

## 2. Specification

### 2-1. GSM General Specification

	GSM850	EGSM 900	DCS1800	PCS1900	WCDMA 2100	WCDMA 1900	WCDMA 1700	WCDMA 900	WCDMA 850
Freq. Band [MHz] ] Uplink/ Downlink	824~849 869~894	880~915 925~960	1710~1785 1805~1880	1850~1910 1930~1990	1922~1977 2112~2167	1852~1907 1932~1987	1710~1755 2110~2155	880~915 925~960	824~849 869~894
ARFCN range	128~251	0~124 & 975~1023	512~885	512~810	UL: 9612~9888 8 DL: 10562~10838	UL: 9262~9538 8 DL: 9662~9938	UL: 1313~1513 3 DL: 1538~1737	UL: 2712~2863 3 DL: 2937~3088	UL: 4132~4233 3 DL: 4357~4458
Tx/Rx spacing	45MHz	45MHz	95MHz	80MHz	190MHz	80MHz	400MHz	45MHz	45MHz
Mod. Bit rate/ Bit Period	270.833k bps 3.692us	270.833k bps 3.692us	270.833k bps 3.692us	270.833k bps 3.692us	3.84Mcps	3.84Mcps	3.84Mcps	3.84Mcps	3.84Mcps
Time Slot Period/ Frame Period	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	FrameLengt h: 10ms Slotlength : 0.667ms	FrameLengt h: 10ms Slotlength : 0.667ms	FrameLengt h: 10ms Slotlength : 0.667ms	FrameLengt h: 10ms Slotlength : 0.667ms	FrameLengt h: 10ms Slotlength : 0.667ms
Modulation	0.3GMSK	0.3GMSK	0.3GMSK	0.3GMSK	QPSKHQPSK	QPSKHQPSK	QPSKHQPSK	QPSKHQPSK	QPSKHQPSK
MS Power	33dBm~5dBm	33dBm~5dBm	30dBm~0dBm	30dBm~0dBm	24dBm~ -50dBm	24dBm~ -50dBm	24dBm~ -50dBm	24dBm~ -50dBm	24dBm~ -50dBm
Power Class	5pcl ~ 19pcl	5pcl ~ 19pcl	0pcl ~ 15pcl	0pcl ~ 15pcl	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)
Sensitivity	-102dBm	-102dBm	-100dBm	-100dBm	106.7dBm	106.7dBm	106.7dBm	106.7dBm	106.7dBm
TDMA Mux	8	8	8	8	8	8	8	8	8
Cell Radius	35Km	35Km	2Km	2Km	2Km	2Km	2Km	2Km	2Km

## 2. Specification

### 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±3dBm	17	9±3dBm	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. Specification

### [SM-J330F/FN]

#### 2-3. LTE General Specification

	LTE Band1	LTE Band2	LTE Band3	LTE Band4	LTE Band5	LTE Band7	LTE Band8
Freq. Band[MHz] Uplink/ Downlink	1920~1980 2110~2170	1850~1910 1930~1990	1710~1785 1805~1880	2520~2570 1805~1880	824~849 869~894	2500~2570 1805~1880	880~914.9 925~959.9
ARFCN range	UL: 18000~1859 9 DL: 0~599	UL: 18650~1915 0 DL: 650~1150	UL: 19200~1995 0 DL: 1805~1880	UL: 20750~2144 9 DL: 2750~3449	UL: 20400~2064 9 DL: 2400~2649	UL: 20750~2144 9 DL: 2750~3449	UL: 21450~21799 DL: 3450~3799
Tx/Rx spacing	190MHz	90MHz	95MHz	400MHz	45MHz	120MHz	45MHz
Channel Bandwidth	5/10/15/20 MHz	1.4/3/5/10/15/20MHz	1.4/3/5/10/15/20MHz	1.4/3/5/10/15/20MHz	1.4/3/5/10MHz	5/10/15/20 MHz	1.4/3/5/10MHz
Modulation	QPSK, 16/64 QAM	QPSK, 16/64 QAM	QPSK, 16/64 QAM	QPSK, 16/64 QAM	QPSK, 16/64 QAM	QPSK, 16/64 QAM	QPSK, 16/64 QAM
MS Power (MPR)	-35~25.7 dBm	-35~25.7 dBm	-35~25.7 dBm	-35~25.7 dBm	-35~25.7 dBm	-35~25.7 dBm	-35~25.7 dBm
Sensitivity (QPSK) (BW 10MHz)	-94 dBm	-92 dBm	-92 dBm	-92 dBm	-92 dBm	-95dBm	-95dBm
Cell Radius	>5Km	>5Km	>5Km	>5Km	>5Km	>5Km	>5Km

## 2. Specification

	LTE Band17	LTE Band20	LTE Band 38	LTE Band 40
Freq. Band[MHz] Uplink/ Downlink	704~716 734~746	832~862 791~821	2570~2620	2300~2400
ARFCN range	UL: 24150~24450 DL: 6150~6450	UL: 24150~24450 DL: 6150~6450	UL, DL : 2570~2620	UL, DL : 2300~2400
Tx/Rx spacing	30MHz	41Mhz	-	-
Channel Bandwidth	5/10/15/20 MHz	5/10/15/20 MHz	5/10/15/20 MHz	5/10/15/20MHz
Modulation	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM
MS Power (MPR)	-35~25.7dBm	-35~25.7dBm	-35~25.7 dBm	-35~25.7 dBm
Sensitivit (QPSK) (BW 10MHz)	-94dBm	-94dBm	-97dBm	-97dBm
Cell Radius	>5Km	>5Km	>5Km	>5Km

## 2. Specification

### [SM-J330G]

#### 2-3. LTE General Specification

	LTE Band1	LTE Band2	LTE Band3	LTE Band4	LTE Band5	LTE Band7	LTE Band8
Freq. Band[MHz] Uplink/ Downlink	1920~1980 2110~2170	1850~1910 1930~1990	1710~1785 1805~1880	2520~2570 1805~1880	824~849 869~894	2500~2570 1805~1880	880~914.9 925~959.9
ARFCN range	UL: 18000~1859 9 DL: 0~599	UL: 18650~1915 0 DL: 650~1150	UL: 19200~1995 0 DL: 1805~1880	UL: 20750~2144 9 DL: 2750~3449	UL: 20400~2064 9 DL: 2400~2649	UL: 20750~2144 9 DL: 2750~3449	UL: 21450~21799 DL: 3450~3799
Tx/Rx spacing	190MHz	90MHz	95MHz	400MHz	45MHz	120MHz	45MHz
Channel Bandwidth	5/10/15/20 MHz	1.4/3/5/10/15/20MHz	1.4/3/5/10/15/20MHz	1.4/3/5/10/15/20MHz	1.4/3/5/10MHz	5/10/15/20 MHz	1.4/3/5/10MHz
Modulation	QPSK, 16/64 QAM	QPSK, 16/64 QAM	QPSK, 16/64 QAM	QPSK, 16/64 QAM	QPSK, 16/64 QAM	QPSK, 16/64 QAM	QPSK, 16/64 QAM
MS Power (MPR)	-35~25.7 dBm	-35~25.7 dBm	-35~25.7 dBm	-35~25.7 dBm	-35~25.7 dBm	-35~25.7 dBm	-35~25.7 dBm
Sensitivity (QPSK) (BW 10MHz)	-94 dBm	-92 dBm	-92 dBm	-92 dBm	-92 dBm	-95dBm	-95dBm
Cell Radius	>5Km	>5Km	>5Km	>5Km	>5Km	>5Km	>5Km

## 2. Specification

	LTE Band17	LTE Band20	LTE Band28	LTE Band 38	LTE Band 40
Freq. Band[MHz] Uplink/ Downlink	704~716 734~746	832~862 791~821	708~743 763~798	2570~2620	2300~2400
ARFCN range	UL: 24150~24450 DL: 6150~6450	UL: 24150~24450 DL: 6150~6450	UL: 27260~27609 DL: 6260~6609	UL, DL : 2570~2620	UL, DL : 2300~2400
Tx/Rx spacing	30MHz	41Mhz	55Mhz	-	-
Channel Bandwidth	5/10/15/20 MHz	5/10/15/20 MHz	5/10/15/20 MHz	5/10/15/20 MHz	5/10/15/20 MHz
Modulation	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM
MS Power (MPR)	-35~25.7dBm	-35~25.7dBm	-35~25.7dBm	-35~25.7 dBm	-35~25.7 dBm
Sensitivit (QPSK) (BW 10MHz)	-94dBm	-94dBm	-94dBm	-97dBm	-97dBm
Cell Radius	>5Km	>5Km	>5Km	>5Km	>5Km

### 3. Operation Instruction and Installation

#### Main Function

Item	Description
OS	Android V7.0 (Nougat OS)
<b>SM-J330F/FN</b> RF	2G Quad(850/900/1800/1900), WCDMA(1,2,5,8), LTE (1,2,3,4,5,7,8,17,20,38,40)
<b>SM-J330G</b> RF	2G Quad(850/900/1800/1900), WCDMA(1,2,4,5,8), LTE (1,2,3,4,5,7,8,17,20,28,38,40)
Battery	2,400mAh
Base Band	1.4GHz Quad
<b>SM-J330F/G</b> Other RF	GPS, Glonass, Beidou, BT4.2, USB 2.0, WIFI 802.11 b/g/n SISO
<b>SM-J330FN</b> Other RF	GPS, Glonass, Beidou, BT4.2, USB 2.0, WIFI 802.11 b/g/n SISO, <b>NFC</b>
Camera	13MP AF (Main). 5M FF(Front)
LCD	5" HD in Cell Touch LCD, 1280 x 720
RAM	2GB LPDDR3 RAM + 16GB eMMC
Sensor	Accelerometer, Proxy
Accessory	Charger: 5V, 1A Headset (Option)

## 9. Reference Abbreviate

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### Reference Abbreviate

- **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



# 1. Safety Precautions

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## 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

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## 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.

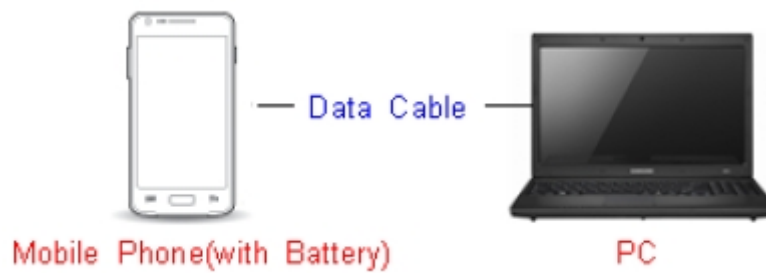
## 6. Level 1 Repair

### 6-1. S/W Download

#### 6-1-1. Prepare for S/W Downloading

- Installation program: Downloader Program (**Odin3 v3.11.exe**)
- Mobile Phone
- Data Cable
- Mobile device specific S/W: Binary files

#### ✳ Settings

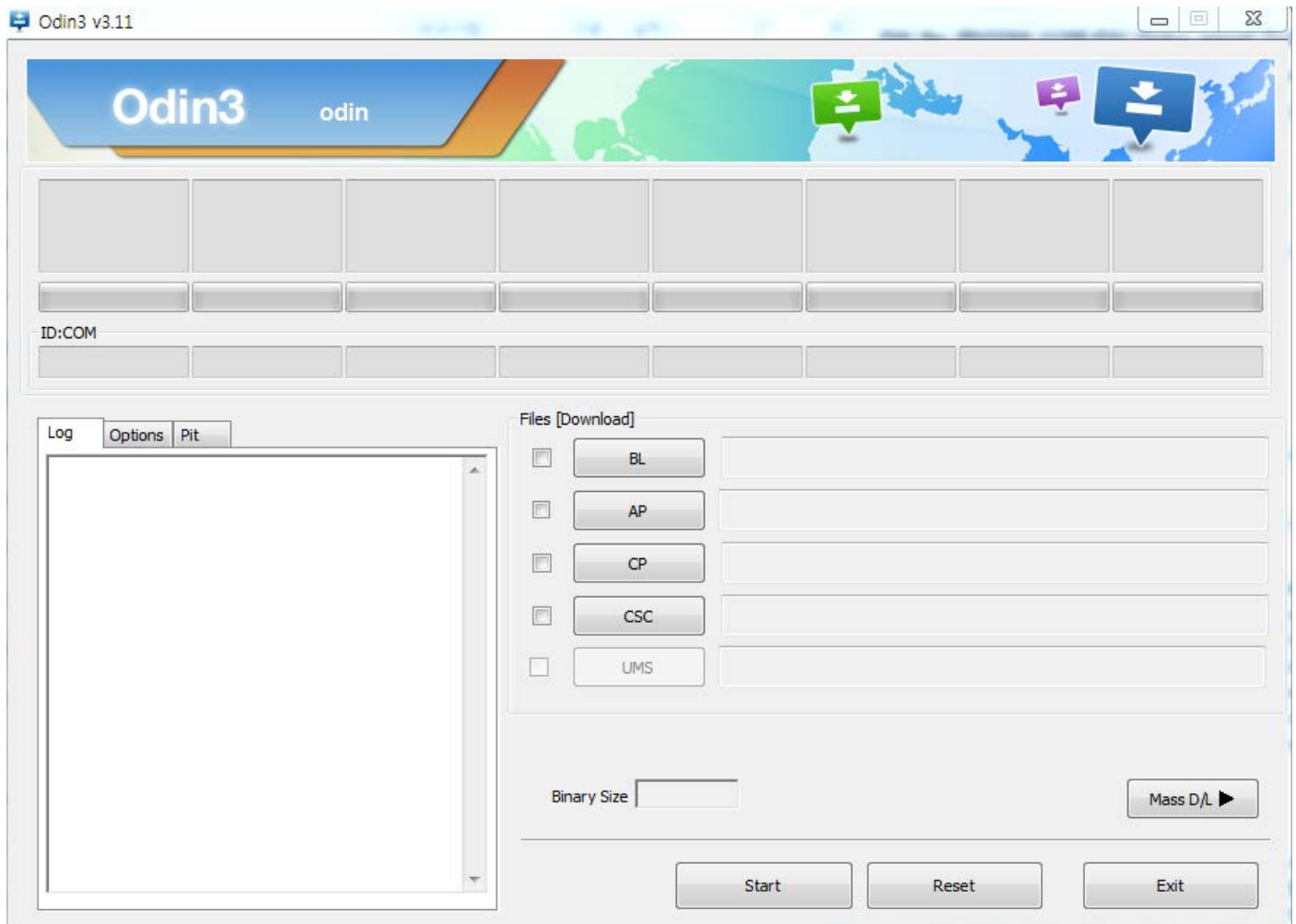


**Data Cable : GH39-01710D**

## 6. Level 1 Repair

### 6-1-2. S/W Installation Program (Downloader program)

- Open up the S/W Installation Program by executing the "Odin3 v3.11.exe"

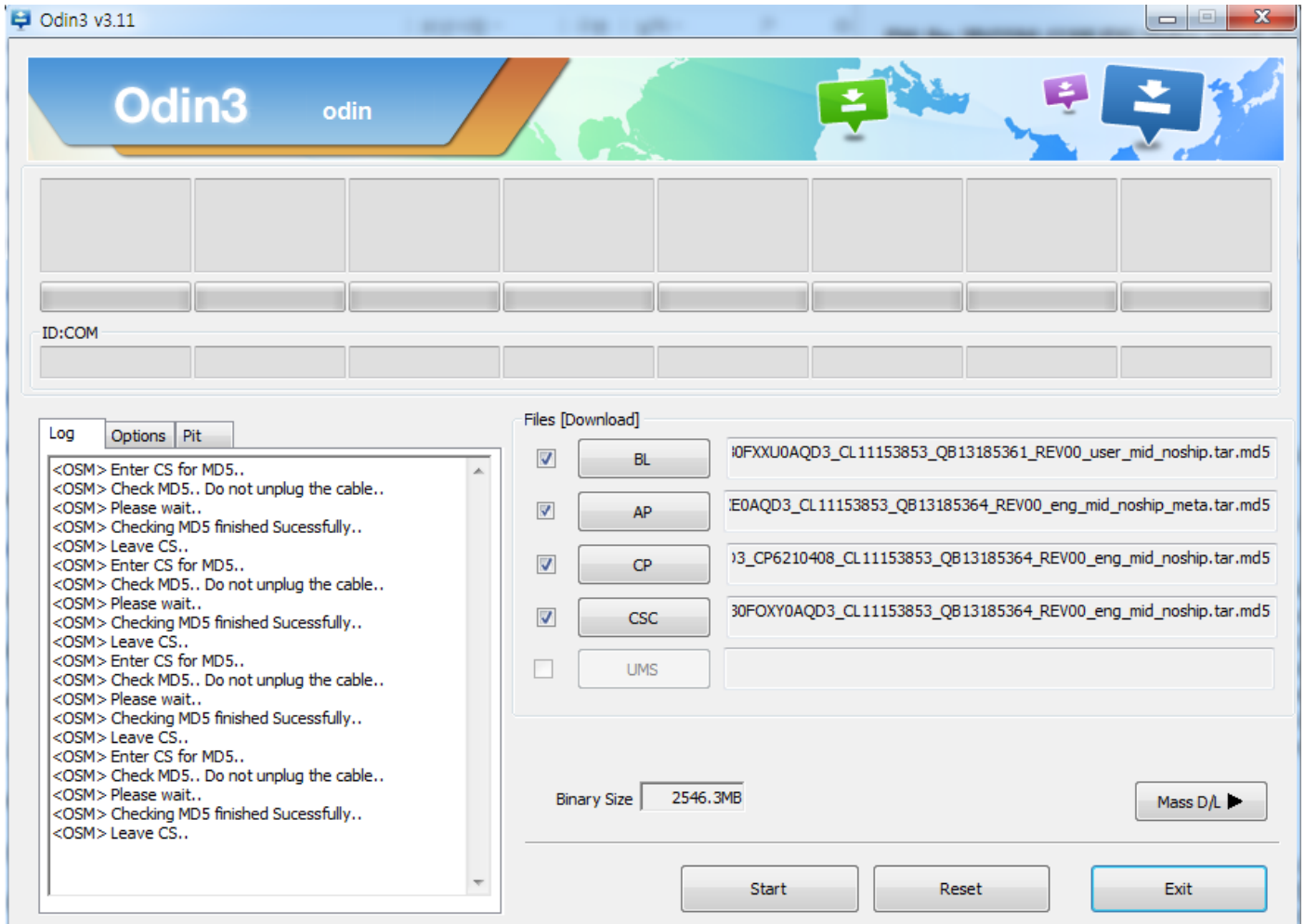


## 6. Level 1 Repair

1. Enable the check mark by click on the following options,

- Check Auto Reboot, Re-Partition, and F. Reset Time
- Check PIT
- Check BOOTLOADER, PDA, PHONE, and CSC Files

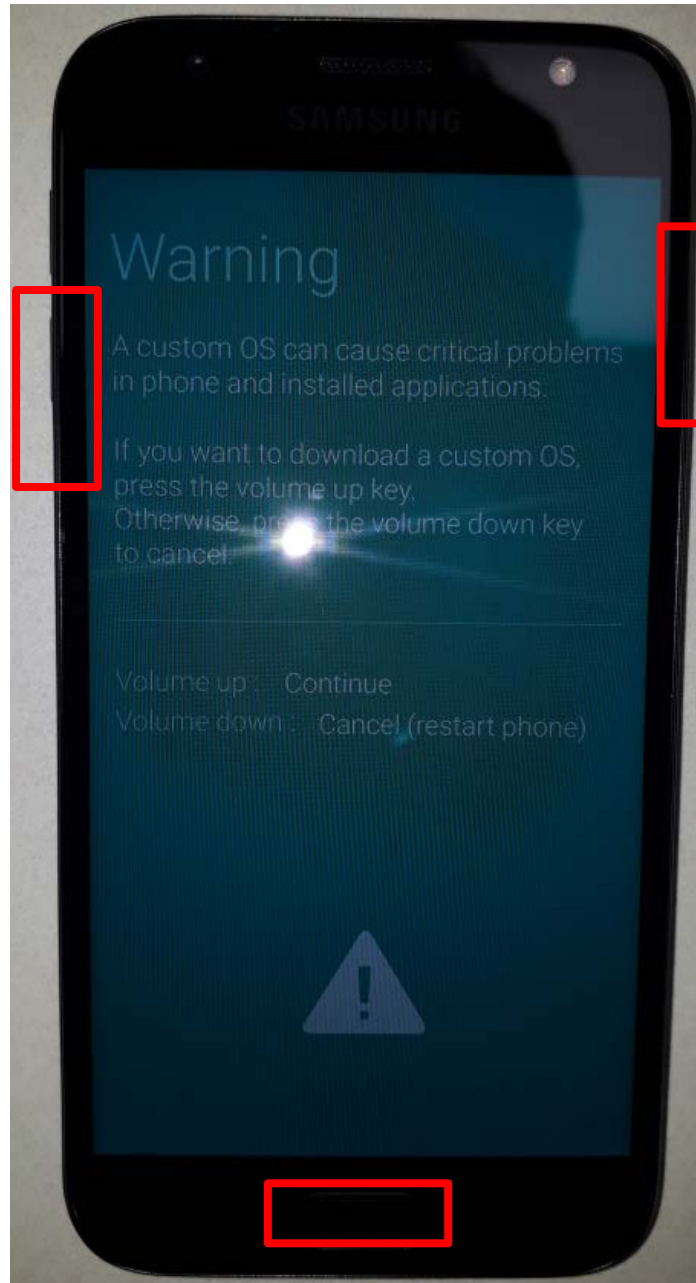
\* Note : "Odin v3.09 or above" checks MD5 checksum just after file selection.



## 6. Level 1 Repair

### 2. Enter into Download Mode

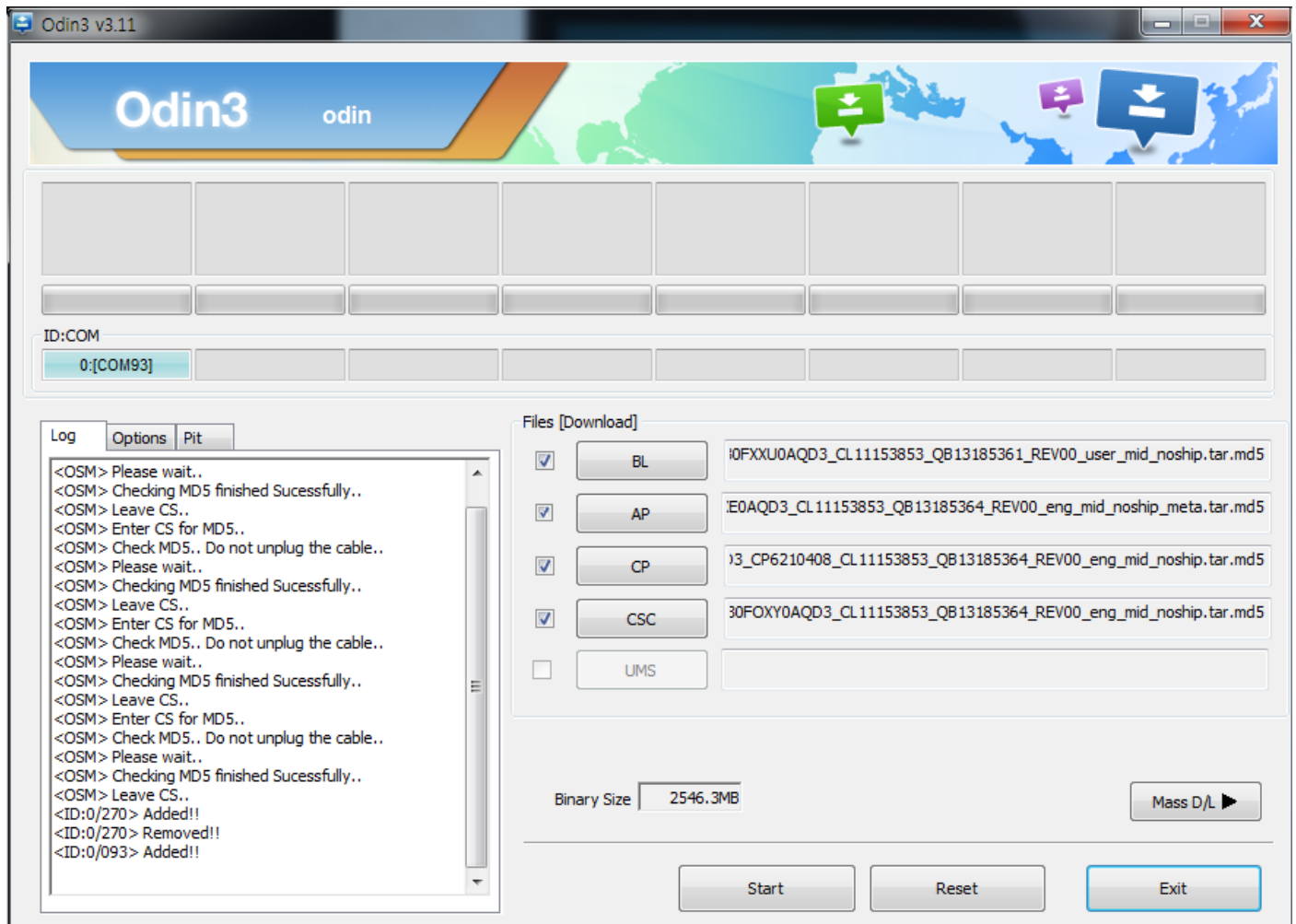
- Enter into Download Mode by pressing Volume Down, Home and Power button simultaneously followed by pressing
- Volume up button as a direction of the phone.



## 6. Level 1 Repair

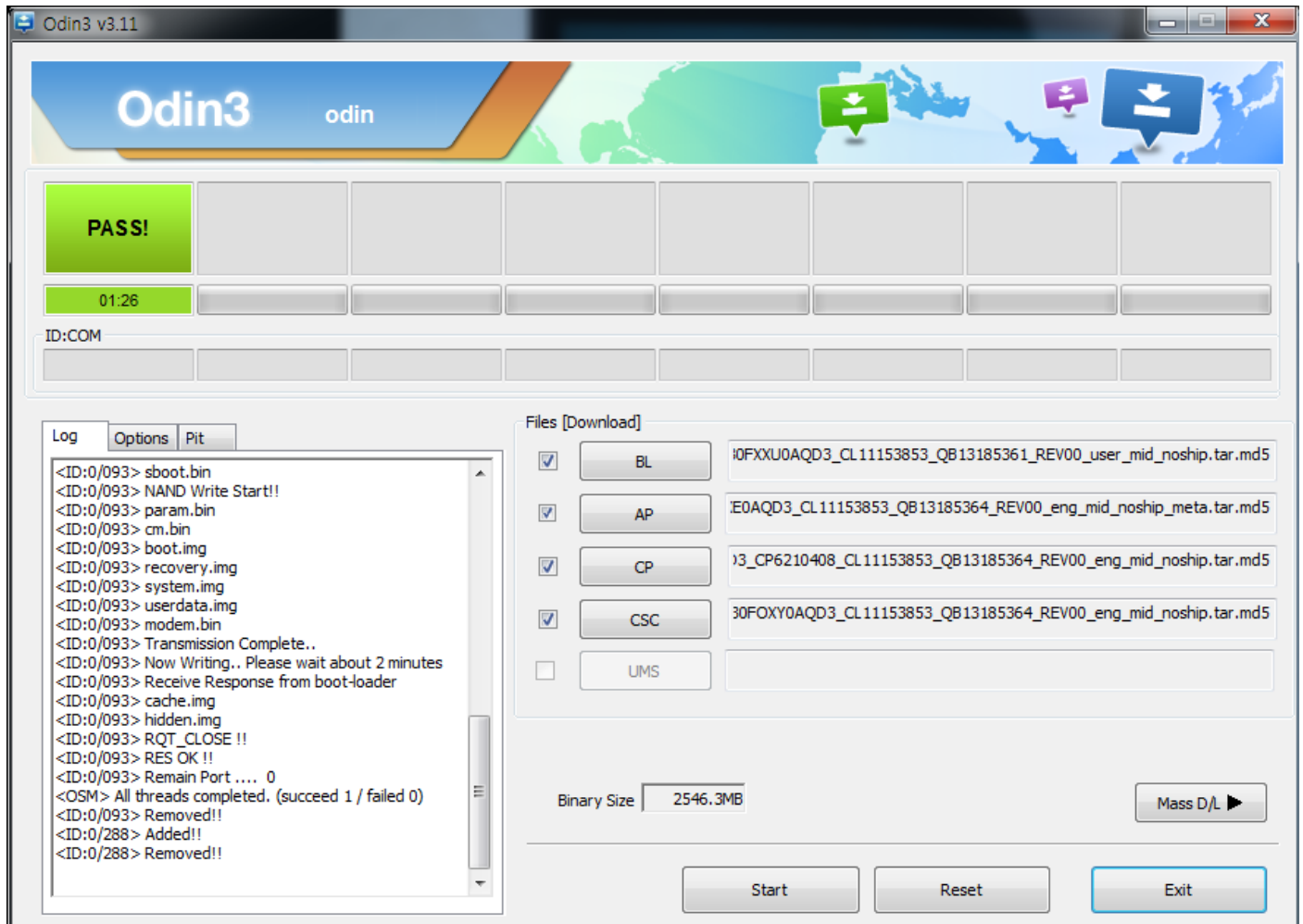
### 3. Connect the device to PC via Data Cable.

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.



## 6. Level 1 Repair

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.



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 Reset by Settings → Accounts → Backup and reset

**※ Caution, Never disconnect during the S/W downloading.**



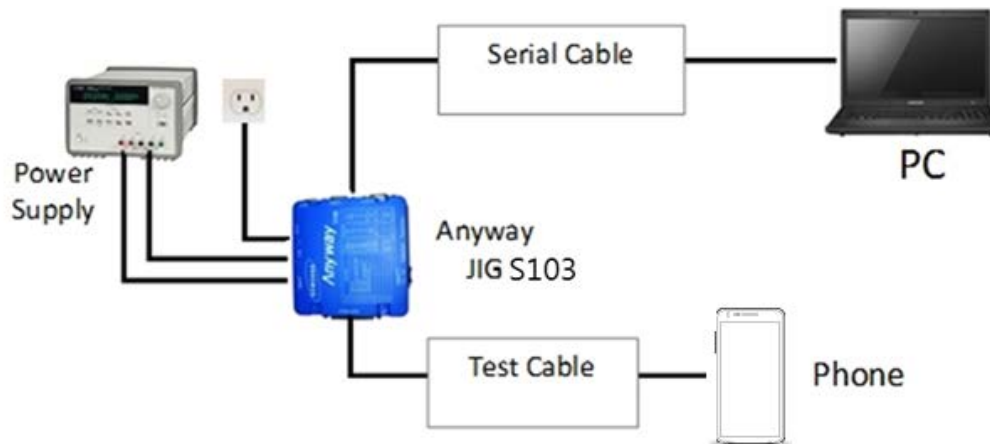
## 6. Level 1 Repair

### 6-2 IMEI writing

#### 6-2-1 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



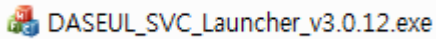
#### - S/W

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_25 or higher -Uploaded on HHPsvc Notice
③ Runtime File	1. DASEUL_Runtime_Ver_3.1.139.0.CAB or higher -Uploaded on HHPsvc Notice 2. Make 'ModelName' folder at the same position with launcher & Runtime file.
④ Model File	Copy Model File under the 'Model Name' folder

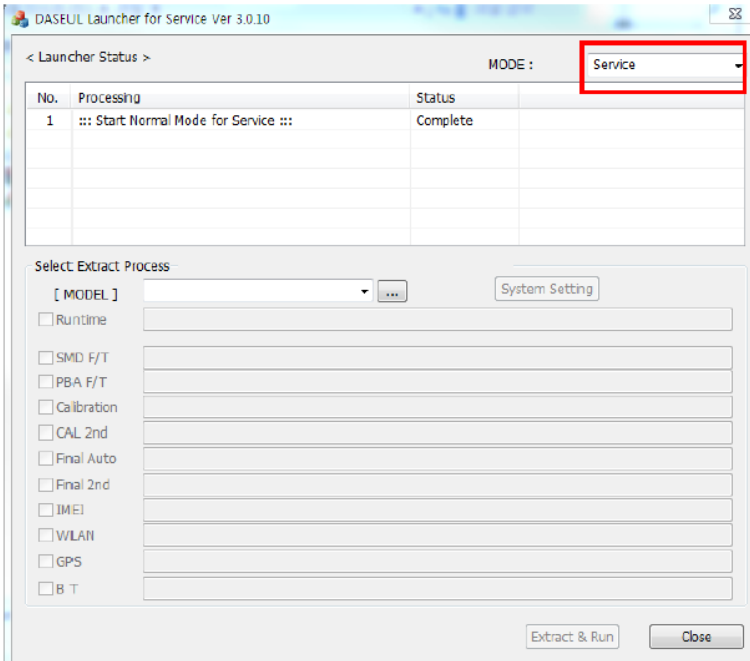
## 6. Level 1 Repair

### 6-2-2 IMEI writing Process

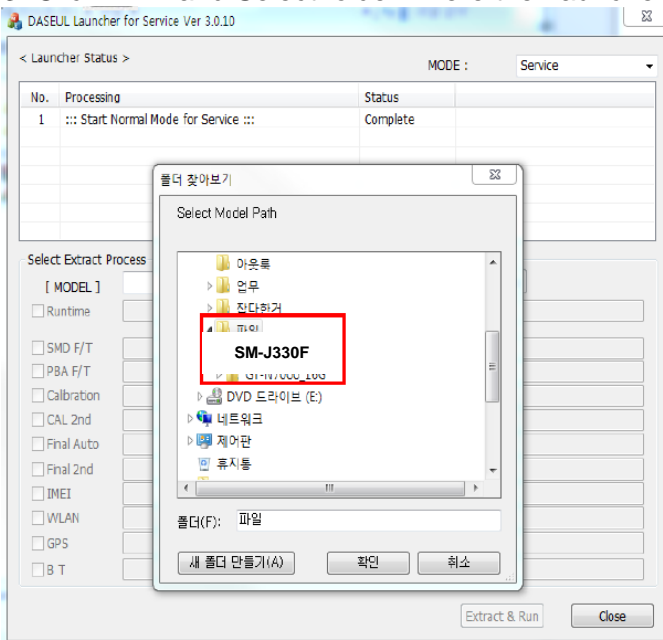
1. Run DASEUL\_SVC\_Launcher\_v3.0.12.exe



2. Select Service Mode

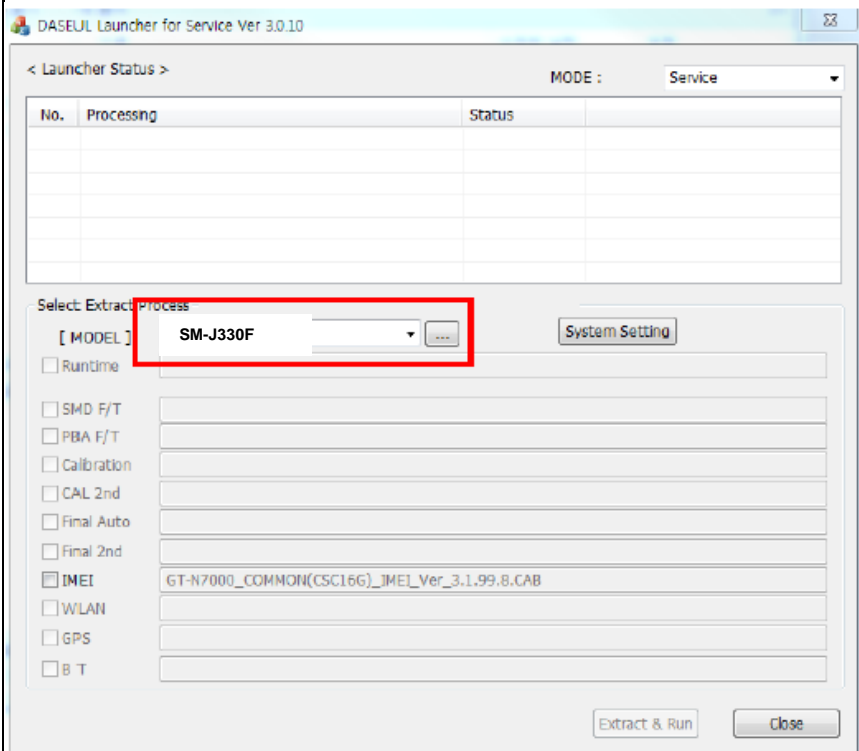


3. Click [ ... ] and Select folder where the Launcher exists



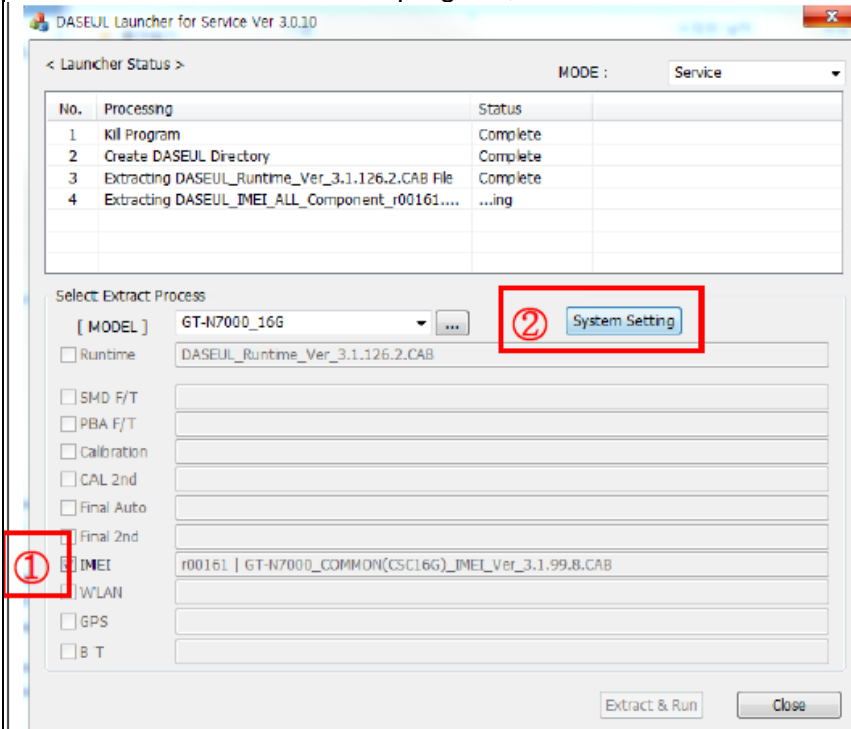
## 6. Level 1 Repair

### 4. Select Model



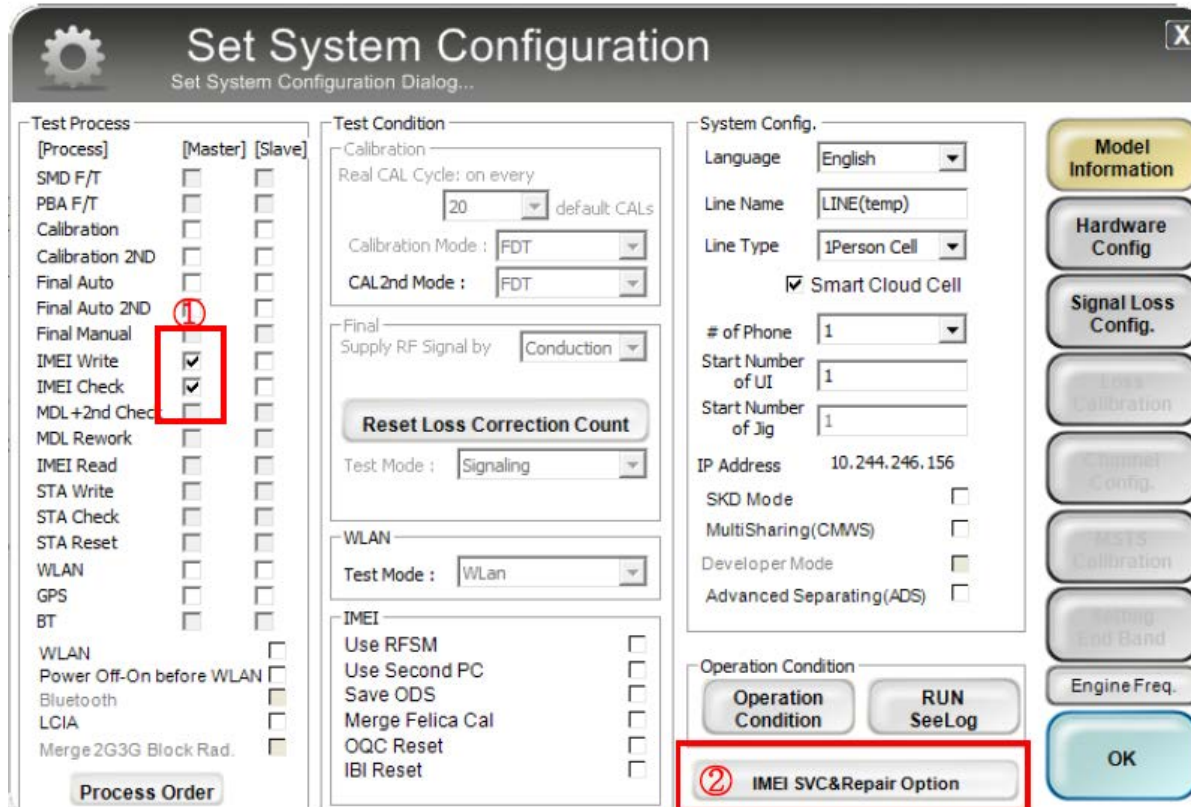
### 5. Check IMEI and click System Setting

✘Once you setup the setting, you don't have to do it again, unless there is change.  
From second run of the IMEI program, check IMEI and click Extract & Run.



## 6. Level 1 Repair

6. Check IMEI Write / IMEI Check and click IMEI SVC & Repair Option.



**Set System Configuration**  
Set System Configuration Dialog...

**Test Process**

[Process]	[Master]	[Slave]
SMD F/T	<input type="checkbox"/>	<input type="checkbox"/>
PBA F/T	<input type="checkbox"/>	<input type="checkbox"/>
Calibration	<input type="checkbox"/>	<input type="checkbox"/>
Calibration 2ND	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto 2ND	<input type="checkbox"/>	<input type="checkbox"/>
Final Manual	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Write	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IMEI Check	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MDL+2nd Check	<input type="checkbox"/>	<input type="checkbox"/>
MDL Rework	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Read	<input type="checkbox"/>	<input type="checkbox"/>
STA Write	<input type="checkbox"/>	<input type="checkbox"/>
STA Check	<input type="checkbox"/>	<input type="checkbox"/>
STA Reset	<input type="checkbox"/>	<input type="checkbox"/>
WLAN	<input type="checkbox"/>	<input type="checkbox"/>
GPS	<input type="checkbox"/>	<input type="checkbox"/>
BT	<input type="checkbox"/>	<input type="checkbox"/>
WLAN	<input type="checkbox"/>	<input type="checkbox"/>
Power Off-On before WLAN	<input type="checkbox"/>	<input type="checkbox"/>
Bluetooth	<input type="checkbox"/>	<input type="checkbox"/>
LCIA	<input type="checkbox"/>	<input type="checkbox"/>
Merge 2G3G Block Rad.	<input type="checkbox"/>	<input type="checkbox"/>

**Test Condition**

Calibration  
Real CAL Cycle: on every 20 default CALs  
Calibration Mode: FDT  
CAL2nd Mode: FDT

Final  
Supply RF Signal by: Conduction

**Reset Loss Correction Count**

Test Mode: Signaling

WLAN  
Test Mode: WLAN

IMEI  
Use RFSM   
Use Second PC   
Save ODS   
Merge Felica Cal   
OQC Reset   
IBI Reset

**System Config.**

Language: English  
Line Name: LINE(temp)  
Line Type: 1Person Cell  
 Smart Cloud Cell  
# of Phone: 1  
Start Number of UI: 1  
Start Number of Jig: 1  
IP Address: 10.244.246.156  
SKD Mode   
MultiSharing(CMWS)   
Developer Mode   
Advanced Separating(ADS)

**Operation Condition**

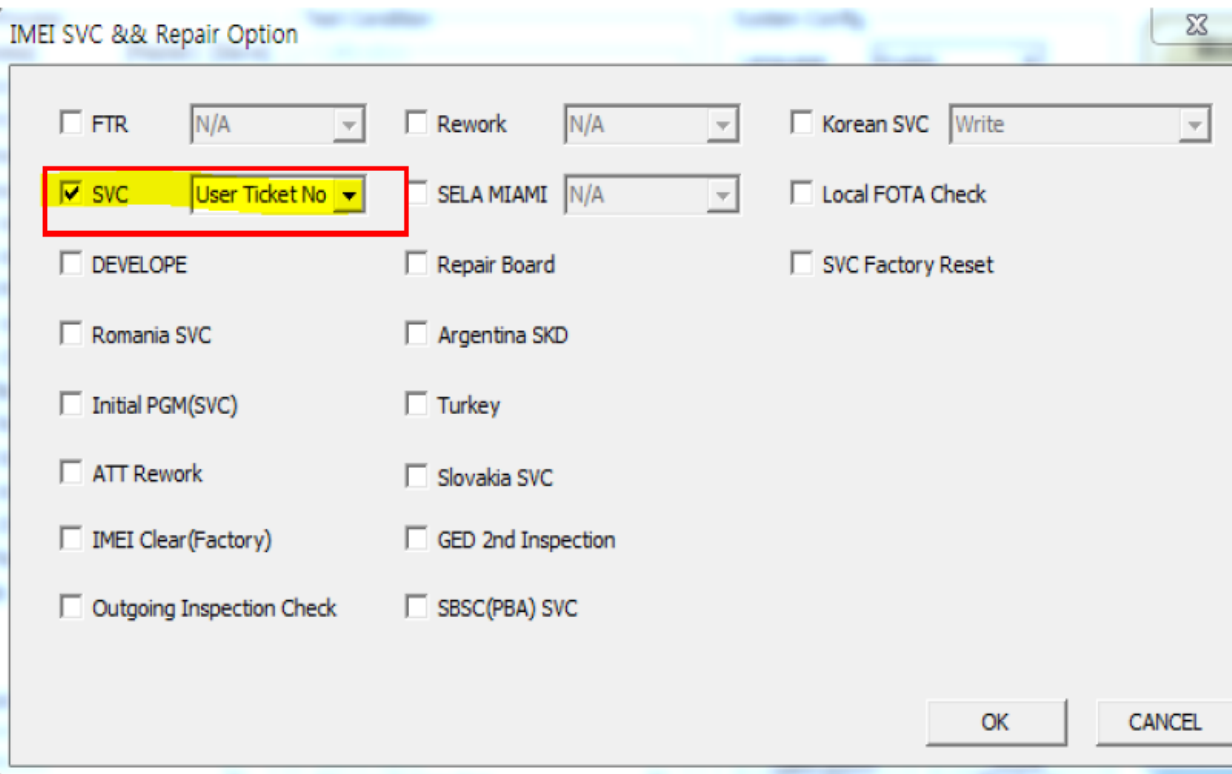
Operation Condition

**IMEI SVC&Repair Option**

**Process Order**

**Model Information**  
**Hardware Config**  
**Signal Loss Config.**  
Loss Calibration  
Signal Config.  
MMS Calibration  
Setting End Band  
Engine Freq.  
**OK**

7. Check 'SVC , User Ticket No' and click OK



**IMEI SVC && Repair Option**

FTR N/A  Rework N/A  Korean SVC Write

SVC User Ticket No  SELA MIAMI N/A  Local FOTA Check

DEVELOPE  Repair Board  SVC Factory Reset

Romania SVC  Argentina SKD

Initial PGM(SVC)  Turkey

ATT Rework  Slovakia SVC

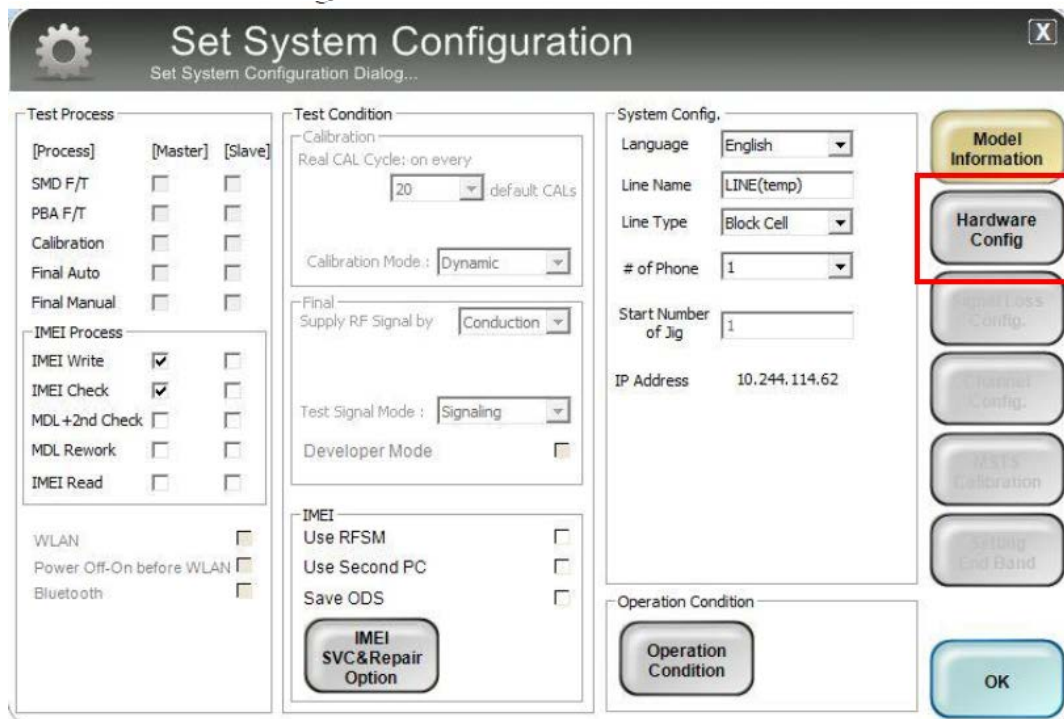
IMEI Clear(Factory)  GED 2nd Inspection

Outgoing Inspection Check  SBSC(PBA) SVC

**OK** **CANCEL**

## 6. Level 1 Repair

### 8. Click 'Hardware Config'



**Set System Configuration**  
Set System Configuration Dialog...

**Test Process**

[Process]	[Master]	[Slave]
SMD F/T	<input type="checkbox"/>	<input type="checkbox"/>
PBA F/T	<input type="checkbox"/>	<input type="checkbox"/>
Calibration	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto	<input type="checkbox"/>	<input type="checkbox"/>
Final Manual	<input type="checkbox"/>	<input type="checkbox"/>

**IMEI Process**

IMEI Write	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IMEI Check	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MDL+2nd Check	<input type="checkbox"/>	<input type="checkbox"/>
MDL Rework	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Read	<input type="checkbox"/>	<input type="checkbox"/>

WLAN   
Power Off-On before WLAN   
Bluetooth

**Test Condition**

Calibration  
Real CAL Cycle: on every  
20 default CALs  
Calibration Mode.: Dynamic

Final  
Supply RF Signal by: Conduction

Test Signal Mode: Signaling  
Developer Mode

**IMEI**

Use RFSM   
Use Second PC   
Save ODS

**System Config.**

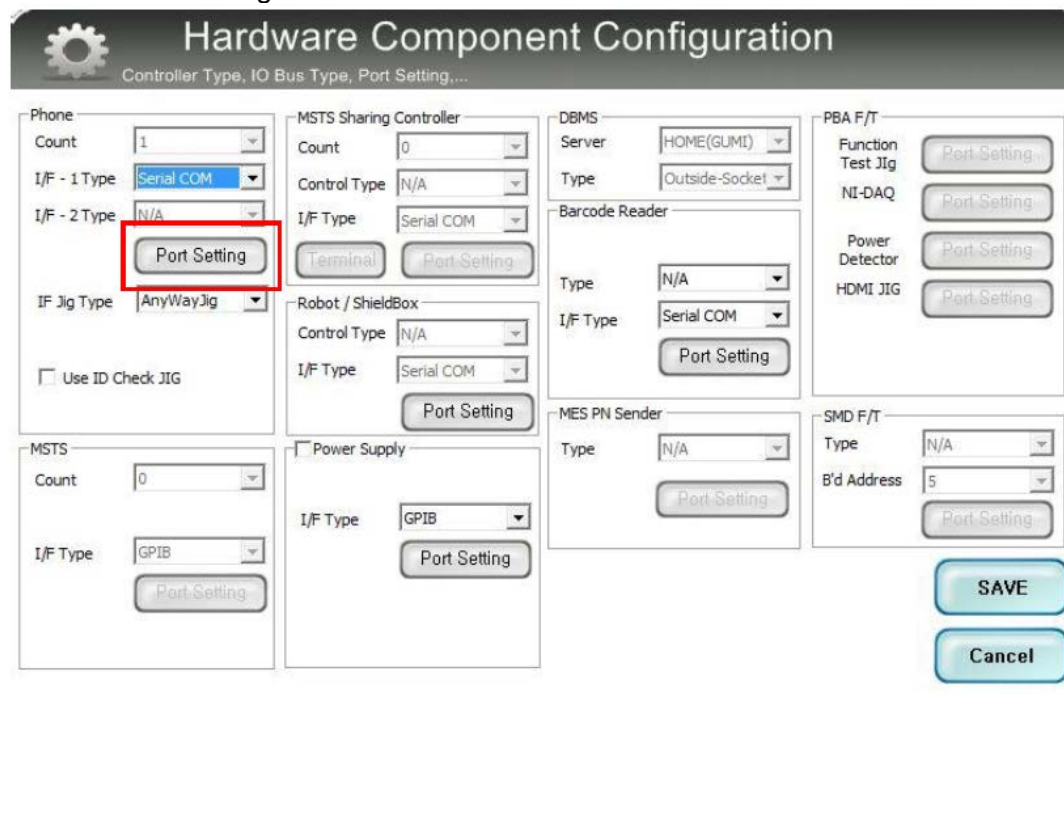
Language: English  
Line Name: LINE(temp)  
Line Type: Block Cell  
# of Phone: 1  
Start Number of Jig: 1  
IP Address: 10.244.114.62

**Operation Condition**

Model Information  
Hardware Config  
Signal Loss Config.  
Terminal Config.  
MSTs Calibration  
Setting End Band

IMEI SVC&Repair Option  
Operation Condition  
OK

### 9. Click 'Port Setting'



**Hardware Component Configuration**  
Controller Type, IO Bus Type, Port Setting,...

**Phone**

Count: 1  
I/F - 1 Type: Serial COM  
I/F - 2 Type: N/A  
IF Jig Type: AnyWayJig  
 Use ID Check JIG

**MSTS Sharing Controller**

Count: 0  
Control Type: N/A  
I/F Type: Serial COM  
Terminal  
Port Setting

**Robot / ShieldBox**

Control Type: N/A  
I/F Type: Serial COM  
Port Setting

**Power Supply**

I/F Type: GPIB  
Port Setting

**DBMS**

Server: HOME(GUMI)  
Type: Outside-Socket

**Barcode Reader**

Type: N/A  
I/F Type: Serial COM  
Port Setting

**MES PN Sender**

Type: N/A  
Port Setting

**PBA F/T**

Function Test Jig  
NI-DAQ  
Power Detector  
HDMI JIG  
Port Setting  
Port Setting  
Port Setting  
Port Setting

**MSTS**

Count: 0  
I/F Type: GPIB  
Port Setting

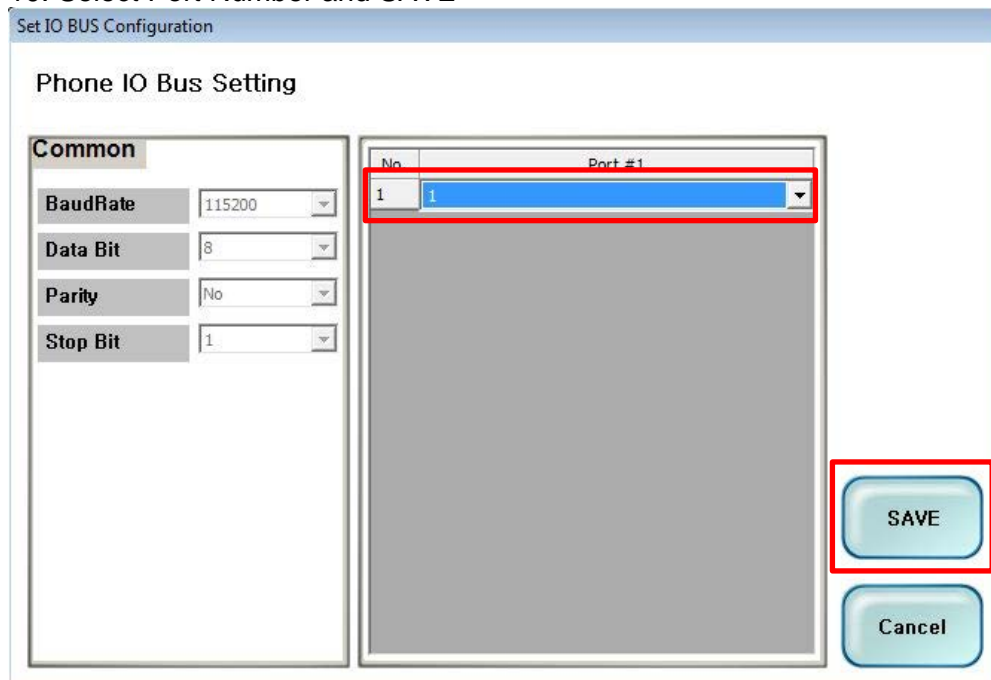
**SMD F/T**

Type: N/A  
B'd Address: 5  
Port Setting

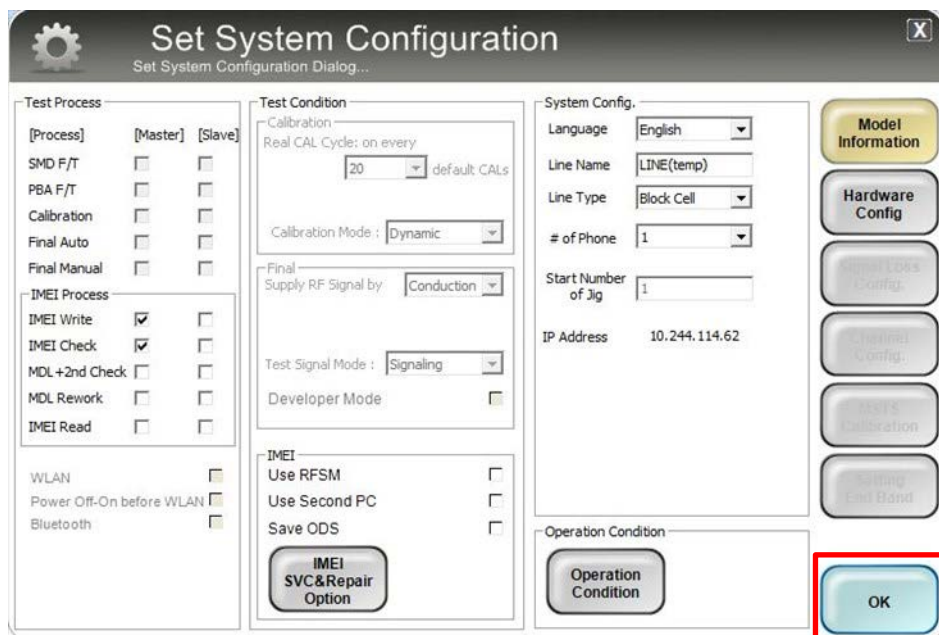
SAVE  
Cancel

## 6. Level 1 Repair

### 10. Select Port Number and SAVE

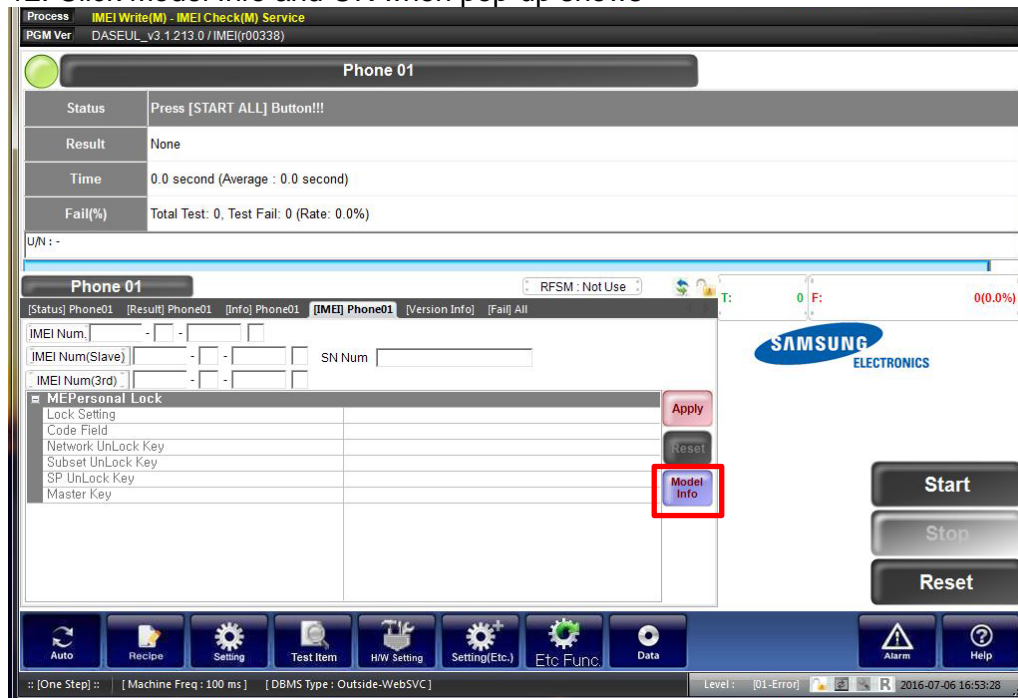


### 11. Click OK to proceed



## 6. Level 1 Repair

### 12. Click Model Info and OK when pop-up shows



### 13. Click OK

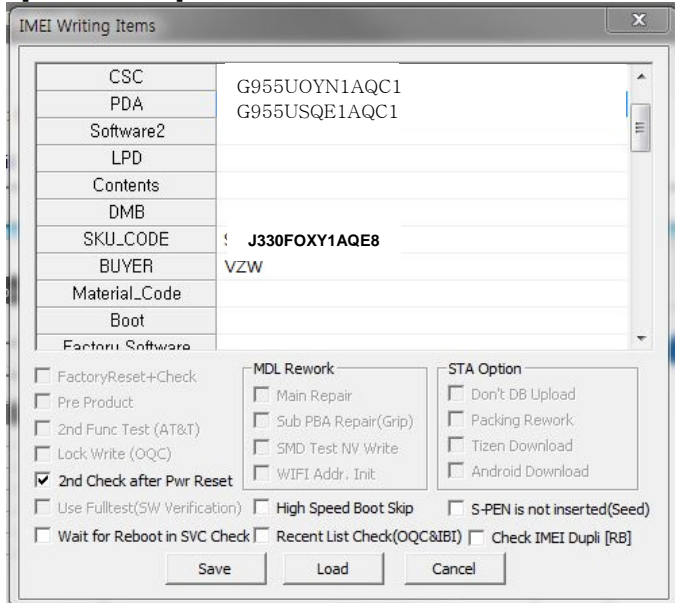


## 6. Level 1 Repair

14. Input SKU\_CODE and BUYER, then click Save button.

※ Refer to HHPsvc→IMEI Review to check SKU Code and buyer

[SM-G950U]



IMEI Writing Items

CSC	G955UOYN1AQC1
PDA	G955USQE1AQC1
Software2	
LPD	
Contents	
DMB	
SKU_CODE	J330FOXY1AQE8
BUYER	VZW
Material_Code	
Boot	
Factory Software	

FactoryReset+Check  
 Pre Product  
 2nd Func Test (AT&T)  
 Lock Write (OQC)  
 2nd Check after Pwr Reset  
 Use Fulltest(SW Verification)  
 Wait for Reboot in SVC Check

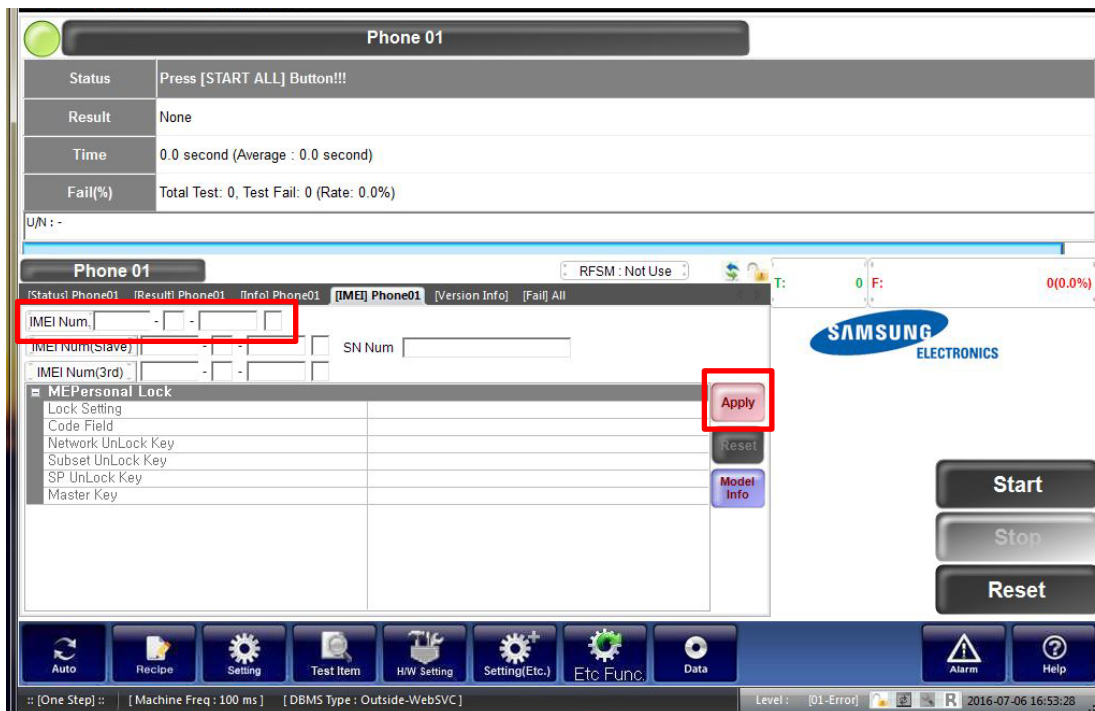
**MDL Rework**  
 Main Repair  
 Sub PBA Repair(Grip)  
 SMD Test NV Write  
 WIFI Addr. Init  
 High Speed Boot Skip  
 Recent List Check(OQC&IBI)

**STA Option**  
 Don't DB Upload  
 Packing Rework  
 Tizen Download  
 Android Download  
 S-PEN is not inserted(Seed)

Check IMEI Dupli [RB]

Save Load Cancel

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(%): Total Test: 0, Test Fail: 0 (Rate: 0.0%)

U/N: -

Phone 01 RFSM : Not Use

IMEI Num: [ ]

IMEI Num(Slave): [ ]

IMEI Num(3rd): [ ]

SN Num: [ ]

MEPersonal Lock

Lock Setting

Code Field

Network UnLock Key

Subset UnLock Key

SP UnLock Key

Master Key

Apply

Reset

Model Info

Start

Stop

Reset

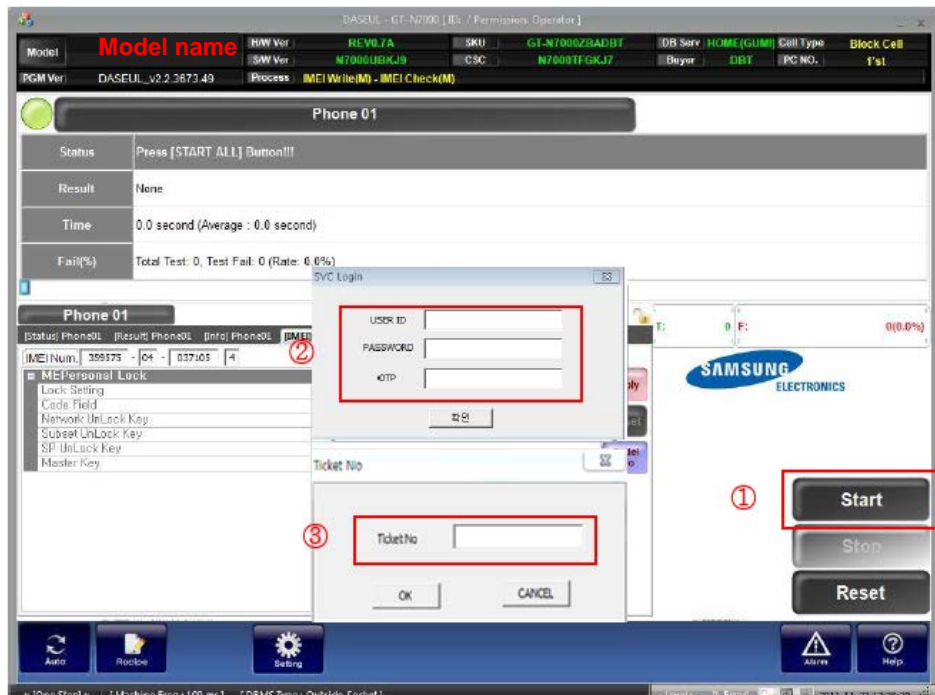
Auto Recipe Setting Test Item HW Setting Setting(Etc.) Etc Func. Data

[One Step] [Machine Freq : 100 ms] [DBMS Type : Outside-WebSVC] Level : 01-Error 2016-07-06 16:53:28



## 6. Level 1 Repair

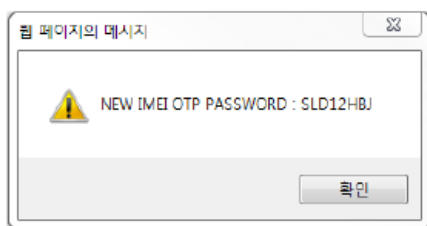
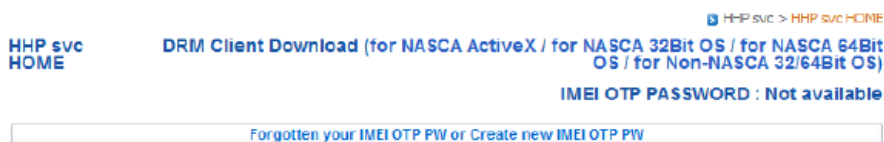
16. ① Click Start → ② Input IMEI writing ID and Password & OTP → ③ Input Ticket No



※ 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 Create new IMEI OTP PW” button.

☞ OTP Location : GSPN → Knowledge → HHP svc → Home

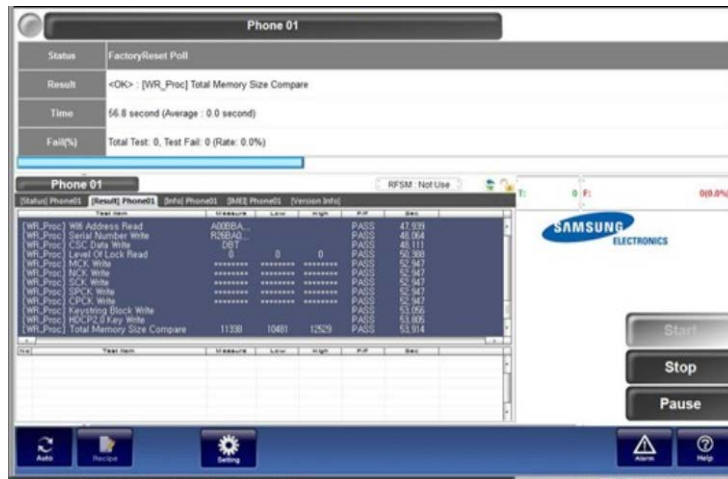


## 6. Level 1 Repair

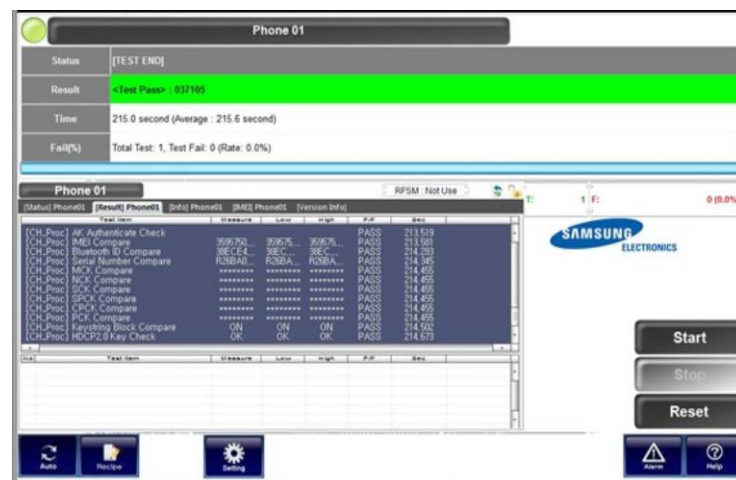
### 17. Connect the phone to Anyway JIG

- ✘ When you connect the phone, the phone should be turned off.  
After connecting the phone, the phone will be booted automatically.

### 18. IMEI Writing Proceeding



### 19. IMEI Writing Success



## 6. Level 1 Repair

### 6-3. RF Calibration





#### 6-3-1. Required items in order to calibrate RF

- Installation program: RF Calibration Program
- Daseul\_Launcher\_vx.x.xx.exe
- Daseul\_CAL\_ALL\_Runtime\_x.x.xxx.x.CAB
- Model File ([Model Name\\_OPEN\\_CALIBRATION\\_Ver\\_3.1.302.2.CAB](#))

※ It is required to use the latest program.

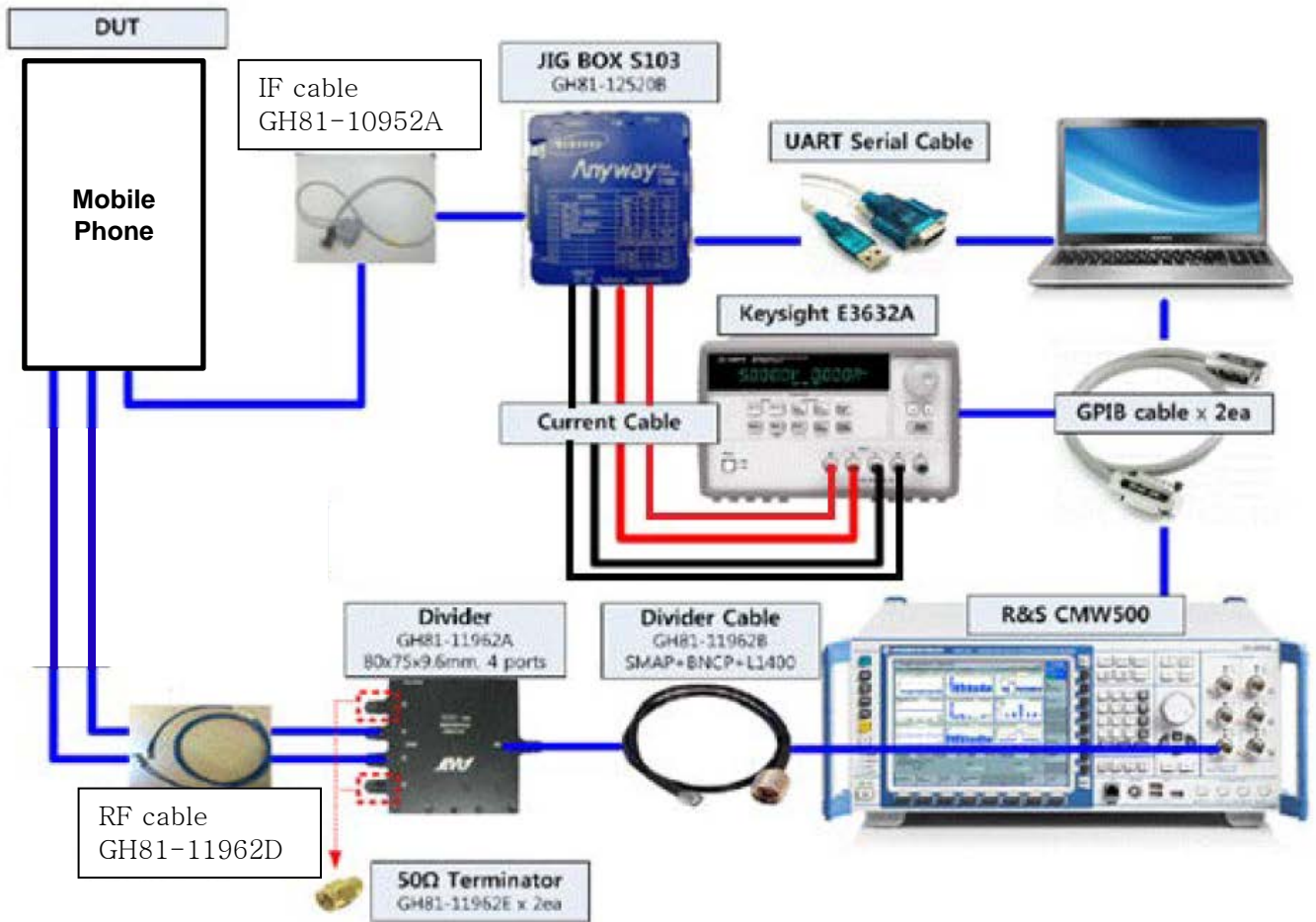
- Mobile Phone
- R&S CMW500
- E3632A Power Supply
- GPIB Cable (2ea)
- JIG BOX (GH81-12520B)
- Adapter (GH81-11888K)
- UART Serial Cable
- IF cable : GH81-10952A(7pin)

#### ❖ Table of test cables

<b>RF Cable (Manual)</b>		<b>GH81-11962D</b>	
		<b>1.2T, 102mm</b> 	
<b>4 Port Divider</b>	<b>GH81-11962A</b>	<b>GH81-11962B</b>	<b>GH81-11962E</b>
	<b>Divider</b> 	<b>Divider Cable</b> 	<b>50Ω terminator</b> 

## 6. Level 1 Repair






### ❖ Setting



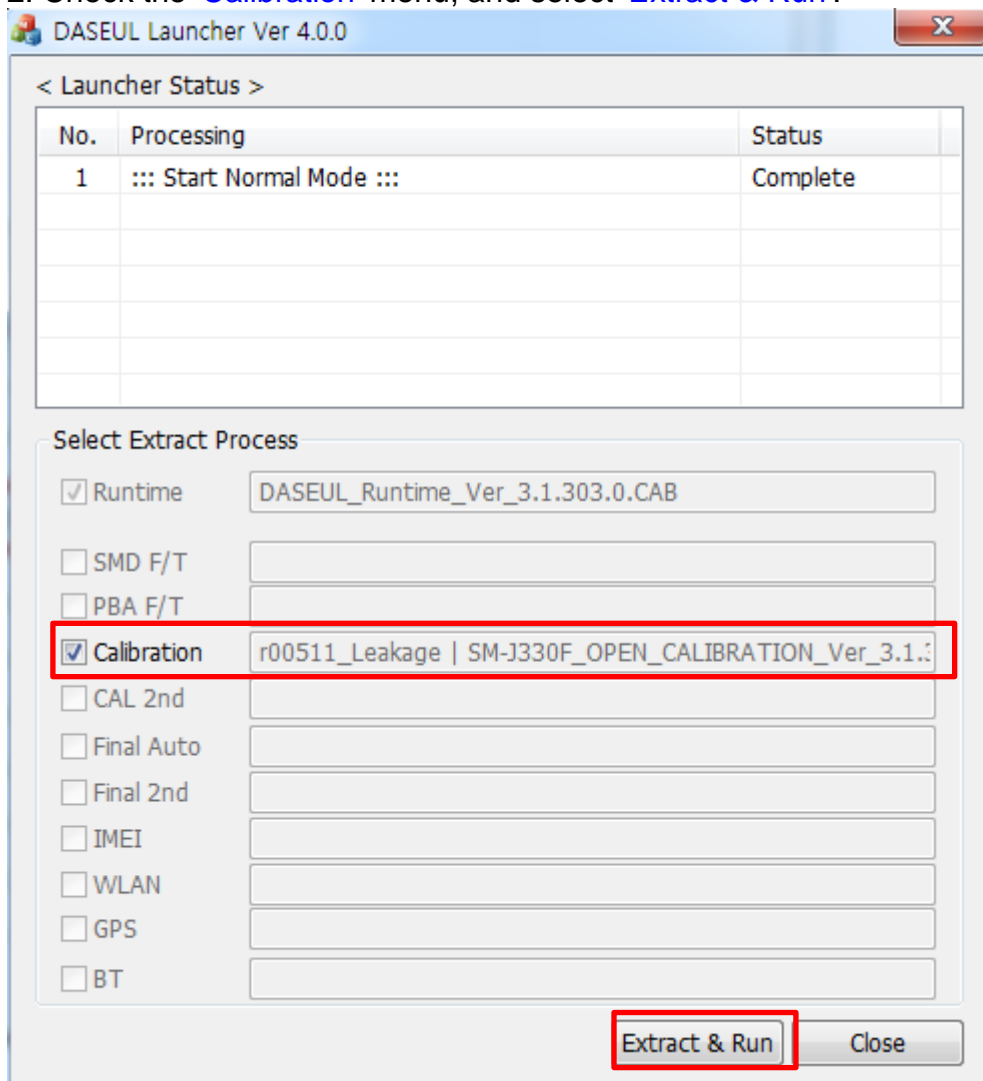
## 6. Level 1 Repair

### 6-3-2. RF Calibration Program

1. Run the RF Calibration Program Launcher, 'DASEUL\_Launcher\_vx.x.xx.exe'.

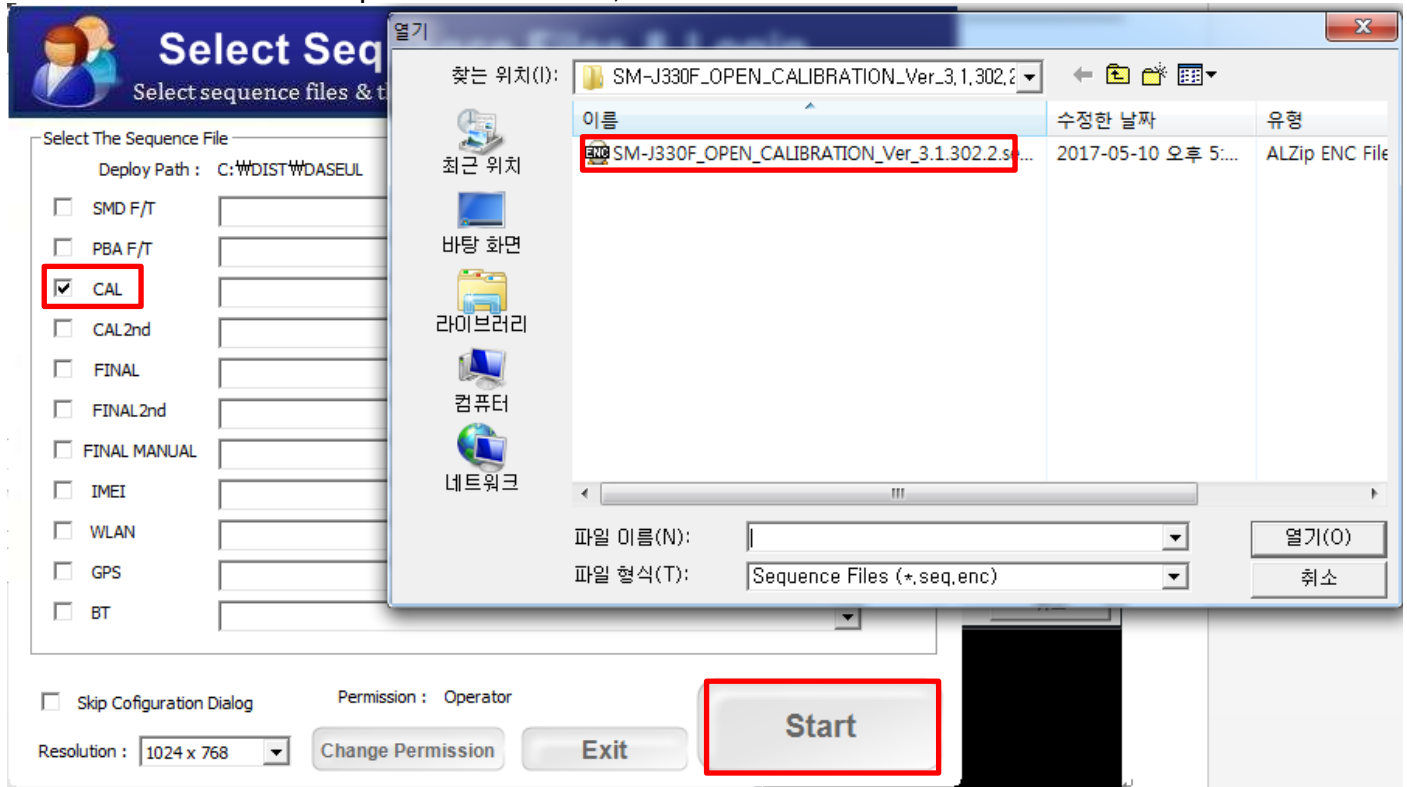
-  DASEUL\_CAL\_ALL\_Component\_r00511\_Leakage.CAB
-  DASEUL\_CAL\_ALL\_Runtime\_3.1.303.0\_r00511\_Leakage.CAB
-  DASEUL\_Launcher\_v4.0.0.exe
-  DASEUL\_Runtime\_Ver\_3.1.303.0.CAB
-  SM-J330F\_OPEN\_CALIBRATION\_Ver\_3.1.302.2.CAB

2. Check the 'Calibration' menu, and select 'Extract & Run'.



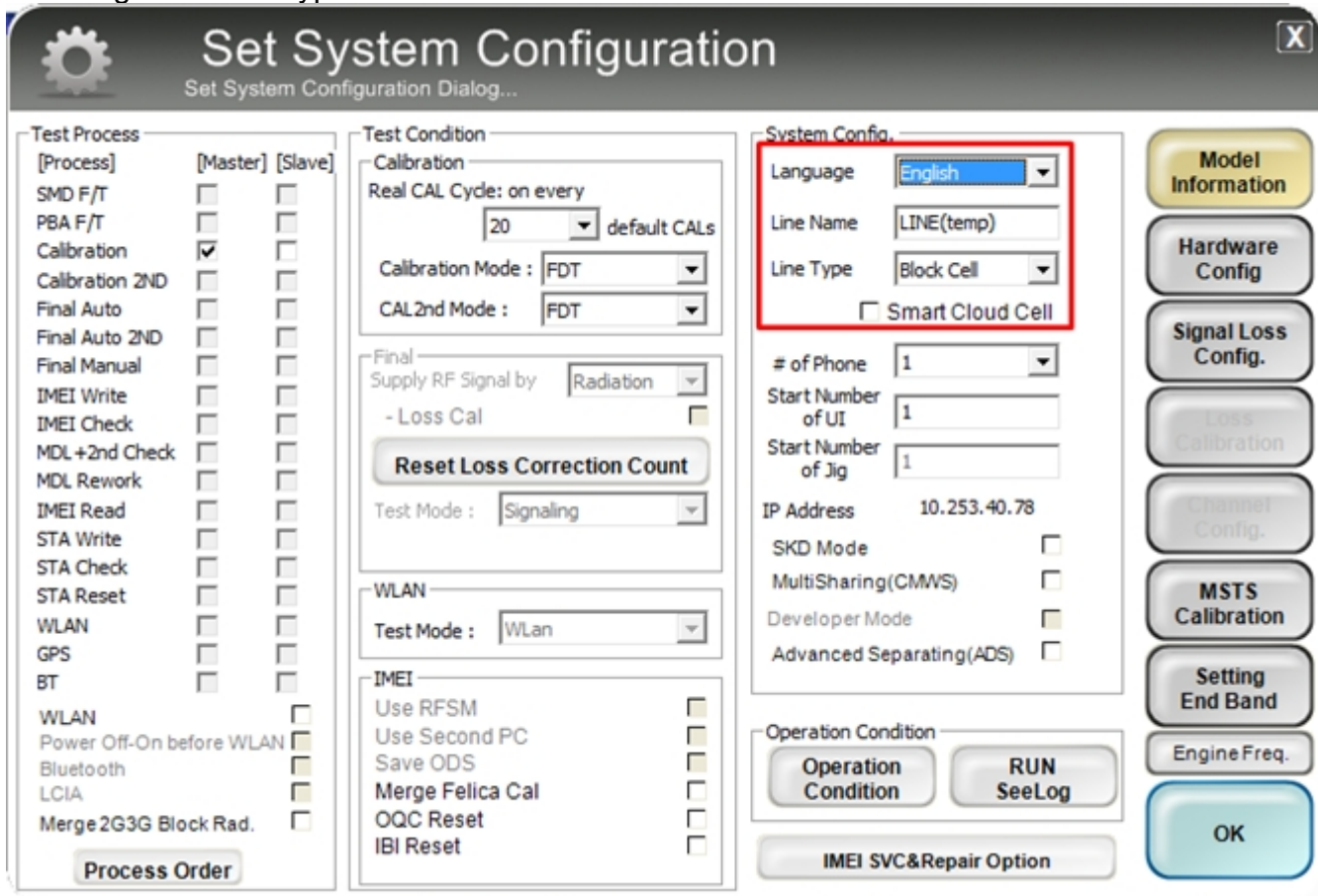
## 6. Level 1 Repair

3. Check the 'CAL' and open the [model file](#), then select 'Start' button.



## 6. Level 1 Repair

4. Change the Line Type to 'Block Cell' and disable 'Smart Cloud Cell'.



**Set System Configuration**  
Set System Configuration Dialog...

**Test Process**

[Process]	[Master]	[Slave]
SMD F/T	<input type="checkbox"/>	<input type="checkbox"/>
PBA F/T	<input type="checkbox"/>	<input type="checkbox"/>
Calibration	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Calibration 2ND	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto 2ND	<input type="checkbox"/>	<input type="checkbox"/>
Final Manual	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Write	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Check	<input type="checkbox"/>	<input type="checkbox"/>
MDL+2nd Check	<input type="checkbox"/>	<input type="checkbox"/>
MDL Rework	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Read	<input type="checkbox"/>	<input type="checkbox"/>
STA Write	<input type="checkbox"/>	<input type="checkbox"/>
STA Check	<input type="checkbox"/>	<input type="checkbox"/>
STA Reset	<input type="checkbox"/>	<input type="checkbox"/>
WLAN	<input type="checkbox"/>	<input type="checkbox"/>
GPS	<input type="checkbox"/>	<input type="checkbox"/>
BT	<input type="checkbox"/>	<input type="checkbox"/>
WLAN	<input type="checkbox"/>	<input type="checkbox"/>
Power Off-On before WLAN	<input type="checkbox"/>	<input type="checkbox"/>
Bluetooth	<input type="checkbox"/>	<input type="checkbox"/>
LCIA	<input type="checkbox"/>	<input type="checkbox"/>
Merge 2G3G Block Rad.	<input type="checkbox"/>	<input type="checkbox"/>

**Test Condition**

Calibration  
Real CAL Cycle: on every  default CALs

Calibration Mode :

CAL2nd Mode :

Final  
Supply RF Signal by

- Loss Cal

**Reset Loss Correction Count**

Test Mode :

WLAN  
Test Mode :

IMEI  
Use RFSM   
Use Second PC   
Save ODS   
Merge Felica Cal   
OQC Reset   
IBI Reset

**System Config.**

Language

Line Name

Line Type

Smart Cloud Cell

# of Phone

Start Number of UI

Start Number of Jig

IP Address

SKD Mode

MultiSharing(CMWS)

Developer Mode

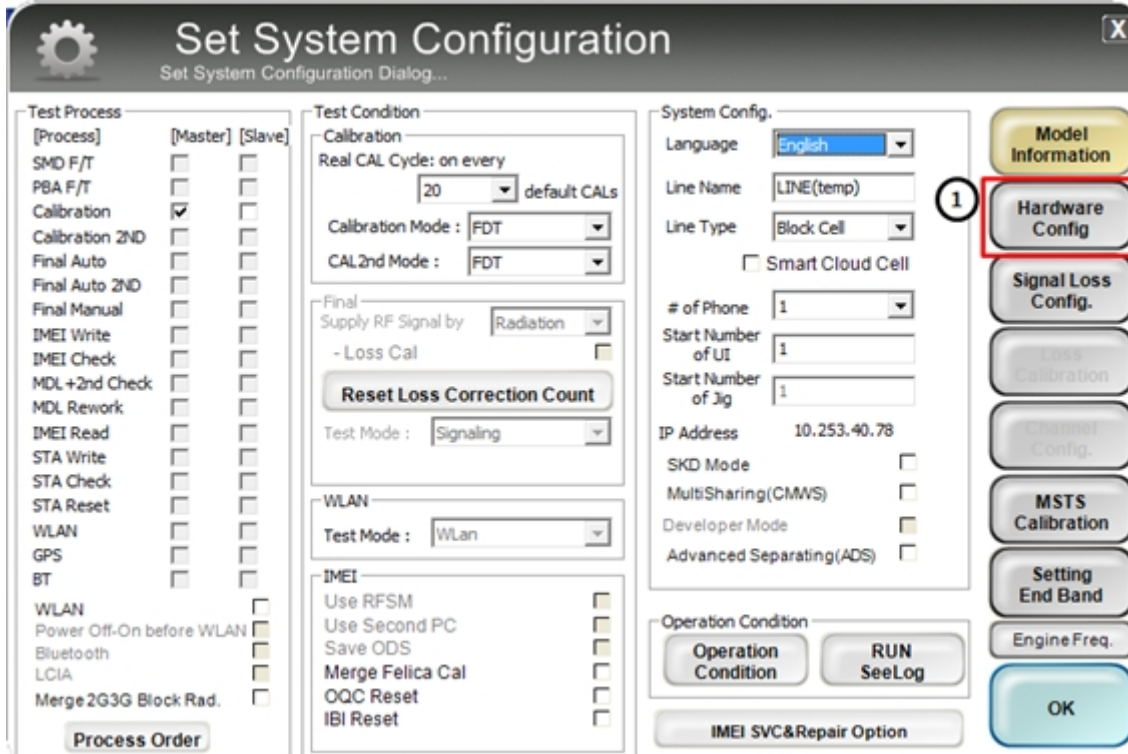
Advanced Separating(ADS)

**Operation Condition**

**Model Information**

## 6. Level 1 Repair

5. Set the GPIB address of MSTs(CMW500) and Power Supply(E3632A) to enter 'Hardware Config' and 'Save'. (Check the GPIB address of equipments in advance)



**Set System Configuration**  
Set System Configuration Dialog...

**Test Process**

[Process]	[Master]	[Slave]
SMD F/T	<input type="checkbox"/>	<input type="checkbox"/>
PBA F/T	<input type="checkbox"/>	<input type="checkbox"/>
Calibration	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Calibration 2ND	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto 2ND	<input type="checkbox"/>	<input type="checkbox"/>
Final Manual	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Write	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Check	<input type="checkbox"/>	<input type="checkbox"/>
MDL +2nd Check	<input type="checkbox"/>	<input type="checkbox"/>
MDL Rework	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Read	<input type="checkbox"/>	<input type="checkbox"/>
STA Write	<input type="checkbox"/>	<input type="checkbox"/>
STA Check	<input type="checkbox"/>	<input type="checkbox"/>
STA Reset	<input type="checkbox"/>	<input type="checkbox"/>
WLAN	<input type="checkbox"/>	<input type="checkbox"/>
GPS	<input type="checkbox"/>	<input type="checkbox"/>
BT	<input type="checkbox"/>	<input type="checkbox"/>
WLAN	<input type="checkbox"/>	<input type="checkbox"/>
Power Off-On before WLAN	<input type="checkbox"/>	<input type="checkbox"/>
Bluetooth	<input type="checkbox"/>	<input type="checkbox"/>
LCIA	<input type="checkbox"/>	<input type="checkbox"/>
Merge 2G3G Block Rad.	<input type="checkbox"/>	<input type="checkbox"/>

**Test Condition**

Calibration  
Real CAL Cycle: on every  
20 default CALs  
Calibration Mode: FDT  
CAL2nd Mode: FDT

Final  
Supply RF Signal by: Radiation  
- Loss Cal  
Reset Loss Correction Count  
Test Mode: Signaling

WLAN  
Test Mode: WLAN

IMEI  
Use RFSM  
Use Second PC  
Save ODS  
Merge Felica Cal  
OQC Reset  
IBI Reset

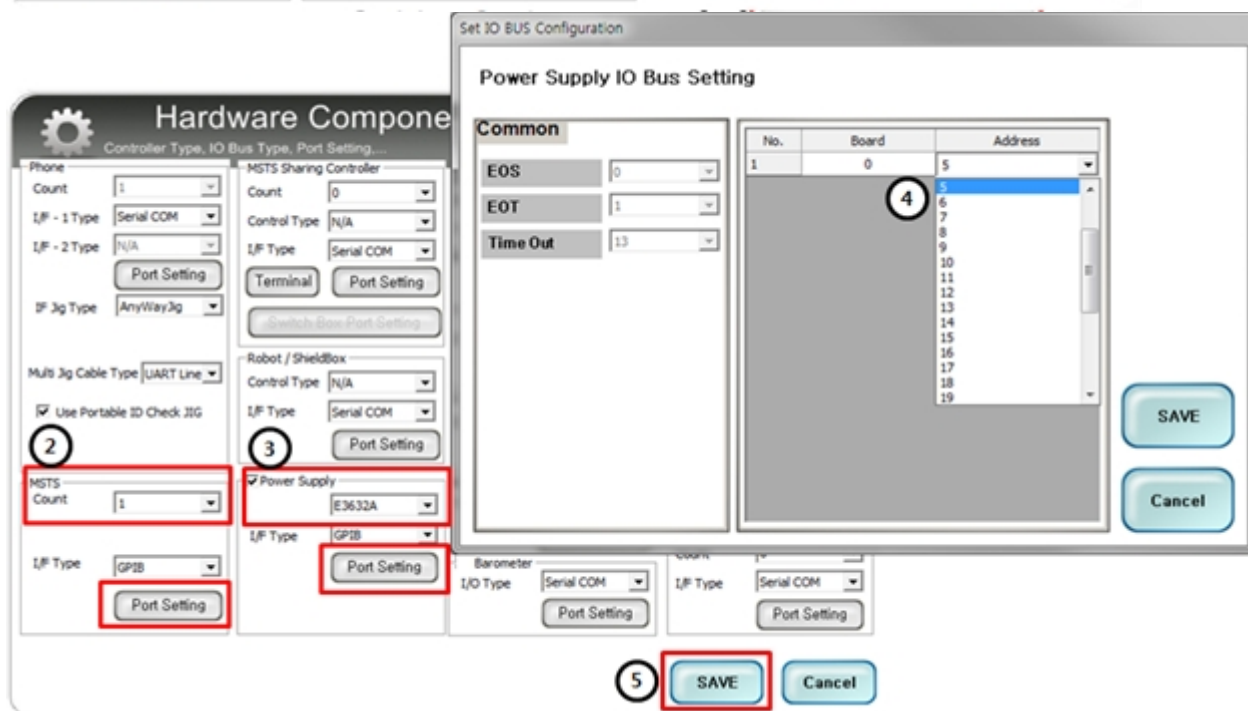
**System Config.**

Language: English  
Line Name: LINE(temp)  
Line Type: Block Cell  
Smart Cloud Cell:

# of Phone: 1  
Start Number of UT: 1  
Start Number of Jig: 1  
IP Address: 10.253.40.78  
SKD Mode:   
MultiSharing(CMWS):   
Developer Mode:   
Advanced Separating(ADS):

**Operation Condition**  
RUN SeeLog  
IMEI SVC&Repair Option

**Model Information**  
Hardware Config  
Signal Loss Config.  
Loss Calibration  
Channel Config.  
MSTS Calibration  
Setting End Band  
Engine Freq.  
OK



**Hardware Component**  
Controller Type, IO Bus Type, Port Setting...

Phone  
Count: 1  
I/F - 1 Type: Serial COM  
I/F - 2 Type: N/A  
I/F Jig Type: AnyWayJig  
Multi Jig Cable Type: UART Line  
Use Portable ID Check JIG:

MSTS Sharing Controller  
Count: 0  
Control Type: N/A  
I/F Type: Serial COM  
Terminal  
Port Setting  
Switch Base Port Setting

Robot / ShieldBox  
Control Type: N/A  
I/F Type: Serial COM  
Port Setting

Power Supply  
E3632A  
I/F Type: GPIB  
Port Setting

MSTS Count: 1  
I/F Type: GPIB  
Port Setting

Barometer  
I/O Type: Serial COM  
Port Setting

Cooling  
I/F Type: Serial COM  
Port Setting

**Power Supply IO Bus Setting**

Common  
EOS: 0  
EOT: 1  
Time Out: 13

No.	Board	Address
1	0	5
2		6
3		7
4		8
5		9
6		10
7		11
8		12
9		13
10		14
11		15
12		16
13		17
14		18
15		19

SAVE  
Cancel

SAVE  
Cancel



## 6. Level 1 Repair

6. Press 'OK' to start RF Calibration after completing all settings.

