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## Eagle Point Solution to a Frequently Asked Question

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### Enhancements in *SMI Transfer 98* since *wSMIxf* Version 1.0 Beta

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**Summary:**

This document provides a list of enhancements made to *SMI Transfer 98* since *wSMIxf* Version 1.0 Beta.

**Product:** SMI Transfer 98

**Platform:**

**Related documents:**

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**Note:** This enhancement lists starts with the most current enhancements made.

#### Version 3.0x Transfer 98

- Multiple simultaneous downloads into the same data directory now work. This works by creating temporary files in the system temporary folder, instead of the data directory. This was creating a problem where the parts of each file would appear in all of the downloads and/or crashes.
- Conversion to TDS raw improved to work with Geopak.
- TDS default file extension changed from RAW to RW5.

#### Version 3.0w Transfer 98

- Changed about box and file version resource copyright to Eagle Point Software.
- Printing now displays complete file path in header, did just display filename.
- Now there are four installations, non-cvc, cvc, non-cvc + 95a dlls, and cvc + 95a dlls. The installations with 95a dlls include the system DLLs "oleaut32.dll" and "olepro32.dll". This should fix the problem with win95A users.
- Changed Help | About wsmixer text to About SMI Transfer 98.
- ASCII coordinates with large exponents no longer cause a crash.
- ASCII coordinates with exponents larger than 300 have their exponents set to 300, this is a limitation of the 'double' c type. The 48 can use exponents up to 499. No realistic survey should hit this limit.
- ASCII coordinates with numbers greater than or equal to 100,000,000 (one hundred million) now use exponents with a lower case e notation. A scientific notation format is used.

#### Version 3.0v Transfer 98

- FBK now properly writes AZ records, this was broken in version 3.0q.

### **Version 3.0u Transfer 98**

- Open File dialog started in My Documents sometimes (only on 98). This was removed. It always starts in the data directory.
- Can now download AutoCAD DXF format directly from the HP48.
- Fixed crash when converting to FBK when source raw file had multiple shots at the same angle sometimes.

### **Version 3.0t Transfer 98**

- Added "ASCII No Spaces" format.
- Fixed Defaults button on Customize Coor Options dialog.
- Fixed memory leaks.
- Added descriptions to DXF conversion. Point descriptions now appear in the DXF file.
- Fixed TDS RAW conversion crash, crash occurred when comment was larger than 255 characters.

### **Version 3.0s Transfer 98**

- Removed Apply button from the main dialog.
- Added ability to convert V6 cutsheets to V5 during download.
- Added limited DXF support to Convert destination combo.
- When sending jobs with spaces in the filename, the jobname is truncated at the first space in the DC. Used to give "Invalid Job Name" error on the DC.
- Added SMI Turbo 48 v6 collector support.

### **Version 3.0r Transfer 98**

- Fixed minor bug in Lietz SDR format, 02 records didn't have point # for certain records.
- Fixed Points to TDS bug.

### **Version 3.0q Transfer 98**

- Unit conversion now includes these types: METERS, FEET\_US, FEET\_INTL, MILES, KILOMETERS
- Sped up Raw to ASCII conversion.
- Specifying an invalid data path will now display a warning.
- Drag & Drop re-enabled.. now that we have an .exe to patch win95 a.
- Modified FBK file format to minimize the # of 90000+ point #'s.
- Changed "OK" to "Transfer" on the main dialog. Also, changed it to "Convert" when Convert is selected.
- Added SMI 48DOT v5 and SMI 48DOT v6 collectors.

### **Version 3.0p Transfer 98**

- Fixed version 5 raw from DC problem. Was giving error 28: Invalid Type.

### **Version 3.0o Transfer 98**

- Installs now include version number. Before, you had to install it to tell what version it was.
- Raw Data format will change to v6 if user has a v6 collector selected and has v5 raw selected. Raw Data format will change to v5 if users have a v5 collector selected and has v6 raw selected.

- You can transfer directly TO and FROM dc with C & G Binary.

#### **Version 3.0n Transfer 98**

- Fixed bug where zero length notes for SideShot records was causing "invalid type" error message.
- Removed "Drag & Drop" support because users with pre-patch Win95 need to get an updated OLEAUT32.DLL before the program will work.

#### **Version 3.0m Transfer 98**

- Fixed a bug where points were not appearing sometimes when converting from raw files to ASCII files.

#### **Version 3.0l Transfer 98**

- Added "VA DOT RAW" type.
- FBK RAW now writes descriptions with quotes around them.

#### **Version 3.0k Transfer 98**

- Removed Rename options on Setup tab when sending TO DC. They are not used.

#### **Version 3.0j Transfer 98**

- Added support for conversion to and from C & G Binary format. Installs now include CRDDLL.dll.
- Moved Feet to Meter conversion controls to Coordinate Options tab.

#### **Version 3.0i SMI Transfer 98**

- Fixed bug that happens when sending large ASCII files (>240 points) to the 48.

#### **Version 3.0h SMI Transfer 98**

- Added TDS Coordinate file type. (Can read and write TDS RA5 coordinate files)
- Added Edit Menu for Chain Editor.
- Fixed bug that happens when converting from Raw to ASCII. Often appears as a Message Box that says that it can't find a previous point. (Bug appeared after the edit that makes ASCII files always writes points in order [from version 3.0g]).
- Fixed bug that was added when the Edit Menu for the Chain Editor was added.
- Added Feet to Meter Conversion ability to Convert Tab.

#### **Version 3.0g SMI Transfer 98**

- Can now save the binary file from the 48 exactly as it was received and send it back exactly as it was.
- Chain editor can now open any length of file. There was a (generous) hard-coded 100k limit before.
- Sending 48D coordinate files to the 48 now works.
- Removed duplicate TDS\_RAW in convert destination formats Combo-Box.
- Converting from 48D Coordinate format with duplicate banks now opens an "Err.48" file which is the same format as the destination format but with replaced duplicate banks.
- 48D\_C format renamed to V6 Binary.
- Fixed out of order points not getting sent to 48 (some points missing).
- ASCII files now ALWAYS write points in order.

#### **Version 3.0f SMI Transfer 98**

- Combo Box on the Raw-Options Property-Page now displays the last used format instead of a blank.
- SMI Raw v5 can now read and write SD fields correctly. (Was writing ?? instead of SD).
- Made DOS Install script.
- Fixed DOS error when transferring a SMI RAW v6 file to the PC.  
Error was: Stack Fault: Floating Point Error. Didn't occur until the conversion.

### **Version 3.0e SMI Transfer 98**

- Added chain editor.
- Compiling with VC++ 5.0
- Fixed header file to allow other directories.
- Added \*.asc \*.cut \*.raw \*.ch to FILE | OPEN dialog.
- Fixed GA DOT install to include gadot.txt and the correct ini file.
- Sets current directory to the data directory when the program starts.
- Added ability to convert from SMI RAW v6 to SMI RAW v5.
- Right Clicking in the standard Transfer window now pops up Edit Menu.
- Drag & Drop files from windows explorer.
- Registers .asc .cut .raw and .ch file types for opening in Windows Explorer. (Only if there isn't a currently registered application to handle those file types).
- Prints now include filename at the top of each page.
- The Find-Port feature now includes instructions and support for Version 6 Data Collectors.
- Fixed bug in the .dll where in certain circumstances it was stripping the first character from the note when transferring to the data collector. (specifically with the GA DOT version using ACE v3-v5)
- Fixed bug in the DOS version where when transferring .asc files that has 0 for a coordinate or elevation which was producing the following output:  
Log10: SING error  
POW: OVERFLOW error  
Floating point error: Stack fault.  
Abnormal program termination
- Added the DOS utilities topc.exe topcraw.exe to48.exe config.exe and convert.exe to the install.
- Added support for sending and receiving coordinate files with the TDS data collector.
- Added directory listing when pressing F2 "Send A Coordinate File to the 48" in the DOS smixer.exe.
- Added support for receiving and converting to and from TDS RAW data files. Conversions are not 100% complete. Need more documentation/sample raw data files. All unhandled record types get converted to comments.
- Added new and fixed existing command line options to smixer.exe (see smixer.doc)
- Fixed Out-Of-Order points bug for the TDS collector.

### **Version 3.0d SMI Transfer 98**

- Bb - All collectors prompting for chain but there is no chain control.

### **Version 3.0c SMI Transfer 98**

- Removed BETA from title.

### **Version 3.0b SMI Transfer 98**

- Ba - Remove Send all jobs option from transfer program
- Ba - T97 & T98 had HMS rounding problem when converting from SMI RAW to FBK. If even number of minutes added 40". Brian Bailey 603-528-3734
- Bb - FBK format was not putting codes on previous line - also put description after code and removed quotes from descriptions.
- Fixed prompting for CVC V6.
- Fixed transfer of chains and cutsheets to/from PC.
- Ba - Renamed chains were sent to 48 w/o .CH in name.
- Notes and Codes are now expanded in all raw data formats except SMI Raw.
- Bb - Converting Raw to Coord, Trig level Dir & Rev zenith angles were not averaging correctly.
- Bb - Point Coordinate records that replaced the occupied point were not updating the elevation of the occupied point.
- Bb - SMI Kermit v6 Data Collector added to list of data collectors. Uses KERM menu in JOBS menu. Has the advantage of merging points in the 48 and being able to send ranges of points from the 48.

### **Version 3.0a SMI Transfer 98**

- Ia - MSV\*.DLL and MFC\*.DLL files are no longer required or shipped.
- Ia - Calling convention of XFERDLL.DLL changed.
- Ia - Stopped shipping cdrvxf32.dll and commsc32.dll
- Key presses for Version 6.

### **Version 3.0 SMI Transfer 98**

- Ia - supports version 6 transfer.
- Ia - SMI Raw data format enhanced ( see V6Raw.doc ). Raw data types made aware of enhancements.
- Bc - Default overwrite radio button now set when program started.
- Ib - FBK, SDMS, and SDR formats now have notes in occupied station and point records.
- Bb - When converting from raw data to coordinates HI and HROD are now ignored when a CE (Change in elevation) field is used in the shot record.
- 6. Ib - Text no longer wraps inside window.
- Ib - Fonts & colors can now be applied to the files. The formatting information is NOT stored with the file.
- Ib - Page setup allows setting the margins.
- Bc - Empty file that was coming up on startup is now immediately closed.

### **Version 2.0b**

- Bb - Fixed print preview font.
- lb - Error message for "can't read source file" now suggests user should close it.
- Bb - CVC transfer can now send old PCEnter .CH files to the 48.

### **Version 2.0a**

- Ba - Fixed printing and print preview.
- CVC - Bb - Labels for control files corrected.

### **Version 2.0**

- Made "Yes" comparison of ExpandNotes option case independent.
- Made XFERDLL.DLL easy to be called from external programs.
- Removed unimplemented DXF Transfer.
- Removed Raw formats except SMI Raw from list of formats to convert from.
- Coordinate adjustment distances can now be negative.
- Verified that all Coordinate options work.
- Bb - Default scale is now 1.
- Raw->Coor conversion now working, verify raw convert options.
- When converting from Raw data to Coordinates, point coordinate records are no longer given a note from the previous shot record.
- Earth's Curvature now remembers setting in INI file.
- Changed name to "SMI transfer 97".
- "Find Port" button in Setup page to help find ports.
- lb - Fixed width font now used in edit windows so that Raw & Coor data line up correctly.
- lb - Expand Notes added to edit menu.
- Bb - Sending RCR file to PC now works but can't be displayed because it is a binary file. Some Survey programs can read these files.
- Bb - Roundoff error in reading raw angles corrected.
- Bc - Default delay time when INI file missing is now 0.
- Bb - Merge (Ignore duplicate points) now works.
- Bb - Program now remembers replace/merge options in convert window.
- lb - Added several more file formats.
- lb - Put Expand notes toggle and edit button in COOR options page.

- lb - Now saves format to ini file when OK button pressed in customize format window instead of Coor Options window.
- lb - Now doesn't try to support multiple file transfer
- lb - Browse button improved.
- lb - Improved help file.
- lc - Changed name to SMI Transfer 97.
- lc - Removed file formats not supported yet.
- lb - Set character pacing to 0 again.
- lb - Removed NOTES.DAT from Edit menu. It is available in the Coordinate Options menu.
- lb - Customize Coor Help button doesn't work
- lb - The ? icon and a new Contents option in the help file both bring up the contents page of the help file.
- Bc - Large files can now be opened.
- CVC - Switch order of xfer - send Chain before cut sheet.
- CVC - Adds .CH when getting chain from 48.
- CVC - Progress bar is removed when sending chains & cut sheets.
- CVC - Chains from 48 formatted to be more readable.

#### **Version 1.0c**

- Added GRE data collector to list of data collectors in the ToDC window.
- Raw data from the 48 or from an RCR file is now automatically recovered if the raw data is corrupted.

#### **Version 1.0b**

- SMI GRE added list of data collectors and GRE RAW added to list of raw data files.
- Prompt for To48 used to say press ENTER ENTER. Now it doesn't.
- Added accelerator key for Find Again (F3) and Find (Ctrl-F3), and Replace (Ctrl-H).
- Browse button now copies directory into Data Directory Field.
- Printing and Print Preview now work.
- SDMS format: HI value was getting put in HROD fields.
- Default Data directory now current when selecting files.
- SDR format now only puts backsight (07), height of instrument (02), and height of rod(03) records into file when they change.
- Fixed freezing up of program that occurred when trying to use a port that is in use (mouse, modem, etc.).

#### **Version 1.0**

- Default data collector is now DCE. (stored in INI file)