



## **Software update procedure – Viper E Android™ 5.0, Lollipop**

These are the advantages of updating the soft:

- *Updating the operating system from Android 4.4 KitKat to Android 5.1 Lollipop;*
- *Find a major change of the interface(design): natural moves, shadows and several visual effects etc;*
- *For preinstalled apps a change of interfaces: dialling display, settings, camera menu, shortcuts etc;*
- *A more efficient resources management ;*

 ATTENTION! The battery must be fully charged, and the phone must be turned off when initializing the procedure.

 ATTENTION! Do not interrupt the updating operation under any circumstances.

 ATTENTION! Updating the operating system will lead to total removal of personal information and installed apps.

1. Download the archives: “**Update\_5.0\_Viper\_E\_15.09.2015**”, “**SP\_MDT\_exe\_v3.1540.00.00**” and “**Driver.zip**” on a desktop or laptop. Unzip into a folder all 3 archives from above.
2. From **Driver** folder, install all necessary drivers. They are compatible with Windows XP, Windows 7, Windows 8, Windows 10. Open the  **UsbDriverSetup** executable and follow the steps to install the driver.
3. In “**SP\_MDT\_exe\_v3.1540.00.00**” folder, double-click on the **SPMultiPortFlashDownloadProject** executable and **Open**, then make sure that **ScanComportType=1** , save (**File – Save**) and close document as shown below:



SP\_MDT\_exe\_v3.1540.00.00

File Home Share View

Local Disk (C:) > SP\_MDT\_exe\_v3.1540.00.00

Name	Date modified	Type	Size
Microsoft.VC90.CRT.manifest	9/28/2015 3:55 PM	MANIFEST File	1 KB
miodll.dll			
msvc90.dll			
msvcp90.dll			
msvcr90.dll			
MTK AllInOne DA.bin			
MTK_DATABASE			
NVRAM_BACKUP			
protected_region			
readback			
setting			
SLA_Challenge.dll			
SLA_Challenge.lib			
SP_META_Wrapper.dll			
SPBootMode.dll			
SPMETA_DLL.dll			
SPMultiPortFlashDownloadProject.c...			
SPMultiPortFlashDownloadProject			
SPMultiPortFlashDownloadProject.lib	9/28/2015 5:34 PM	LIB File	14 KB
SPMultiPortFlashDownloadProject.map	9/28/2015 5:34 PM	MAP File	1,827 KB

43 items | 1 item selected | 3.03 KB

- Open
- Print
- Edit
- Scan with AVG
- Permanently shred with AVG
- Open with
- Add to archive...
- Add to "SPMultiPortFlashDownloadProject.rar"
- Compress and email...
- Compress to "SPMultiPortFlashDownloadProject.rar" and email
- Send to
- Cut
- Copy
- Create shortcut
- Delete
- Rename
- Properties

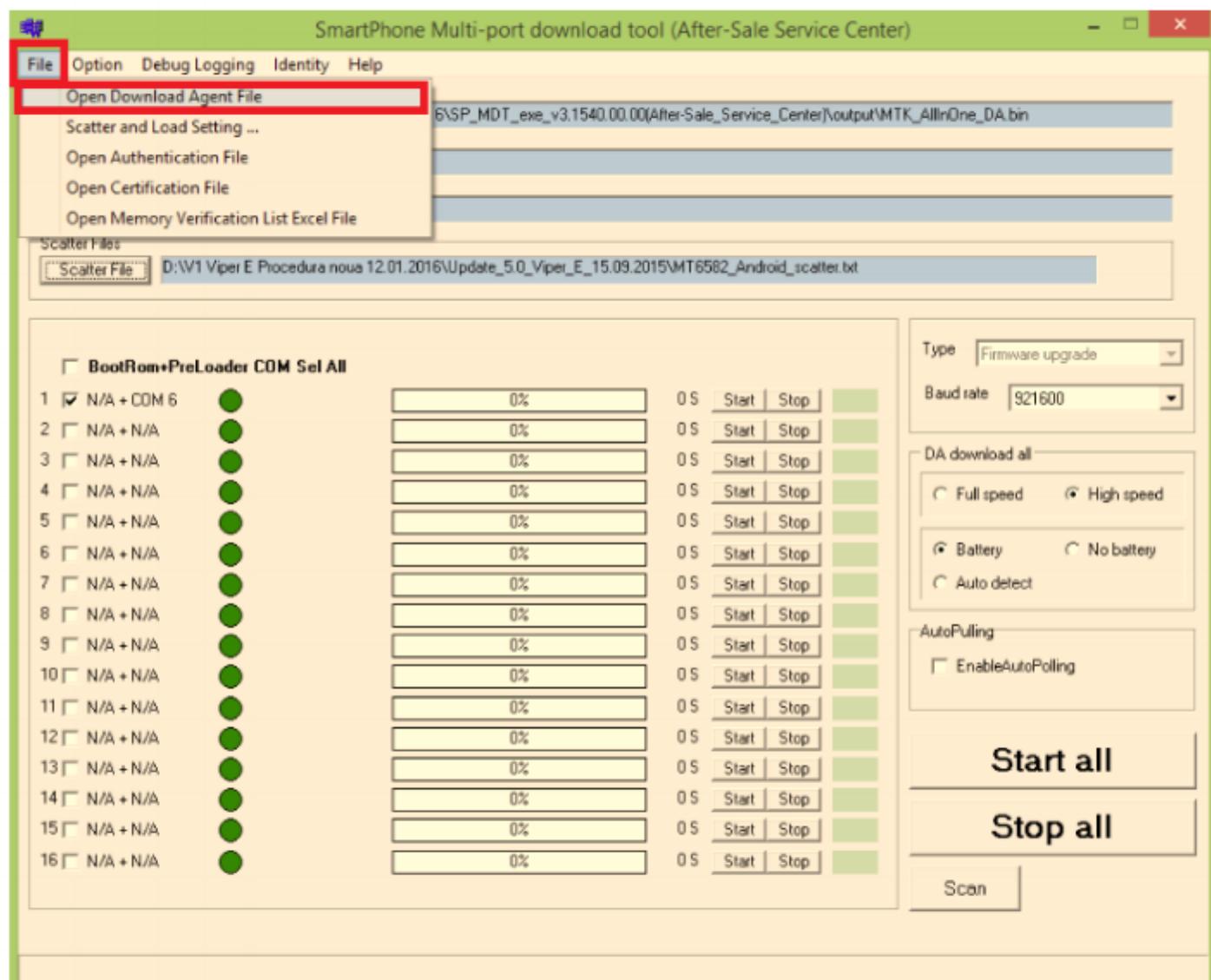


```
SPMultiPortFlashDownloadProject - Notepad
File Edit Format View Help
[form]
Baseband chip=auto detect
External clock=26mhz
BRCM_DLL logging=yes
META_DLL logging=yes
Eboot_DLL logging=yes
Baudrate=921600
ComportEnabled=0x01
Auto polling enabled=0
Auto polling count=0
Type=Firmware upgrade
Force_ALL_IMAGE_DL=yes
Force_Checksum_Version=V1
Auth file=
Cert file=
Format FAT range=auto
ScanComportType=1
ForceWatchdogReset=no
ForceWatchdogResetTimeout=0
Enable_Secro_Reworking_Feature=no
```



4. In "SP\_MDT\_exe\_v3.1540.00.00" folder, double-click on the **SPMultiPortFlashDownloadProject** executable

5. Click on the **File** option of **SP\_MDT\_exe\_v3.1540.00.00** and select **MTK\_AllInOne\_DA.bin** file from **SP\_MDT\_exe\_v3.1540.00.00** folder, as shown below:





SmartPhone Multi-port download tool (After-Sale Service Center)

File Option Debug Logging Identity Help

DA file name D:\...  
Authentication file ...  
Certification File ...  
Scatter Files  
Scatter File D:\...

BootRom+P...  
1  N/A + COM 6  
2  N/A + N/A  
3  N/A + N/A  
4  N/A + N/A  
5  N/A + N/A  
6  N/A + N/A  
7  N/A + N/A  
8  N/A + N/A  
9  N/A + N/A  
10  N/A + N/A  
11  N/A + N/A  
12  N/A + N/A  
13  N/A + N/A  
14  N/A + N/A  
15  N/A + N/A  
16  N/A + N/A

Progress	Port	Speed	Start	Stop	Status
0%	U3	0 S	Start	Stop	Green
0%	0 S	0 S	Start	Stop	Green
0%	0 S	0 S	Start	Stop	Green
0%	0 S	0 S	Start	Stop	Green
0%	0 S	0 S	Start	Stop	Green
0%	0 S	0 S	Start	Stop	Green
0%	0 S	0 S	Start	Stop	Green
0%	0 S	0 S	Start	Stop	Green
0%	0 S	0 S	Start	Stop	Green
0%	0 S	0 S	Start	Stop	Green

Firmware upgrade  
Rate 921600  
Download all  
Full speed  High speed  
Battery  No battery  
Auto detect  
...ing  
enableAutoPolling

**Start all**  
**Stop all**  
Scan

Open

Look in: output

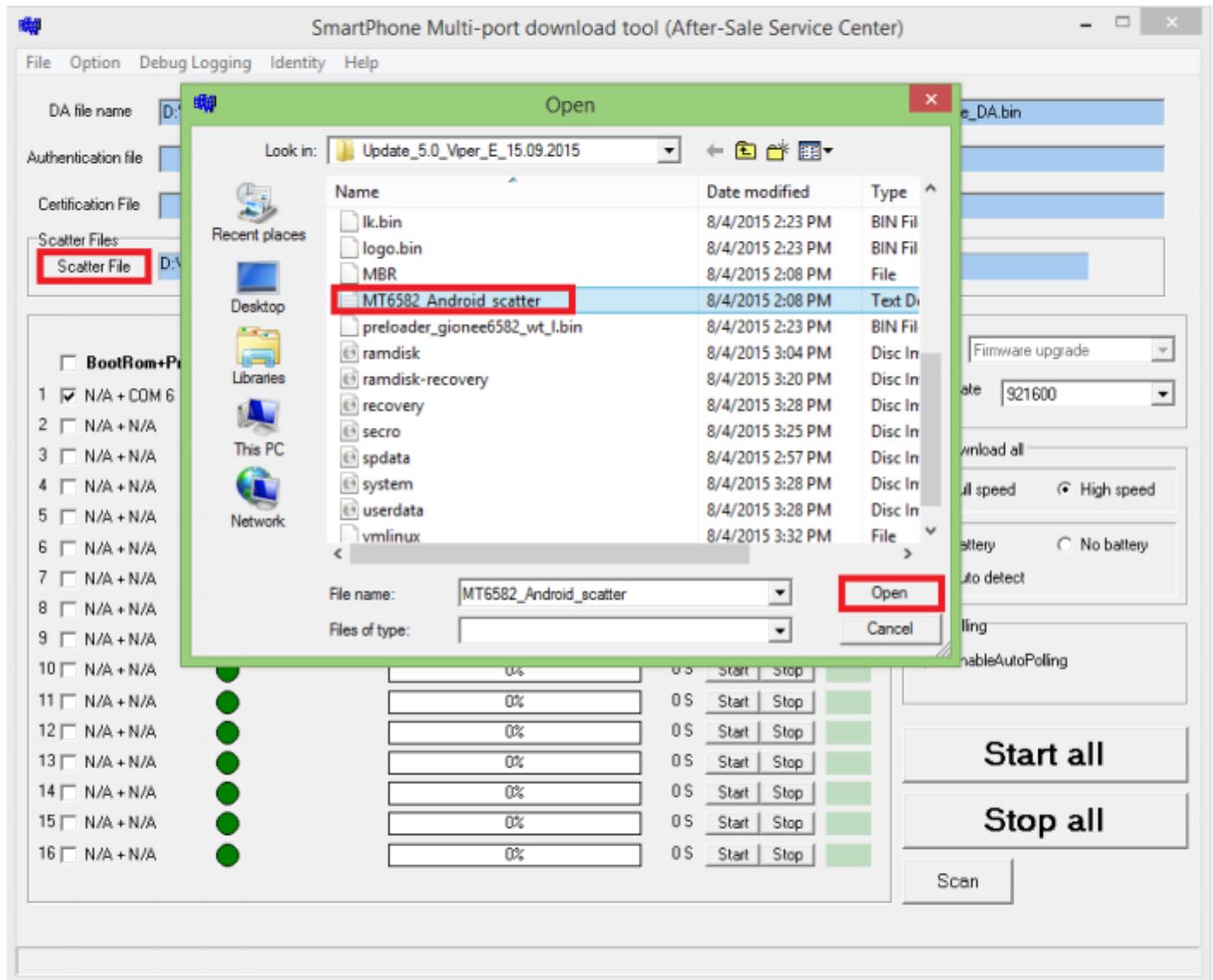
Name	Date modified	Type
backup_and_restore_data	9/28/2015 3:55 PM	File folder
Document	1/12/2016 2:23 PM	File folder
<b>MTK_AllInOne_DA.bin</b>	9/28/2015 2:34 PM	BIN File

File name: MTK\_AllInOne\_DA  
Files of type: Bin File (\*.bin)

**Open** Cancel



6. Click on the **Scatter-File** option of the tool's flash and select **MT6582\_Android\_scatter** file from **Update\_5.0\_Viper\_E\_15.09.2015** folder, and scan the phone as shown below:





7. To detect the USB port, click **SCAN** button and connect the phone while turned off:

SmartPhone Multi-port download tool (After-Sale Service Center)

File Option Debug Logging Identity Help

DA file name: D:\W1 Viper E Procedura noua 12.01.2016\SP\_MDT\_exe\_v3.1540.00.00\After-Sale\_Service\_Center\output\MTK\_AllInOne\_DA.bin

Authentication file:

Certification File:

Scatter Files:

Scatter File: D:\W1 Viper E Procedura noua 12.01.2016\Update\_5.0\_Viper\_E\_15.09.2015\MT6582\_Android\_scatter.txt

BootRom+PreL

1	<input checked="" type="checkbox"/>	N/A + COM 6	●	0%	0 S	Start	Stop	●
2	<input type="checkbox"/>	N/A + N/A	●	0%	0 S	Start	Stop	●
3	<input type="checkbox"/>	N/A + N/A	●	0%	0 S	Start	Stop	●
4	<input type="checkbox"/>	N/A + N/A	●	0%	0 S	Start	Stop	●
5	<input type="checkbox"/>	N/A + N/A	●	0%	0 S	Start	Stop	●
6	<input type="checkbox"/>	N/A + N/A	●	0%	0 S	Start	Stop	●
7	<input type="checkbox"/>	N/A + N/A	●	0%	0 S	Start	Stop	●
8	<input type="checkbox"/>	N/A + N/A	●	0%	0 S	Start	Stop	●
9	<input type="checkbox"/>	N/A + N/A	●	0%	0 S	Start	Stop	●
10	<input type="checkbox"/>	N/A + N/A	●	0%	0 S	Start	Stop	●
11	<input type="checkbox"/>	N/A + N/A	●	0%	0 S	Start	Stop	●
12	<input type="checkbox"/>	N/A + N/A	●	0%	0 S	Start	Stop	●
13	<input type="checkbox"/>	N/A + N/A	●	0%	0 S	Start	Stop	●
14	<input type="checkbox"/>	N/A + N/A	●	0%	0 S	Start	Stop	●
15	<input type="checkbox"/>	N/A + N/A	●	0%	0 S	Start	Stop	●
16	<input type="checkbox"/>	N/A + N/A	●	0%	0 S	Start	Stop	●

Type: Firmware upgrade

Baud rate: 921600

DA download all:

Full speed  High speed

Battery  No battery

Auto detect

AutoPulling:

EnableAutoPolling

Start all

Stop all

Scan



SmartPhone Multi-port download tool (After-Sale Service Center)

File Option Debug Logging Identity Help

DA file name: D:\V1 Viper E Procedura noua 12.01.2016\SP\_MDT\_exe\_v3.1540.00.00(After-Sale\_Service\_Center)\output\MTK\_AllInOne\_DA.bin

Authentication file: [Empty]

Certification File: [Empty]

Scatter Files:  
Scatter File: D:\V1 Viper E Procedura noua 12.01.2016\Update\_5.0\_Viper\_E\_15.09.2015\MT6582\_Android\_scatter.txt

BootRom+PreLoader COM Sel All

Port	Device	Status	Progress	Speed	Start	Stop	Indicator
1	<input checked="" type="checkbox"/> N/A + COM 8	Scan Success!	100%	0 S	Start	Stop	Green
2	<input type="checkbox"/> N/A + N/A		0%	0 S	Start	Stop	Green
3	<input type="checkbox"/> N/A + N/A		0%	0 S	Start	Stop	Green
4	<input type="checkbox"/> N/A + N/A		0%	0 S	Start	Stop	Green
5	<input type="checkbox"/> N/A + N/A		0%	0 S	Start	Stop	Green
6	<input type="checkbox"/> N/A + N/A		0%	0 S	Start	Stop	Green
7	<input type="checkbox"/> N/A + N/A		0%	0 S	Start	Stop	Green
8	<input type="checkbox"/> N/A + N/A		0%	0 S	Start	Stop	Green
9	<input type="checkbox"/> N/A + N/A		0%	0 S	Start	Stop	Green
10	<input type="checkbox"/> N/A + N/A		0%	0 S	Start	Stop	Green
11	<input type="checkbox"/> N/A + N/A		0%	0 S	Start	Stop	Green
12	<input type="checkbox"/> N/A + N/A		0%	0 S	Start	Stop	Green
13	<input type="checkbox"/> N/A + N/A		0%	0 S	Start	Stop	Green
14	<input type="checkbox"/> N/A + N/A		0%	0 S	Start	Stop	Green
15	<input type="checkbox"/> N/A + N/A		0%	0 S	Start	Stop	Green
16	<input type="checkbox"/> N/A + N/A		0%	0 S	Start	Stop	Green

Type: Firmware upgrade  
Baud rate: 921600

DA download all:  
 Full speed  High speed  
 Battery  No battery  
 Auto detect

AutoPolling:  
 EnableAutoPolling

Start all  
Stop all  
Scan

 **ATTENTION!** In case that the USB port hasn't been detected make sure you have followed the steps from Step 3.



8. After scanning the port, unplug the mobile, click **Start all** and reconnect the phone, while turned off, to the same USB port.(see image below)

SmartPhone Multi-port download tool (After-Sale Service Center)

File Option Debug Logging Identity Help

DA file name: D:\V1 Viper E Procedura noua 12.01.2016\SP\_MDT\_exe\_v3.1540.00.00(After-Sale\_Service\_Center)\output\MTK\_AllInOne\_DA.bin

Authentication file: [Empty]

Certification File: [Empty]

Scatter Files

Scatter File: D:\V1 Viper E Procedura noua 12.01.2016\Update\_5.0\_Viper\_E\_15.09.2015\MT6582\_Android\_scatter.bt

BootRom+PreLoader COM Sel All

Port	Device	Progress	Time	Start	Stop	Status
1	<input checked="" type="checkbox"/> N/A + COM 8	0%	0 S	Start	Stop	Green
2	<input type="checkbox"/> N/A + N/A	0%	0 S	Start	Stop	Green
3	<input type="checkbox"/> N/A + N/A	0%	0 S	Start	Stop	Green
4	<input type="checkbox"/> N/A + N/A	0%	0 S	Start	Stop	Green
5	<input type="checkbox"/> N/A + N/A	0%	0 S	Start	Stop	Green
6	<input type="checkbox"/> N/A + N/A	0%	0 S	Start	Stop	Green
7	<input type="checkbox"/> N/A + N/A	0%	0 S	Start	Stop	Green
8	<input type="checkbox"/> N/A + N/A	0%	0 S	Start	Stop	Green
9	<input type="checkbox"/> N/A + N/A	0%	0 S	Start	Stop	Green
10	<input type="checkbox"/> N/A + N/A	0%	0 S	Start	Stop	Green
11	<input type="checkbox"/> N/A + N/A	0%	0 S	Start	Stop	Green
12	<input type="checkbox"/> N/A + N/A	0%	0 S	Start	Stop	Green
13	<input type="checkbox"/> N/A + N/A	0%	0 S	Start	Stop	Green
14	<input type="checkbox"/> N/A + N/A	0%	0 S	Start	Stop	Green
15	<input type="checkbox"/> N/A + N/A	0%	0 S	Start	Stop	Green
16	<input type="checkbox"/> N/A + N/A	0%	0 S	Start	Stop	Green

Type: Firmware upgrade

Baud rate: 921600

DA download all

Full speed  High speed

Battery  No battery

Auto detect

AutoPulling

EnableAutoPolling

**Start all**

Stop all

Scan



9. The tool will automatically detect the USB port on which the phone was connected (to desktop or laptop) and the softing will automatically start, as in the image shown below:

SmartPhone Multi-port download tool (After-Sale Service Center)

File Option Debug Logging Identity Help

DA file name: D:\W1 Viper E Procedura noua 12.01.2016\SP\_MDT\_exe\_v3.1540.00.00(After-Sale\_Service\_Center)\output\MTK\_AllInOne\_DA.bin

Authentication file: [Empty]

Certification File: [Empty]

Scatter Files: Scatter File D:\W1 Viper E Procedura noua 12.01.2016\Update\_5.0\_Viper\_E\_15.09.2015\MT6582\_Android\_scatter.txt

Item	Check	Label	Status	DL	Progress	Time	Start	Stop	Indicator
1	<input checked="" type="checkbox"/>	N/A + COM 8	●	DL	6%	24 S	Start	Stop	Green
2	<input type="checkbox"/>	N/A + N/A	●		0%	0 S	Start	Stop	Green
3	<input type="checkbox"/>	N/A + N/A	●		0%	0 S	Start	Stop	Green
4	<input type="checkbox"/>	N/A + N/A	●		0%	0 S	Start	Stop	Green
5	<input type="checkbox"/>	N/A + N/A	●		0%	0 S	Start	Stop	Green
6	<input type="checkbox"/>	N/A + N/A	●		0%	0 S	Start	Stop	Green
7	<input type="checkbox"/>	N/A + N/A	●		0%	0 S	Start	Stop	Green
8	<input type="checkbox"/>	N/A + N/A	●		0%	0 S	Start	Stop	Green
9	<input type="checkbox"/>	N/A + N/A	●		0%	0 S	Start	Stop	Green
10	<input type="checkbox"/>	N/A + N/A	●		0%	0 S	Start	Stop	Green
11	<input type="checkbox"/>	N/A + N/A	●		0%	0 S	Start	Stop	Green
12	<input type="checkbox"/>	N/A + N/A	●		0%	0 S	Start	Stop	Green
13	<input type="checkbox"/>	N/A + N/A	●		0%	0 S	Start	Stop	Green
14	<input type="checkbox"/>	N/A + N/A	●		0%	0 S	Start	Stop	Green
15	<input type="checkbox"/>	N/A + N/A	●		0%	0 S	Start	Stop	Green
16	<input type="checkbox"/>	N/A + N/A	●		0%	0 S	Start	Stop	Green

Type: Firmware upgrade

Baud rate: 921600

DA download all: Full speed, High speed, Battery, No battery, Auto detect

AutoPulling: EnableAutoPolling

Start all

Stop all

Scan

Format EMMC flash: begin\_addr(0x0000000025A0000), length(0x00000001CEDE0000). Auto Polling number:0



10. The completion of software writing will be notified with **PASS** message, as shown below:

The screenshot shows the 'SmartPhone Multi-port download tool (After-Sale Service Center)' interface. The 'Debug Logging' tab is active. The 'DA file name' is 'D:\W1 Viper E Procedura noua 12.01.2016\SP\_MDT\_exe\_v3.1540.00.00(After-Sale\_Service\_Center)\output\MTK\_AllInOne\_DA.bin'. The 'Scatter File' is 'D:\W1 Viper E Procedura noua 12.01.2016\Update\_5.0\_Viper\_E\_15.09.2015\MT6582\_Android\_scatter.txt'. The 'Type' is 'Firmware upgrade' and the 'Baud rate' is '921600'. The 'DA download all' section has 'High speed' selected and 'Battery' selected. The 'AutoPulling' section has 'EnableAutoPolling' unchecked. The 'Start all' and 'Stop all' buttons are visible. The status bar at the bottom shows 'Format EMMC flash: begin\_addr(0x0000000025A0000), length(0x00000001CEDE0000). Auto Polling number:0'.

COM	Device	Status	Progress	Time	Start	Stop	Result
1	<input checked="" type="checkbox"/> N/A + COM 8	●	100%	204 S	Start	Stop	PASS
2	<input type="checkbox"/> N/A + N/A	●	0%	0 S	Start	Stop	
3	<input type="checkbox"/> N/A + N/A	●	0%	0 S	Start	Stop	
4	<input type="checkbox"/> N/A + N/A	●	0%	0 S	Start	Stop	
5	<input type="checkbox"/> N/A + N/A	●	0%	0 S	Start	Stop	
6	<input type="checkbox"/> N/A + N/A	●	0%	0 S	Start	Stop	
7	<input type="checkbox"/> N/A + N/A	●	0%	0 S	Start	Stop	
8	<input type="checkbox"/> N/A + N/A	●	0%	0 S	Start	Stop	
9	<input type="checkbox"/> N/A + N/A	●	0%	0 S	Start	Stop	
10	<input type="checkbox"/> N/A + N/A	●	0%	0 S	Start	Stop	
11	<input type="checkbox"/> N/A + N/A	●	0%	0 S	Start	Stop	
12	<input type="checkbox"/> N/A + N/A	●	0%	0 S	Start	Stop	
13	<input type="checkbox"/> N/A + N/A	●	0%	0 S	Start	Stop	
14	<input type="checkbox"/> N/A + N/A	●	0%	0 S	Start	Stop	
15	<input type="checkbox"/> N/A + N/A	●	0%	0 S	Start	Stop	
16	<input type="checkbox"/> N/A + N/A	●	0%	0 S	Start	Stop	

**ATTENTION!** Do not interrupt the writing software operation under any circumstances. This operation is made on your own risk, by following precisely all the steps from above.

**ATTENTION!** The first sequence of boot-ing, after re-writing the software, can take up to 10 minutes.