / IME1(r00338)	
Phone 01	
Status Press [START ALL] Button!!!	
Result None	
Time 0.0 second (Average : 0.0 second)	
Fail(%) Total Test: 0, Test Fail: 0 (Rate: 0.0%)	
Phone 01 RFSM : Not Use : C F: 0 F: 0(0.0%)	
IMELNUm(Stave) - SN Num ELECTRONICS	
KEPersonal Lock     Lock Setting     Apply	
Code Field Network UnLock Key Subset UnLock Key	
SP UnLock Key Model Start	
Stop	
Reset	
Auto Recipe Setting Test tem HW Setting Setting(Etc.) Etc. Et no. Data	
Auto Recipe Setting Test Item HW Setting Stitling[Elc.] Etc FUIC Data Asarm Help :: [One Step] :: [Machine Freq: 100 ms] [DBMS Type : Outside-WebSVC] Level: [01-Error] [ 20 K R 2016-07-06 16:53:28	
13. Click OK	
About ComponentOne VSFlexGrid8 (Light)	
Component	
ComponentOne	
ComponentOne VSFlexGrid8 (Light) Version: 8,0,20101,261	
This dialog box will not be shown if you recompile	
the program using a licensed version of this	
Online         http://www.componentone.com         Check for online	
Newsgroup Web store Resellers	
For email support, please write to: <u>support, vsflex@componentone.com</u>	
Contact Us ComponentOne Technical	
This product included in ComponentOne Studio(tm)         Copyright © 2001, 2010 ComponentOne LLC, All rights reserved,	

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14. Input SKU_CODE and BUYER, then click Save button.	
※ Refer to HHPsvc→IMEI Review to check SKU Code and buyer	
IMEI Writing Items	
CSC	
PDA Software2	
LPD Contents	
DMB	
SKU_CODE	
BUYER	
Material_Code	
Boot Factory Software	
FactoryReset+Check	
🔽 Pre Product 🗌 Main Repair 💭 Don't DB Upload	
Cond Func Test (AT&T)     Sub PBA Repair(Grip)     Packing Rework     SMD Test NV Write     Tizen Download	
Lock Write (OQC)     SMD Test NV Write     International     More after Pwr Reset     WIFI Addr., Init     Android Download	
Use Fulltest(SW Verification) High Speed Boot Skip S-PEN is not inserted(Seed)	
Wait for Reboot in SVC Check 🗌 Recent List Check(OQC&IBI) 🦳 Check IMEI Dupli [RB]	
Save Load Cancel	
45 Innut IMEL Number and click Apply	
15. Input IMEI Number and click Apply	
Phone 01	
Status Press [START ALL] Button!!!	
Result None	
Time 0.0 second (Average : 0.0 second)	
Fail(9/) Tatal Task 0, Task Fail: 0, (Data: 0,0%)	
Fail(%) Total Test: 0, Test Fail: 0 (Rate: 0.0%)	_
UN : -	-
U/N : - Phone 01 RFSM : Not Use 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(0.0%)
UN : - Phone 01 RFSM : Not Use T: 0 F:	(0.0%)
UN : - Phone 01 RFSM : Not Use T: 0 F: T: 0 F: T: 0 F: MEI Num	(0.0%)
UN:-       Phone 01       IRESM: Not Use       Image: Status Phone01 Infol Phone01 Infol Phone01 (Version Info) (Fail) All         IStatus Phone01 (Result Phone01 Infol Phone01 (Version Info) (Fail) All       Image: Status Phone01 Infol Phone01 Infol Phone01 (Version Info) (Fail) All         IMEL Num,       -       -       -         IMEL Num,       -       -       -         IMEL Num,       -       -       -	0.096)
UN:- Phone 01 RFSM:Not Use: T: F:	(0.0%)
UN:- Phone 01 RESM: Not Use T: 0 F:  Status! Phone01 [Info] Phone01 [IME] Phone01 [Version Info] [Fail] All IME! Num; Apply Lock Setting Code Field Network UnLock Key	(0.0%)
Phone 01     RFSM: Not Use       IStatus! Phone01     Infol Phone01       IMEI Num     -       IMEI Num <td< th=""><td>(0.0%)</td></td<>	(0.0%)
Phone 01     RFSM: Not Use       Istatusi Phone01     Infol Phone01       INEl Num,     -       IMEL Num,     -	(0.0%)
Phone 01     RFSM: Not Use       IStatus! Phone01     Infol Phone01       IMEI Num     -       IMEI Num <td< th=""><td>(0.0%)</td></td<>	(0.0%)
Phone 01     RFSM: Not Use       Istatus! Phone01     Infol Phone01       Infol Phone01     Inf	
UN:-         Phone 01         Istatusi Phone01       (Info) Phone01         Istatusi Phone01       (Info) Phone01         Imel Num       -	
Phone 01       RFSM: Not Use         Istatusi Phone01       Infol Phone01         INEI Num       -         INEI Num       SIN Num         INEI Num       -         INE Num       - <t< th=""><td></td></t<>	
Phone 01       RFSM: Not Use         Status! Phone01       Infol Phone01         INE! Num       INE! Num         INE! Num       INE! Num <tr< th=""><td></td></tr<>	
UN:-         Phone 01         Istatusi Phone01       (Info) Phone01         Istatusi Phone01       (Info) Phone01         Imel Num       -	

6. (1) Click Start $\rightarrow$ (2)Input IMEI writing ID and Password & OTP $\rightarrow$ (3)Input Ticket
DASEUL - GT-A7700 [IB: / Permission: Operator.]
Model Name HWWYer REV0.7A SKU GT.4/2000/28ADBT IDB.Serv HOME/GUMIJ Cell Type Block Cell BW Ver N7000UBKJ9 CSC N7000TFGKJ7 Birger DBT IPC NO. 1'st GM Ver DASEUL_v2.2.3673.49 Process MICTWINE(M. MET Check(M)
Phone 01
Status Press [START ALL] Burnon!!!
Result         Nene           Time         0.0 second (Average : 0.0 second)
Finil(%)         Total Test: 0, Test Fail: 0 (Rate: 0.0%)           5vC togin         5vC
Phone 01
Satura Phonodi (Result Phonodi (Info) (Phonodi (Info) MEINum, 200575 - C4 - 037105 4 2 PASSWORD
McEversonal Lock     orp     it       Code Stelling     etc.     etc.       Code Stelling     etc.     etc.       Network Uhlack Kay     etc.     etc.
Subset UnLock Key SP UnLock Key Master Key Ticket No
① Start
3 Toletho Stop
OK CANCE Reset
Auro Reice Estin
The Stell -   Machine Sten 100 ms1 - COBMS Street Outside Socket1
※ OTP(One time Password) : OTP is valid for 6 hours.
After that, you can get new OTP by click the "Forgotten your IMEI OTP PW or Crete new IMEI OTP PW" button.
cice in wind off i wooddon.
HTP SVC > HHP SVC HOME
HHP svc DRM Client Download (for NASCA ActiveX / for NASCA 32Bit OS / for NASCA 64Bit HOME OS / for Non-NASCA 32(64Bit OS)
IMELOTP PASSWORD : Not available Forgotten your IMELOTP PW or Create new IMELOTP PW
NEW IMEI OTP PASSWORD : SLD12HBJ
—
확인





### 9. Reference Abbreviation

### **Reference Abbreviation**

- AAC: Advanced Audio Coding.
- AVC : Advanced Video Coding.
- BER : Bit Error Rate
- BPSK: Binary Phase Shift Keying
- CA : Conditional Access
- CDM : Code Division Multiplexing
- C/I : Carrier to Interference
- DMB : Digital Multimedia Broadcasting
- EN : European Standard
- ES : Elementary Stream
- ETSI: European Telecommunications Standards Institute
- MPEG: Moving Picture Experts Group
- PN : Pseudo-random Noise
- PS : Pilot Symbol
- QPSK: Quadrature Phase Shift Keying
- RS : Reed-Solomon
- SI : Service Information
- TDM : Time Division Multiplexing
- TS : Transport Stream

