



## **FlashTool E2 Release Note**

### **Version x.x.3.35**

SMS00903003: "[DRV/FlashTool\_E2]When setting "Auto Start(DSR/USB detection)", we cannot download SW via UART" (Remove the not working auto start when a COM port is selected).

SMS00903004: "[DRV/FlashTool\_E2]SPK file name erase after the settings menu was displayed." (added a check if the settings really are changed before removing the SPK file name).

This release should also fix the issues with the progress bar in Binary Mode, but this is not verified.

### **Version x.x.3.33**

SMS00893203: SMS00879804 needs a zip file to be injected in all downloadable files (fixed instability when the injected ".ini" files are loaded).

### **Version x.x.3.32**

SMS00879804: Disable option for setting test mode in FlashTool (EEPROM)

SMS00879966: XMM6180 Modem Express Card Software Reset for triggering flash procedure

### **Version x.x.3.29**

SMS00847521: "Need to remove Lint warnings...". We cannot currently run Lint on the GUI source code, but it is compiler warning free.

As requested:

- 1) It no longer requires 7-zip installed to zip and unzip files (built-in zip used).
- 2) When downloading to one channel only, the progress is show in the taskbar, and taskbar flashes when download is done to indicate that user interaction is required (if program is not active or minimized).
- 3) The download window will minimize the whole application and not just the download form.

### **Version x.x.3.24**

Fixed: SMS00846054: [Download Tool Chain] Support for injected zip files. See help file for details on how to inject files an use this feature.

## **Version x.x.3.23**

By customer request: Added help text on errors in the download window that gives more details on what the error is and what to do about it.

## **Version x.x.3.22**

Fixes the following UTP's:

SMS00764778: "Secure mode target unfinished download - show appropriate warning"

SMS00764792: "OMSI auto detect of download file expected by secure mode target"

SMS00804534: "UNC naming not supported in 4.30.3.21"

SMS00775159: "Complete progress indication during download needed"

SMS00707604: "Analysis and design of MSI module for Pathfinder"

## **Version x.x.3.21**

Complete progress indication during download needed. Error when used with large channel numbers is fixed.

## **Version x.x.3.20**

Complete progress indication during download needed. There are now two progress bars: a large one for total progress and a smaller one for partial progress.

## **Version x.x.3.19**

Added an easy Trace start/stop button that also makes it easy to send or view traces.

Added TraceViewer.exe to the install package, so customers can view traces without having to send them to use first (still beta).

Updated help file and made sure that context sensitive help is shown in the program.

Removed the not working NAND erase tab (SMS00767906).

## **Version x.x.3.18**

Added a setup setting to force marking of a memory class in the download list. This can be used to ensure that no one is able to unmark important files that need to be downloaded always (if present).

## **Version x.x.3.17**

Added extra baud rates (see help file for documentation on the command line to enable these options).

Update Help File with how to trace and the new extended command line.

Remove automatic selection of added file elements that are repeated, e.g. if there are two cust packs, then none of them are selected, so the user is made aware that only one of them should be selected. This does not apply to FLS and EEP files, since they are allowed.

Fixed problem with “index out of bound” when deleting items in the download list.

Added filter for downloading files with extension “.all”.

Fixed multiple highlights on text fields at one time (to avoid confusion of what has focus).

## **Version x.x.3.15**

Update Help File with installation issues and new features.

Support for extra erase modes added (a drop down list is added instead of some of the checkboxes)

Added better support for USB downloads when using auto start (requires the corresponding DLL to work), that should make it much more reliable.

Added parameters two extra parameters (IFWD\_DL\_dll\_parameter\_skip\_wr\_prak\_crc, IFWD\_DL\_dll\_parameter\_check\_sign\_hw\_cfg\_value) to settings.

Added warning button in case NAND partitions are specified as preserved during download (since this feature would otherwise be hidden and could get surprises if users forgot it was setup to preserve partitions)

Added a Trace button to setup/download that (if enabled in settings) will give the user an easy way of starting/stopping trace.

Added balloon hints on setup window to help the understanding of how to add files to the download.

## **Version x.x.3.14**

Added much more user friendly way of specifying NAND partitions.

Added an easy way to upload data before proceeding with the downloads (this requires customer specific changes to the source code: 1) Add the define ALLOW\_VERIFY to the project. 2) Correct the dummy function "CustomVerify()" in the bottom of "download.cpp" to suit your needs. 3) Change the defines "VERIFY\_BEFORE\_DL\_START" and "VERIFY\_BEFORE\_DL\_LENGTH" to suit your needs in Info.h.

## **Version x.x.3.13**

Fixed problem with NAND binary mode download where nothing was downloaded. The next version will include a much more user friendly way of selecting partitions.

## **Version x.x.3.12**

Improved Binary Mode partition inclusion/exclusion MMI.

Fixed minor bug on the binary mode panel when a “skin” was applied.

Help file updated.

## **Version x.x.3.11**

- Added a setting (‘File’->‘Settings’->‘Auto start’->‘Restart Hold-off’) added to provide variable hold-off time from download is finished to a new phone connection will be detected during USB Auto boot.

## **Version x.x.3.10**

- Further fixes for USB auto start.

## **Version x.x.3.9**

- Further fixes for USB auto start.
- Show the Prolific USB-COM port driver version in the About box.
- Check the USB driver version and give warning if its too old.

## **Version x.x.3.8**

- Made USB auto start much more reliable.
- Added flashing warning: “Erases Calibration”, when “Erase Whole Flash” is checked to warn user, and made sure that erase is default off (but last settings will naturally be remembered).
- File Sort order in list is now more like the order it is downloaded in.
- Added “Remove All” button to quickly empty the download list

## **Version x.x.3.7**

- Minor cosmetic changes.

## **Version x.x.3.6**

- Removed red EEPROM text warning about erasing calibration data.
- Fixed minor problem: It will not complain about invalid NOR settings in binary mode, when NAND is selected.

## **Version x.x.3.5**

- Ported to new version numbering system (MMI uses the last two digits, the DLL uses the first two). This gives one 4 digit version number that both describes the DLL and MMI.
- Added NAND/NOR option in binary mode to make sure that only the features supported are shown.
- Added NAND option to erase not only the whole logical FLASH, but also blocks marked as bad (low level format of FLASH). This should not normally be used.
- Added “Copy” button to copy version number in about box.
- Removed annoying text highlights of all text fields on startup.
- Updated Help file.

## **Version 3.3**

- Added possibility to select and add multiple files at once in the “Browse” for files dialog.
- Fixed bug where the binary mode project was always set as “external file” regardless of what was selected.
- Updated help file

## **Version 3.01**

- The setup screen is completely re-done to support ‘Multi TOC’ files.
- Otherwise the functions are equal to release 2.16

## **Version 2.16**

- The option to erase the whole flash before download is now also valid when downloading FLS files to NOR system. So the text “NAND only” is removed.

## **Version 2.15**

- Fixed error preventing the selection of option “Conditional erase of dynamic eeprom”.

## **Version 2.14**

- Added better Prolific driver version number warnings (Windows XP and Windows 2000 have different recommended versions).
- Opening/closing of COM ports will now display information given from the Download.dll.
- Removed duplicated COM ports in the drop down list of detected COM ports.
- Prepared the MMI for handling Protocol checksum change, but it is not fully supported yet.

## Version 2.13

- Fixed path problem when browsing for files in the NAND section of the setup form.
- Added option to skip COM port descriptions, since this caused delays on PC's with many COM ports.

## Version 2.12

- Added new project headers (used in binary mode)
- Output Control in settings now includes a "OnCOMPortopen" event to control outputs right after the COM port is opened. This enables the DSR auto start detection to work better on phones that require e.g. DTR to go high to power it on.
- Settings now include an "auto log" function to log all text from download logs into separate files for each channel with timestamps. If less detailed log text is wanted then turn off "Detailed Log" if not already.
- Added support for both EEPROM download and update in one download sequence (at not just one of them)
- Added option to do EEPROM update after Add-Ons are downloaded (if any).
- Added Read-only mode to options, that will only allow user to see what is downloaded, but is unable to change it (until the option is turned off). This is useful in the production.
- Bug Fix: FlashTool\_E2 no longer *always* resets when using COM ports (it now respects the user settings).
- Bug Fix: The MMI now supports the "Force Pre-erase of written areas" option.
- Removed invalid hints in settings when hovering over controls.

## Version 2.11

Option "Force pre-erase of written area" was disabled by mistake. It's enabled again.

## Version 2.10

- When downloading via USB with auto-start, the log is no longer clear automatically if an error occurred less then 300ms before disconnect. This prevents errors from being cleared in case of low-battery.
- The file used to boot with is now chosen in the same order as the files are listed in the setup window, so there is no longer any doubt which files EBL is injected.

## Version 2.7

- The download log and progress bar is cleared when the USB cable is disconnected when using auto start.
- The COM port used is now stored even if USB is used (it previously stored COM1).
- Multi screen users: the about box position is changed to main screen center.

## Version 2.6

- Added file checksum in download window for all files (in bottom status window).
- Added Prolific driver version check at startup to warn people using an driver version different for the recommended one.
- Made maximum allowed download panel size bigger to allow more text to fit in each channel panel (if possible given the number of channels used).
- Updated help file to describe the problem with some Prolific driver versions for the PL-2303X chip.

## Version 2.5

- Added file checksum in file hints (hover mouse over a file to see).
- Added option to get more detailed information from target in case of errors.
- Added option to verify FLASH erase.
- Fixed problem with the “...” browse buttons where they displayed the last filename selected (e.g. a fls filename could be displayed in the EEP field if the FLS file was browsed for last).
- Updated help file.

Note: the DLL interface has been expanded with one function so the GUI can get the checksum. This means that the .exe can't be used with older DLL's (since they don't have that function).

## Version 2.4

- Added panels for downloading NAND boot system and DSP files.
- Updated help file.

## Version 2.2

- Added two settings: "pre-erase FLASH before writing", and "Check file size" (will prevent potential phone locks ups if e.g. a 64MB fls file is attempted to be downloaded into a 32MB phone).
- Added help short cuts for each tab in settings (on the F1 key).
- Fixed screen flickering problems, specially on Windows XP.
- Rearranged settings tabs
- Updated help file

## Version 2.1

- Added "Tools" panel with "whole chip erase" option.
- Added word wrap in download window details, so filenames are not truncated in screenshots
- Added OS version in Error Report information, and cleaned the text up so not unsupported characters appear when pasted into a text editor.

- Fixed minor problem with double titles when running on XP when enabling and disabling binary mode

## **Version 2.0**

Added support for NAND disk files (.dfat files).  
Ported application to the BDS 2006 compiler (from BCB 6.0).  
Added .NET look and feel on XP machines.  
Added Pink skin  
Moved version display from form caption to bottom.

## **Version 1.12**

Fixed “Default” button in settings, so it changes the values correctly.

## **Version 1.11**

Changed default values for transmission timeout from 6s to 12s, and made RTS 1 by default (these changes will not appear unless the .ini file is erased). Made is impossible to press the “Start” button after download has completed and while target is being reset (this could result in unwanted behavior).  
Added version information to title bar of the main windows.

## **Version 1.10**

Fixed problem with file date when uploading files (Borland showed a confusing pop up when trying to get the file date of a none existing file).

## **Version 1.9**

It is now possible to select Static and dynamic parts of the File System Files separately.

## **Version 1.8**

Added version information in download window title.  
Made previous status bar color (red/green) remain from previous downloads when using auto click start without time out (will be erased on next boot sincronication).

## **Version 1.7**

Removed unused button “Make Error Report” (functionality is available on right-click in log window).

## **Version 1.6**

Added hint on most filename fields that show file date and size. Added file date of downloaded files in the download window overview. The newest file on disk will always be used, regardless of what is written in the overview (it is possible to update the file in between downloads while the program is still running). Changed version numbers to only two digits.



## Version 1.5.6

- 1) Extra project added in binary mode, so there is support for S-Gold2 512 and 1024 Mbit.
- 2) Avoided calling "IFWD\_DL\_set\_get\_control\_signal()" when using USB ports.
- 3) Fixed minor bug in COM ports drop down when using arrow keys.

*Known problems:* There are rare occasions where the COM port "hangs", i.e. the program must be closed before the port can be used again. This will be investigated.

## Version 1.5.5

Fixed "Index Out of Bounds" error that could occur after having used the USB Wizard and downloaded to multiple channels.

Added a standalone command line tool: `IFX_DL.exe`, that is intended for batch file downloads. See `FlashTool_E2.chm` help file for details (Command Line chapter).

Added an debug feature to better test COM port issues in settings (for internal use).

## Version 1.5.4

Fixed problem with logs being erased doing multi channel download with Auto Start with no time out. Added check that one does not try to used the Auto Start intended for COM ports while using USB ports.

## Version 1.5.3

Added an auto start mode for COM ports that does not require any external hardware to any key presses in the program to get a phone to boot and download. An "Auto Start" tab has been added in settings to control this.

## Version 1.5.1

- 1) Fixed problem with opening USB ports again after a completed download.
- 2) Added boot and communication timeout to program settings to allow users to increase timeout in case of problems (should not occur, but now it can be circumvented without having to wait for a new release).
- 3) Better target reset handling added (waits until it gets a callback before closing the com port).

## Version 1.5.0

Added a USB Map wizard that takes care of mapping physical USB ports to channel numbers in the same way each time during an automatic multi channel USB Infineon download.

Made normal (as apposed to auto boot) USB Infineon downloads work multiple times without needing to close the download window in between downloads.

Added an auto boot detection during USB Infineon download that uses the USB mapping defined in the USB Wizard.

Added options to control how download is done:

- 1) Skip Empty Blocks (faster download)
- 2) Faster CRC Method (faster download)
- 3) Multi Channel Low CPU Usage (less CPU usage on multi channel download)

Leave all options checked unless you are experiencing download problems.

## **Version 1.4.3**

The COM port drop down list now provides details about the COM ports, so that it should no longer be a need to go to Device Manager to see which COM port is what.

## **Version 1.4.0**

- Added new concept for changing communication driver – it is now a drop down list in the communication setup panel.
- Removed many nagging prompts like. “Are you sure?” on exit, since no data will be lost if user accidentally exits the program (and the program will quickly launch again).
- Changed default behavior in case the .INI is missing (it will now show communication settings on startup as default, since this is the first thing one wants to check on startup).
- Moved the “Settings” menu item to the “File” menu.

## **Version 1.3.14**

Added .flb support to FLS download. Added better USB handling: It is now decided in settings how USB is handled (Edit > Settings > USB Handling). Currently there are two options: “Infineon driver” and a list of customer specific drivers. Please select “Infineon driver” unless otherwise specified. The USB setting will only have an effect if “Native USB Port” is checked.

## **Version 1.3.13**

Removed valid com port caching, so newly available ports are detected without needing to restart the program.

## **Version 1.3.12**

Fixed program freeze on auto boot mode that could occur if polling port status took too long.

## **Version 1.3.11**

Support for automatic download start is added.

## **Version 1.3.10**

Errors in the handling of static EEPROM update are fixed.

## **Version 1.3.9**

Support for static EEPROM update is added.

## **Version 1.3.8**

Fixed bug where the Comport would sometimes be cleared on program start -Added the option to return to setup windows when the download window was closed (old Flash tool behaviour).

Added AT-mode test interface (only needed for test purposes).

Some users were experiencing difficulties when the "Skip unused ports" was activated. This feature has been deactivated until the cause can be found.

## **Older versions**

For the versions before version 1.3.8 there have not been any release notes.