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Smart Phone Flash Tool also known as SP Flash Tool is a Desktop application used to flash firmware to Mediatek (MTK) Android devices. Its a pretty easy tool to use but you're bound to encounter one error or the other at certain points in your flashing experience. This guide is dedicated to listing errors / problems you might encounter when using SP Flash tool, what they mean / indicate and what steps you can take to fix / resolve them. Just in case you don't know how to use SP Flash tool , please see the video below to get a good insight into how the tool works in order to boost your chances of success. List of SP Flash Tool errors & their solutions Important Notice (PLEASE READ BEFORE YOU PROCEED) We have neatly arranged each error into error code, message, meaning and solution. In order to easily find the solution to the error you're getting, use the 'Find in page' option in your browser to search for the error code e.g 4032 . This will save you the stress of endlessly scrolling and accidentally scrolling past the SP Flash Tool error you're looking for. Below is a list of SP Flash Tool errors, their meanings and how to resolve them Phone is totally dead Message: Phone no longer responds to power button Solution: Follow this guide @ Phone still not working after flashing: Phone still stuck at Bootloop or Bootloop Solution: Ensure there's a formatted SD card in the phone before flashing Give up to 5 minutes because first boot takes time Boot the phone into recovery mode then wipe data / factory reset Remove the battery for 30 seconds then slot back in Try a firmware upgrade . use MTK droid tools version 2.3.0 to backup usrdata & cache or copy then from the clockworkmod backup Try a firmware / ROM from another source Phone shows white screen, strange colors or divided screen after flashing Message: You can see the phone responding to buttons and making sound but all is blurred by white screen Solution: The ROM / Firmware you flashed is incompatible, get from another source (especially boot.img , logo.bin and uboot.bin / lk.bin) Phone automatically disconnecting during flashing Message: The phone makes the disconnecting sound just as flashing begins, interrupting the process Solution: Try a different USB cord, USB port & PC Try holding down the Volume decrease (you could try volume increase or both) while connecting the phone to PC for flashing Launch Device manager (Right-click My Computer > Select Manage) Connect the phone to the PC via a USB cord, Device manager should refresh Take note of what the phone is detected as (often as Unknown or Mediatek under Other devices) Right-click whatever the phone is detect as and select Update Driver Software... Select Browse my computer for driver software Select Let me pick from a list of device drivers on my computer Click Next Click Have Disk Proceed with the Mediatek (VCOM) driver installation steps described at and click Yes if you get an Update Driver warning Sp Flash tool remains at 0% Message: Phone only shows charging sign Meaning: Necessary drivers have not been successfully installed on the PC Solution: Follow this guide @ to manually install vcom drivers If you have installed VCOM drivers but the phone is still only charging then Launch Device manager (Right-click My Computer > Select Manage) Connect the phone to the PC via a USB cord, Device manager should refresh Take note of what the phone is detected as (often as Unknown or Mediatek under Other devices) Right-click whatever the phone is detect as and select Update Driver Software... Select Browse my computer for driver software Select Let me pick from a list of device drivers on my computer Click Next Click Have Disk Proceed with the Mediatek (VCOM) driver installation steps described at and click Yes if you get an Update Driver warning Stuck at Download DA 100% Message: Download DA 100% Meaning: SP Flash tool is having trouble communicating with the device Solution: Uninstall and re-install Mediatek drivers Error 5054 Message: BROM ERROR S_DL_GET_DRAM_SETTINGS_FAIL (5054) Meaning: The files you're trying to flash do not belong to or are not compatible with the phone you're trying to flash them to OR if you're getting the error while trying to format then it's likely you only loaded scatter file without the rest of the files in the firmware Solution: If you're trying to flash firmware, then ensure you're using the correct files. If you're sure they are, then try formatting before flashing again If you're trying to format, then ensure you the scatter file you loaded onto SP flash tool has complete firmware file locations Initialize scatter failed Message: Error: Initialize scatter file failed. Please check the scatter file name you load is legal Meaning: SP Flash tool doesn't accept the name format of your scatter file Solution: Ensure the scatter file wasn't renamed. If you're certain it wasn't, try a higher version of SP Flash tool Error 8038 Message: Error 8038! Android download_pmt is ready and layout has been changed Meaning: SP Flash tool is having trouble writing to certain partitions due to some incompatibility Solution: Format the phone in SP flash tool (Do not format Bootloader) then try flashing the files again using Download If Download doesnt work then do a firmware upgrade If the MTK backup contains more than one scatter file, retry flashing with the other scatter file. If that isn't feasible, try formatting first or use firmware upgrade If that doesn't work, open the scatter file using Notepad++ and change "__NODL_FAT to FAT by removing "__NODL_". Error 4032 Message: BROM ERROR : S_FT_ENABLE_DRAM_FAIL (4032) [EMI] Enable DRAM fail Meaning: The firmware you're trying to flash is either not compatible with your device or you have selected the wrong flashing settings Solution: Ensure that the file(s) you're trying to flash are actually for your exact phone model Ensure you tick the boxes of only the files present in the ROM you're about to flash Probably have the wrong driver installed. Uninstall vcom, preloader and MTK drivers using usb deview then manually re-install using Delete the sp flash tool folder then re-extract Ensure the phone is switched off (with battery still inside) before connecting to PC for flashing. If that doesn't work, keep holding down the volume decrease button just before connecting the phone to PC for flashing (you could try volume increase , power + volume decrease or power + volume increase). Consider using the latest version of Sp flash tool Format the phone before trying to flash the file(s) again Error 5056 Message: BROM ERROR : S_DL_PMT_ERR_NO_SPACE (5069) Meaning: The size of a file is larger than the available / possible partition size Solution: Ensure that the file(s) you're trying to flash are actually for your exact phone model Try another stock ROM Change the phone's emmc chip Error 4001 Message: S_FT_DA_NO_RESPONSE or Da didn't send response data to FlashTool! Meaning: SP flash tool is having difficulty communicating with the device Solution: Change the USB-port Run SP flash tool as Admin Ensure to install the correct drivers (see ◆) Try another PC and USB cord Ensure the phone is switched off with a charged battery inside connecting to the PC for flashing Sp flash tool was successful but phone's calibration doesn't work Message: Soft keys and touch screen don't work / respond Solution:Edit the scatter file using Notepad++ and remove NODL_ (or set is_download: true) in front of the items you have in the backup folder but aren't listed when you load the scatter file in SP flash tool. This way, these items will become listed when next you load the scatter file (after saving of course) and therefore flashable Error 4008 Message: BROM ERROR : S_FT_DOWNLOAD_FAIL (4008) Meaning: SP flash tool encountered an error while attempting to flash files Solution: Ensure the battery is in the phone and the phone is switched off before connecting for flashing Try using a higher version of SP flash tool Change the USB cord and port or PC Use the format option then download in SP flash tool Error 3149 Message: BROM ERROR : S_FT_ENABLE_DRAM_FAIL (3149) Meaning: SP Flash tool was unable to flash files to the phone Solution:Ensure to run the latest version of SP flash tool as Administrator First then Download Don't tick a box with an unspecified / empty file path Ensure the phone is switched off (with a well charged battery in it) before connecting to PC for flashing Try a different PC Try a different ROM Try a different USB cord Try formatting the phone first before flashing it in Error 3168 Message: BROM ERROR: S_CHIP_TYPE_NOT_MATCH(3168) Meaning: Sp flash tool believes there's a mismatch between the information provided in the scatter file and the phone's info. Solution:Ensure you're using the ROM for the exact phone model Try a higher version of SP flash tool Ensure to install the correct drivers for the phone on the PC Error 3004 Message: BROM ERROR : S_FT_DOWNLOAD_FAIL (3004) Meaning: There was an interruption in the communication between SP flash tool and the device Solution:A Secure Boot Download Agent (DA) might be required Take out and reinsert the battery Try using a different USB cord, port and PC Right-click flash_tool.exe > Select Properties > Select Compatibility > Set to Windows XP Service Pack 3 > Click Apply > Click OK > Run SP flash tool as Administrator Try a different USB cord Try a different port on the PC or another PC Ensure the battery is well changed and inside the switched off phone before connecting to PC for flashing USB device not recognized Message: USB device not recognized prompt at system tray after connecting the phone to PC Meaning: The PC is having problems communicating with the phone (often due to interruption, hardware or driver problems) Solution: Error 1013 Message: BROM ERROR:S_COM_PORT_OPEN Fail(1013) Meaning: SP flash tool encountered an error while attempting to communicate with the phone via the target port Solution:Try using a different port on the PC Try a different version of SP flash tool Install VCOM drivers using Ensure the phone is switched off with battery inside before connecting to the PC for flashing Try using a different PC Try changing the USB cord Ensure the phone's USB port isn't damaged Error 2020 Message: BROM ERROR : S_BROM_CHKSUM16_MEM_RESULT_DIFF (2020) Meaning: SP flash tool encountered a problem moving the files to be flashed into the phone's internal SRAM Solution:Use the latest version of SP flash tool In SP flash tool, navigate to Options > Option > Connection > Battery. Set it to "with battery". Use the Format all + Download option Hold both volume buttons before connecting to the PC for flashing and release once flashing begins Error 5007 Message : BROM ERROR : S_FTHND_FILE_IS_NOT_LOADED_YET (5007) Meaning: You're trying to flash an item with an unspecified path (no file selected for the ticked item/box) Solution:Ensure the scatter file is in the same directory as the other file(s) to be flashed Untick any item whose file you do not have or whose path is not specified; yet, is ticked / selected for flashing Error 4010 Message : BROM ERROR : S_FT_FORMAT_FAIL Meaning: The blocks map in the scatter file doesn't match the phone's partition sizes Solution: Try using a different SP flash tool Try using another firmware for the exact phone model Error 3182 Message: BROM ERROR: S_STORAGE_NOT_MATCH (3182) Meaning: The ROM you're trying to flash is not compatible with the target device Solution:Download the ROM for the exact phone model you're trying to flash Ensure to install VCOM drivers on the PC Don't tick any box (after loading the scatter file) without a file path / whose corresponding file has not been automatically or manually loaded. Error 6012 Message: BROM ERROR : S_SECURITY_SF_CODE_COMMAND_FORBIDDEN (6012), MSP ERROR CODE: 0X00 Meaning: The Download-Agent being used is incompatible with the phone Solution:Set Download-Agent to MTK_AllInOne_DA.bin Error 1042 Message: BROM ERROR:S_TIMEOUT (1042) Meaning: The flashing process took too long so SP flash tool encountered a timeout Solution: Error 2 Message: BROM ERROR: ?? (2) Meaning: SP Flash tool was unable to communicate with the phone Solution: Try using a different PC (preferably Windows 7 or lower) Install the correct VCOM drivers for your PC's OS and architecture (32 or 64 bit) Try another USB cord Error 2005 Message: BROM ERROR: S_BROM_CMD_STARTCMD_FAIL (2005) Meaning: The device attempted to power on before SP flash tool could flash files to it Solution:Ensure the battery is well charged Take out and reinsert the battery Try using a different USB cord, port and PC Right-click flash_tool.exe > Select Properties > Select Compatibility > Set to Windows XP Service Pack 3 > Click Apply > Click OK > Run SP flash tool as Administrator Try a different USB cord Try a different port on the PC or another PC Ensure the battery is well changed and inside the switched off phone before connecting to PC for flashing Do not hold any button when connecting to PC Error 4058 Message: BROM ERROR: S_FT_GET_MEMORY_FAIL (4058) Meaning: SP flash tool was unable to locate the partition you're trying to flash to Solution: Untick any item (box) with a blank or empty Location Ensure that the memory and other components are properly seated on the board Error 3178 Message: BROM ERROR: S_STORAGE_NOT_MATCH (3178) Meaning: The firmware you are trying to flash isnt compatible with your phone Solution: Try flashing another firmware for your exact phone model / variant Error 8406 Message: SP FLASH TOOL ERROR (8406) Meaning: There is some compatibility problem interrupting the flashing process Solution:Try flashing another firmware for your exact model Update VCOM drivers for the device under Device manager Error 1012 Message: BROM ERROR: S_NOT_ENOUGH_MEMORY (1012) Meaning: The version of SP flash tool you're using doesn't support the size(s) of the file(s) in the firmware / stock ROM. Solution:Use the latest version of SP flash tool Use the format option then download in SP flash tool Error 8417 Message: BROM ERROR: Initialize scatter file failed. Please check the scatter file name you load is legal Meaning: The format of the scatter file is invalid Solution: Open the scatter file in Notepad++, the first line must beginning with:
General Setting # If there is anything else above this then delete it and save the scatter file Error 6047 Message: BROM ERROR: S_SECURITY_SECURE_USB_DL_IMAGE_HASH_FAIL Meaning: Hash (integrity) check of the images being flashed failed. Solution:Use SP Flash Tool V5.1516.00 Ensure to select the right Download-Agent Navigate to Options > Option > Download and and click DL All..... Error 6010 Message: BROM ERROR: SP FLASHTOOL ERROR 6010 CODE S_DL_GET_DRAM_SETTING_FAIL (0x13BE) Meaning: The firmware you're trying to flash is either not compatible with your device or you have selected the wrong flashing settings Solution:Ensure that the file(s) you're trying to flash are actually for your exact phone model Ensure you tick the boxes for only the files present in the ROM you're about to flash Error:?? (0x3) Message: SP flash tool encountered an error maintaining a connection to the device during flashing Solution PRO INFO: Failed to get PMT info Message: PRO INFO: Failed to get PMT info Meaning: SP flash tool is having problems reading the phone SolutionTry using a different PC and USB cord Ensure the phone is switched off (with a charged battery inside) when you connect Error 0x7D4 Message: BROM ERROR: S_BROM_DOWNLOAD_DA_FAIL Meaning: SP Flash tool encountered an error writing to the phone SolutionTry changing the Download Agent (Secure Boot DA) Try using a different USB cord, PC port and PC Use the latest Download Agent in SP flash tool Ensure the battery is well charged For transssion between Options > Option > USB Speed Go to Options > Option > Download > USB Speed > Full Speed Go to Options > Option > Download > Untick DA DL All with Checksum Error 0x8 Message: BROM ERROR: ?? (0x8) Meaning: The size of a file is larger than the available / possible partition size Solution: Ensure that the file(s) you're trying to flash are actually for your exact phone model Try another stock ROM Change the phone's emmc chip Try using a different PC Error 0XFC0 Message: BROM ERROR: S_FT_ENABLE_DRAM_FAIL (0XFC0) Meaning: The firmware you're trying to flash is either not compatible with your device or you have selected the wrong flashing settings Solution: Ensure that the file(s) you're trying to flash are actually for your exact phone model Ensure you tick the boxes for only the files present in the ROM you're about to flash Probably have the wrong driver installed. Uninstall vcom, preloader and MTK drivers using usb deview then manually re-install using Delete the sp flash tool folder then re-extract Ensure the phone is switched off (with battery still inside) before connecting to PC for flashing. If that doesn't work, keep holding down the volume decrease button just before connecting the phone to PC for flashing (you could try volume increase , power + volume decrease or power + volume increase). Consider using the latest version of Sp flash tool Format the phone before trying to flash the file(s) again For transssion between Options > Option > Download > Untick Da DL all with checksum Error 0xFA1 Message: BROM ERROR : S_FT_DA_NO_RESPONSE (0xFA1) Meaning: SP flash tool encountered an error communicating with the phone Solution:Try using a different port, PC and USB cord Ensure the phone is switched off with a charged battery inside Do not hold any button when connecting for flashing Ensure the phone is switched off (with battery still inside) before connecting to PC for flashing Error 0x411 Message: BROM ERROR: S_UNKNOWN_ERROR (0X411) Meaning: There was a checksum error when flashing the firmware SolutionDelete any file with checksum in its name from the firmware folder Go to Options > Option > Download > Untick Da DL all with checksum Error 0xFA1 Message: BROM ERROR : S_FT_DA_NO_RESPONSE (0xFA1) Meaning: SP flash tool encountered an error connecting to the phone SolutionTry using a different port, PC and USB cord Ensure the phone is switched off with a charged battery inside Do not hold any button when connecting for flashing Error 4017 Message: BROM ERROR: S_FT_NAND_READLEN_NOT_ALIGNMENT (4017) Meaning: You're trying to flash a file that has not been processed for flashing in SP flash tool Solution: TOOL DL image Fail ! Message: TOOL DL image Fail ! Meaning: The firmware was flashed with Da DL all with Checksum disabled Solution: In SP flash tool, navigate to Options > Option > Download > Tick Da DL all with checksum > Reflash the firmware Please select one ROM at least before execution Message: Please select one ROM at least before execution Meaning: SP flash tool fails to recognize that there is an item ticked Solution: Select the scatter file again and untick all items you do not wish to flash one after the other. Don't use the checkbox beside "Name" in SP flash tool Error 0xFC0 Message: BROM ERROR : S_FT_ENABLE_DRAM_FAIL (0xFC0) Meaning: The firmware you're trying to flash is either not compatible with your device or you have selected the wrong flashing settings Solution: Ensure the file(s) you're trying to flash are actually for your exact phone model Ensure you tick the boxes for only the files present in the ROM you're about to flash Probably have the wrong driver installed. Uninstall vcom, preloader and MTK drivers using usb deview then manually re-install using Delete the sp flash tool folder then re-extract Ensure the phone is switched off (with battery still inside) before connecting to PC for flashing. If that doesn't work, keep holding down the volume decrease button just before connecting the phone to PC for flashing (you could try volume increase , power + volume decrease or power + volume increase). Consider using the latest version of Sp flash tool Format the phone before trying to flash the file(s) again Error 0xC0050003 Message: BROM ERROR: STATUS_DOWNLOAD_EXCEPTION (0xC0050003) Meaning: There was an interruption during writing to one or more partitions Solution:Repeat flashing with the latest version of SP Flash Tool Try using a different PC, USB cord and PC Try flashing using partition at a time to figure out which partition results to the error Try flashing using a different software e.g miracle thunder, cm2 or any other dongle tool you might have Error: 0xc002002A Message: BROM ERROR: STATUS_SEC_IMG_TYPE_MISMATCH (0xc002002A) Meaning: The firmware you're trying to flash is either not compatible with your device, you have selected the wrong flashing settings or verified boot is enabled Solution: Try unlocking the bootloader before flashing Ensure that the file(s) you're trying to flash are actually for your exact phone model Ensure you tick the boxes for only the files present in the ROM you're about to flash Probably have the wrong driver installed. Uninstall vcom, preloader and MTK drivers using usb deview then manually re-install using Delete the sp flash tool folder then re-extract Ensure the phone is switched off (with battery still inside) before connecting to PC for flashing. If that doesn't work, keep holding down the volume decrease button just before connecting the phone to PC for flashing (you could try volume increase , power + volume decrease or power + volume increase). Consider using the latest version of Sp flash tool Format the phone before trying to flash the file(s) again For transssion between Options > Option > Download > Untick Da DL all with checksum Error 0xFA4 Message: BROM ERROR: S_FT_DOWNLOAD_FAIL (0XFA8) Meaning: SP flash tool encountered an error while attempting to flash files Solution: Ensure the battery is in the phone and the phone is switched off before connecting for flashing Try using the latest version of SP flash tool Change the USB cord and port or PC Use the format option then download in SP flash tool Try changing the Download Agent setting in SP flash tool Error 0x7D5 Message: BROM ERROR: S_BROM_CMD_STARTCMD_FAIL (0x7D5) Meaning: The device attempted to power on before SP flash tool could flash files to it Solution:Ensure the battery is well charged Take out and reinsert the battery Try using a different USB cord, port and PC Right-click flash_tool.exe > Select Properties > Select Compatibility > Set to Windows XP Service Pack 3 > Click Apply > Click OK > Run SP flash tool as Administrator Try a different USB cord Try a different port on the PC or another PC Ensure the battery is well changed and inside the switched off phone before connecting to PC for flashing Do not hold any button when connecting to PC Boundary Check Failed Message: Boundary Check Failed: rom_end_addr >= next rom_begin_addr. Meaning: The firmware has a partition that wasn't included while backing up the firmware. SP flash tool encounters an error in the end address of the preloader partition and the begin address of PGPT partition (i.e the partition which wasn't included in the backup) Solution: Close the error message, then manually select the location of all files in the scatter file from the bottom to the top. Meaning that preloader would be the last thing you'll select If that doesn't work, open and modify the scatter file as thus change "boundary check: True" to "boundary_check: False" If after modifying the scatter file and you still encounter the same or a different error, then flash the firmware using miracle box @ Error 3179 Message: BROM ERROR: S_CHIP_TYPE_NOT_MATCH (3179) Meaning: You're trying to flash is either not compatible with your device or you have selected the wrong flashing settings Solution: Ensure that the file(s) you're trying to flash are actually for your exact phone model Ensure you tick the boxes for only the files present in the ROM you're about to flash Probably have the wrong driver installed. Uninstall vcom, preloader and MTK drivers using usb deview then manually re-install using Ensure to use the latest version of SP Flash Tool Format the phone before trying to flash the file(s) again Error 5073 Message: BROM ERROR : S_DL_READ_PT_FAIL (5073) Meaning: SP flash tool encountered an error adding the file you're trying to format the device Solution: Use "download only" under the download tab to flash the files you can format if need be. SP Flash Tool force-closes when scatter file is loaded Message: SP Flash tool automatically closes after selecting a scatter file Meaning: SP Flash Tool doesn't support the scatter file due to its blocks or configuration Solution:Open the scatter file using Notepad++ > Locate the last partition on the list (flashinfo) > change is_download from true to false > Save the scatter file and reload Storage type mismatch! Message: scatter storage type is HW_STORAGE_EMMC target storage type is HW_STORAGE_NAND Meaning: There's a mismatch between the phone's storage type and that which the scatter file expects Solution: Error 8045 Message: No Valid Partition Management Table (PMT) for storage Meaning: SP Flash tool encountered a problem identifying the device's partitions while it writes Solution:Try Flashing the firmware using Download only Error 1041 Message: BROM ERROR: S_CHKSUM_ERROR (1041) Meaning: There was a checksum error when flashing the firmware SolutionDelete any file with checksum in its name from the firmware folder Go to Options > Option > Download > Untick Da DL all with checksum 0x00 Message: BROM ERROR: S_SECURITY_AC_REGION_NOT_FOUND_IN_SECROIMG (6128), MSP ERROR CODE: 0X00 Meaning: The ROM contains a Checksum file but DL All With CheckSum was unticked Solution:Ensure to tick DL All With CheckSum under Options > Option > Download BROM ERROR : S_SECURITY_SECRO_HASH_INCORRECT (6126) , MSP ERROR CODE : 0x00 Meaning : S_SECURITY_SECRO_HASH_INCORRECT (6126) , MSP ERROR CODE : 0x00 Meaning : The ROM contains a Checksum file but DL All With CheckSum was unticked Solution:Ensure to tick DL All With CheckSum under Options > Option > Download Error 0xC0050005 Message: ERROR STATUS_EXT_RAM_EXCEPTION (0xC0050005) Meaning: The firmware you're trying to flash is either not compatible with your device or you have selected the wrong flashing settings Solution:Ensure that the file(s) you're trying to flash are actually for your exact phone model Ensure you tick the boxes for only the files present in the ROM you're about to flash Ensure that the battery of your device is well charged Try the technique used @ Error (3) Message: BROM ERROR: ?? (3) Meaning: SP flash tool is having difficulty with the format of the scatter file being flashed. An example is trying to flash .bin files using SP flash tool Solution:Check the scatter file and files you're about flashing to be sure they're not meant to be flashed using a different tool Error 6104 Message : BROM ERROR : S_SECURITY_SECURE_USB_DL_DA_RETURN_INVALID TYPE (6104), MSP ERROR CODE : 0X00 Meaning: Wrong flash settings or firmware Solution: Ensure you set the correct Download-Agent in SP flash tool and are using a firmware for your exact model Go to Options > Option > Connection > USB Speed > Full Speed Go to Options > Option > Download > Untick DA DL All with Checksum Error 3183 Message: BROM ERROR: S_CHIP_TYPE_NOT_MATCH (3183) Meaning: Sp flash tool believes there's a mismatch between the information provided in the scatter file and the phone's info. Solution:Ensure you're using the ROM for the exact phone model Try a higher version of SP flash tool Ensure to install the correct drivers for the phone on the PC Error 0xC0060001 Message: BROM ERROR: S_BROM_CMD_STARTCMD_FAIL (0xC0060001) Meaning: The device attempted to power on before SP flash tool could flash files to it Solution:The device might require a custom Download Agent (DA) to be flashed Ensure the battery is well charged Take out and reinsert the battery Try using a different USB cord, port and PC Right-click flash_tool.exe > Select Properties > Select Compatibility > Set to Windows XP Service Pack 3 > Click Apply > Click OK > Run SP flash tool as Administrator Try a different USB cord Try a different port on the PC or another PC Ensure the battery is well changed and inside the switched off phone before connecting to PC for flashing Do not hold any button when connecting to PC Error 6004 Message: BROM ERROR: PMT changed for the ROM; it must be downloaded Meaning: The partition table about to be written (from the scatter file) is different from the phone's current partition table layout Solution: that the scatter file / files you're trying to flash are actually for your exact phone model If you're trying to flash just a few files and not the firmware then you need to get the firmware to complement and then flash using download only If you're trying to flash the full firmware then try using the Firmware Upgrade option or Format first before download only Error 6045 Message : BROM ERROR : S_SECURITY_SLA_FAIL (6004), MSP ERROR CODE: 0X00 Meaning: The download agent isn't compatible with the Download Agent you're using or Ensure you're using the right Authentication file Storage type mismatch! Message: scatter storage type is HW_STORAGE_NONE Meaning: There's a mismatch between the phone's storage type and that which the scatter file expects Solution:Try using SP Flash tool Version 3.x Error 6045 Message : BROM ERROR : S_SECURITY_SECURE_USB_DL_IMAGE_SIGN_HEADER_NOT_FOUND (6045) , MSP ERROR CODE : 0X00 Meaning: The image files you are trying to flash don't contain the -sign header. Solution:Use SP flash Tool V5.1532.00 @ Load the Auth file for the device in the flash tool Ty flashing a factory (signed) firmware Flash the unsigned image using the 'Write Memory' tab in SP flash tool. To activate write memory tab, press 'Ctrl + Alt + V' to enabled advanced mode then click Window > Write Memory Error 2035 Message: BROM ERROR: S_BROM_CMD_JUMP_DA_FAIL (2035) Meaning: SP flash tool encountered an error connecting to the device. SolutionEnsure the battery is inserted and you're not holding any button when connecting to PC for flashing Uninstall all Mediatek drivers then re-install VCOM drivers Disable any modem manager or software which might be blocking ports on the PC For Linux / Ubuntu users, make sure you installed libusb-dev then blacklist Ubuntu's modem manager (because it controls port /dev/ttyACM0, which is disabling SP Flash Tool from running properly). Error 0x412 Message: BROM ERROR : S_TIMEOUT (0X412) Meaning: SP flash tool encountered a timeout when trying to flash (i.e flashing took too long to start or complete) SolutionEnsure that files are actually loaded (with valid location) in SP flash tool (i.e location should not be empty) Try flashing one file at a time Use a higher version of SP flash tool Use the format option to flash the large files or find smaller alternatives Error 6029 Message: BROM ERROR: S_SECURITY_SEND_AUTH_FAIL (6029) , MSP ERROR CODE: 0x00 Meaning You flash tool can't authenticate the files you are trying to flash SolutionTry another ROM / firmware from a different source Get an Auth file for your phone model For Tecno, Infinix & Itel devices, use Software Download tool (Format + Download) Error 0x93AF Message: ROM[logo] checksum mismatch

checksum_config[0x93af],checksum_val[0x94ae] Meaning SP Flash tool encountered a checksum error SolutionOpen the checksum file using notepad++, search for 0x93af and replace with 0x94ae Delete any checksum file in the rom Error 5011 Message: S_DL_SCAT_INCORRECT_FORMAT (5011) Meaning The scatter file has incorrect format. The scatter file has been badly created / modified SolutionDownload a different scatter file (one that doesn't pop the same incorrect scatter file error in SPft), open the two scatter files using Notepad++ and you will notice that the incorrect scatter file has its items slightly shifted to the left. Edit the incorrect scatter file to the same format arrangement as in the working scatter file. After modifying the scatter file using the method above, ensure to use a recent version of SP flash tool e.g SP flash tool v5.1728 Download another ROM / firmware from a different source Error 0xC52 Message: S_DA_SDMMC_WRITE_FAILED (0XC52) Meaning: SP Flash tool was unable to flash files to the phone Solution:Ensure to run the latest version of SP flash tool as Administrator Format first then Download Don't tick a box with an unspecified / empty file path Ensure the phone is switched off (with a well charged battery in it) before connecting to PC for flashing Try a different PC Try a different ROM Try a different USB cord Try formatting the phone first before flashing files to it Error 0XFAA Message: BROM ERROR: S_FT_FORMAT_FAIL (0XFAA) Meaning: The source (firmware) doesn't properly match the target (phone) Solution:Try using a different firmware for your phone model Ensure you're using the right tool to flash the firmware Error 5072 Message: ERROR: S_DL_WRITE_PT_FAIL (5072) Meaning: SP flash tool is having problems writing to one or more partitions SolutionTry using a different PC and USB cord Ensure the phone is switched off (with a charged battery inside) when you connect Do not hold any button when connecting to PC for flashing Error 0XC0070004 Message: ERROR: STATUS_DA_HASH_MISMATCH (0XC0070004) Meaning: Hash (integrity) check of the images being flashed failed. Solution:Use SP Flash Tool V5.1516.00 Ensure to select the right Download-Agent Navigate to Options > Option > Download and untick DA DLL All..... Try a different firmware build Error 6046 Message: BROM ERROR: S_SECURITY_USB_DL_IMAGE_SIGNATURE_VERIFY_FAIL (6064), MSP ERROR CODE: 0X0 Meaning: Signature verification for the firmware failed Solution:Set Download-Agent to MTK_AllInOne_DA.bin Navigate to Options > Option > Download and untick DA DLL All..... Delete any checksum file in the firmware folder Error 0XC0060003 Message: ERROR: STATUS_BROM_CMD_SEND_DA_FAIL (0XC0060003) Meaning: SP flash tool is unable to read or write to the device using the preset Download Agent Solution:The device might require a custom Download Agent (DA) to be flashed Ensure the battery is well charged Take out and reinsert the battery Try using a different USB cord, port and PC Right-click flash_tool.exe > Select Properties > Select Compatibility > Set to Windows XP Service Pack 3 > Click Apply > Click OK > Run SP flash tool as Administrator Try a different USB cord Try a different port on the PC Ensure the battery is well charged and inside the switched off phone before connecting to PC for flashing Do not hold any button when connecting to PC Error 0x94010000 Message: CHIP TYPE NOT match ! target refuse value: 0x94010000 Meaning: The device likely has a locked / encrypted preloader Solution:Untick preloader when flashing in Sp flash tool Error 0xC0020029 Message: BROM ERROR: STATUS_SEC_IMGHDR_TYPE_MISMATCH (0xC0020029) Meaning: You are trying to flash modified files to a device that only accepts signed or verified images Solution:Download and flash the official firmware (usually have -verified or -signed prefixes) If possible, unlock the bootloader then retry flashing Download the latest version of SP flash tool Error 5000 Message: BROM ERROR : S_AUTH_HANDLE_IS_NOT_READY (5000) Meaning: The device has a secure boot / bootloader Solution:You'll need an Auth (*.auth) or custom Download Agent (DA) file for the device to proceed with SP flash tool For Tecno, Infinix & Itel devices, use Software Download tool (Format + Download) Error 0xC002002C Message: ERROR : STATUS_SEC_IMG_HASH_VFY_FAIL (0xC002002C) Meaning: The device has a verified boot Solution:You'll need to download and flash the official firmware (usually have -verified or -sign in their file name) Error 0xC0030012 Message: ERROR: STATUS_SEC_AUTH_FILE_NEEDED (0xC0030012) Meaning: The device has a secure boot Solution: You'll need to use a custom authentication file (auth) for the model Error 0xC0060005 Message: ERROR: STATUS_BROM_CMD_FAIL (0xC0060005) Meaning: The device attempted to power on before SP flash could flash files to it Solution: You'll need to use a custom Download Agent (DA) for the model Error 8 Message: ERROR: ?? (8) Meaning: The size of a file is larger than the available / possible partition size Solution: Ensure that the file(s) you're trying to flash are actually for your exact phone model Try another stock ROM Change the phone's emmc chip Try using a different PC Error 5002 Message: ERROR: S_INVALID_DA_FILE (5002) Meaning: SP flash tool does not recognize the DA file. Most likely the DA file is locked / encrypted for use on a specific tool Solution: You'll either need to search for a DA file compatible with SP flash tool or use the specified tool for the DA file you downloaded [specified tool are usually hardware box / dongles e.g CM2mtk, volcano tool, e.t.c] Error 0xC0030001 Message: Error: STATUS_SCATTER_FILE_INVALID (0xC0030001) Meaning: SP flash tool does not recognize the scatter file or the location of the scatter file. Solution. Rename the folder location of the scatter file including the parent folders too, remove all special characters / non English characters from the folder name If that doesn't work then create a new folder in your desktop then copy and paste ONLY the firmware files into the new folder then retry flashing the contents on the new folder Partition[nvram] should NOT set "is_download" to true in scatter file Message: Partition[nvram] should NOT set "is_download" to true in scatter file Meaning: The scatter file loaded has nvram set to download but doesn't specify a file name for nvram. This error is common in later versions of SP flash tool Solution: Modify the scatter file using notepad++ and add a file name for nvram partition. e.g "file_name: nvram.bin" then save and ensure there's an nvram.bin file in the same folder as the scatter file. If that doesn't work then Modify the scatter file using notepad++ and set "is_download: false" for nvram partition Error 0xC0050001 Message: ERROR: STATUS_DEVICE_CTRL_EXCEPTION (0XC0050001) Meaning: The firmware you're trying to flash is either not compatible with your device or you have selected the wrong flashing settings Solution:Ensure that the file(s) you're trying to flash are actually for your exact phone model Try another stock ROM Change the phone's emmc chip Error 0xC002001B Message: ERROR: STATUS_SEC_PUBK_AUTH_MISMATCH_N (0xC002001B) Meaning: The device has a verified boot Solution:You'll need to download and flash the official firmware (usually have -verified or -sign in their file name) Error 5014 Message: ERROR: S_DL_SCAT_ADDR_IS_NOT_ASCENDING_ORDER (5014) Meaning: The scatter file was badly created or modified, depending on how you obtained the scatter file Solution: Input the correct values for all 'physical_start_addr' in the scatter file. The correct value for 'physical_start_addr' is the same as the value on 'linear_start_addr' Error 0x7F3 Message: BROM ERROR: S_BROM_CMD_JUMP_DA_FAIL Meaning: SP Flash tool encountered an error connecting to the device. SolutionEnsure the battery is inserted and you're not holding any button when connecting to PC for flashing Uninstall all Mediatek drivers then re-install VCOM drivers Disable any modem manager or software which might be blocking ports on the PC For Linux / Ubuntu users, make sure you installed libusb-dev then blacklist Ubuntu's modem manager (because it controls port /dev/ttyACM0, which is disabling SP Flash Tool from running properly). Error 3154 Message: BROM ERROR : S_DA_SDMMC_WRITE_FAILED (3154) Meaning: SP Flash tool was unable to flash files to the phone Solution:Ensure to run the latest version of SP flash tool as Administrator Format first then Download Don't tick a box with an unspecified / empty file path Ensure the phone is switched off (with a well charged battery in it) before connecting to PC for flashing Try a different PC Try a different ROM Try a different USB cord Try formatting the phone first before flashing files to it Error 0xC0010005 Message: BROM ERROR: STATUS_PROTOCOL_ERR (0xC0010005) Meaning: Sp flash tool is having problems communicating with the device Solution: Ensure the phone is properly switched off (with battery connected) before connecting to PC for flashing. Error 0xC0010007 Message: BROM ERROR: INSUFFICIENT_BUFFER (0xC0010007) Meaning: SP flash tool seems to be blocked from flashing files to the phone Solution: If you can boot to fastboot mode, then unlock the bootloader then retry flashing Untick OEM then retry flashing Error 0xC0050007 Message: ERROR: STATUS_READ_DATA_EXCEPTION (0xC0050007) Meaning: SP flash tool is unable to readback from the connected phone (esp where the readback length is too large) Solution: Error 0x13CD Message: BROM ERROR : S_DL_PMT_ERR_NO_SPACE (5069) Meaning: The size of a file is either not compatible / possible partition size Solution: Ensure that the file(s) you're trying to flash are actually for your exact phone model Try another stock ROM Change the phone's emmc chip Try using a different PC Error -1073283068 Message: BROM ERROR: STATUS_DA_HASH_MISMATCH (-1073283068), MSP ERROE CODE: 0X00 Meaning: The DA file being used isn't compatible Solution: Try using a DA + Auth + Factory rom Error 0XC50 Message: S_DA_SDMMC_CONFIG_FAILED (0XC50) Meaning: The device likely has a protected preloader or bootloader Solution: Untick preloader when flashing in Sp flash tool Error 3152 Message: S_DA_SDMMC_CONFIG_FAILED (3152) Meaning: The device likely has a protected preloader or bootloader Solution: Untick preloader when flashing in Sp flash tool Error 0xC0020006 Message: ERROR: STATUS_SEC_PL_VFY_FAIL (0xC0020006) Meaning: The device likely has a protected preloader or bootloader / requires on loaded for all operations Solution: Ensure a preloader for your device's model is loaded before any operation Ensure to use the Secure Boot DA (and Auth if requested) for the device One or more partitions might be preventing flash. Try flashing one partition at a time Try unlocking the bootloader before flashing Error 0xC0030003 Message: ERROR : STATUS_DA_SELECTION_ERR (0xC0030003) Meaning: The DA file being used is incompatible Solution: For Tecno, Infinix and Itel, try using Software Download tool @ instead Error 0xC0030008 Message: ERROR: STATUS_INVALID_GPT (0xC0030008) Meaning: Faulty Emmc chip on the device Solution: Try writing firmware directly to emmc using an emmc tool such as UFI box Change the phone's emmc chip Error 0xC0050004 Message: ERROR: STATUS_UPLOAD_EXCEPTION (0xC0050004) Meaning: SP Flash tool is unable to connect with the phone Solution: Try a different USB cord Try flashing with / without battery inserted Error 0x1 Message: ERROR: ?? (0x1) Meaning: SP Flash tool is unable to properly communicate with the phone Solution: Try using a custom DA & Auth file for your device model Error 0xC0030004 Message: ERROR: STATUS_PRELOADER_INVALID 0xC0030004 Meaning: There's a problem with the preloader partition name in the scatter file or communication with the device Solution: Try loading the preloader from the firmware for your model before attempting to perform any operation Edit the scatter file preferably using Notepad++ or any other good text editor, then change partition name to all lower case e.g PRELOADER to preloader or to match the exact file name in the firmware then save. e.g PRELOADER to preloader or to match the exact file name in the firmware then save, if successful then disconnect the jumper and flash the rest of the firmware Error or Down button before connecting the phone to the PC If you get the error while trying to format, return to the download tab and tick the checkbox for preloader then return to the format tab and retry formatting If you get the error while trying to readback, then press control + alt + v to enable advanced mode in SP flash tool, then on the readback tab, tick the checkbox for SRAM then retry the readback operation If readback still fails using the method above then ensure that there's a valid preloader file location within the download tab then return back to the readback tab and proceed with readback Error 1003 Message: ERROR: S_INVALID_BBCHIP_TYPE (1003) Meaning: There's a problem with the scatter file Solution: Ensure you're using an SP Flash tool-compatible scatter file Error 0xC0010004 Message: STATUS_UNSUPPORT_CTRL_CODE (0xC0010004) Meaning: The version of SP Flash tool you're using doesn't support your chipset / device or Storage Life Cycle Check is failing Solution: Ensure you're using the latest version of SP Flash tool then navigate to Options > Option.. > Untick Storage Life Cycle Check Error 0xC0020005 Message: STATUS_SEC_IMG_TOO_LARGE (0xC0020005) Meaning: The particular file as indicated on SP flash tool is either too large in size compared to the partition on the phone or the file isn't verified or signed Solution: Look for and try a different firmware or search online if you'll find a replacement file (one with smaller file size) for the said partition Error 0xC0070005 Message: STATUS_DA_EXCEED_MAX_NUM (0xC0070005) Meaning: The SP flash tool is having trouble communicating with the phone or you're flashing a wrong firmware Solution: If you where holding vol button before connecting, then retry flashing without holding any buttons (vice versa) Try flashing a different firmware or at least preloader from a different firmware Try making a jumper connection between kcolo and gnd (something similar to) then flash only preloader, if successful then disconnect the jumper and flash the rest of the firmware Error 0xC004000B Message: ERROR: STATUS_EXCEED_AVAILABLE_RANGE (0xC004000B) Meaning: You might be trying to flash or backup too many / too large partitions at a time Solution: Try flashing or backing up one file / partition at a time Ensure you've supplied the correct partition addresses (either in scatter file or manually during readback/flash) Error 0xC0010001 Message: ERROR: STATUS_ERR (0xC0010001) Meaning DA or Auth verification failed Solution: Ensure to load a custom DA or Auth for the device or bypass DA / Auth check Error 0xC0020004 Message: ERROR: STATUS_SEC_DL_FORBIDDEN (0xC0020004) Meaning You aren't allowed to flash to the partition in question SolutionYour model might require a compatible preloader.bin always loaded for backup / flash operations Ensure the file you're trying to flash is factory signed / official Try both Write memory and Download tabs in SP flash tool Error 0xC002004B Message: ERROR: STATUS_SEC_INSUFFICIENT_BUFFER (0xC002004B) Meaning The partition in question requires a -verified image SolutionEnsure you're using the latest version of SP flash tool Skip this partition when flashing (if it isn't a core partition) Try doing format all + download then flashing to the partition using download only (Warning: Only format a secure boot device when you either have the auth or are using the auth bypass (SLA/DAA) tweak Use the -verified image of that partition if the firmware contains it Use this bypass method Error 0xC002002D Message: ERROR: STATUS_SEC_VIOLATE_ANTI_ROLLBACK (0*C002002D) Meaning The older firmware (downgrade) you're trying to flash is rejected by anti-rollback Solution Ensure to download a firmware equal to or higher than your current build

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