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Eagle Point Solution to a Frequently Asked Question

Enhancements in *SMI Transfer* since Version 7.0

Summary:

This document provides a list of enhancements made to *SMI Transfer* since Version 7.0.

Product: SMI Transfer 7.0

Platform:

Related documents:

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As always, should you have any questions regarding any phase of installation, contact Eagle Point Technical Assistance at (800) 477-0909.

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

Version 7.0 U – 05/29/2003

- Both Web install and CD Install now default the install directory to the previous installation directory.
- Fix for super large negative #'s causing buffer overruns and crashing during conversions.

Version 7.0 T – 10/02/2002

- Fixed chain files truncating decimal places for beginning station (only V7 style transfer).

Version 7.0 S – 05/31/2002

- Added support for Com ports 5-9. Com ports 1-9 are now listed in the Port Selection combo boxes. Ports with "NA" after them are not available. If Com ports 1-9 are currently unavailable, when pressing TODC or FROMDC, a message box will appear and warn the user. If the current Com port is not available, but other Com ports are available, it will ask the user if it is OK to change the Com port to the first available port. The Find Port feature now also searches COM 1 – 9.
- Fixed bug that occurred when Transfer tries to open a Job Backup (.48d) with a large number of chains. This bug was due to a fixed buffer length issue.

Version 7.0 Q – 05/15/2002

- Fixed chain bug when sending TODC with SMI V7 only Parts of the chain would not appear in the data collector and the transfer would stop prematurely without any error message.

Version 7.0 P – 04/19/2002

- When downloading TDS_RAW, Transfer no longer performs a TDS-RAW to TDS-RAW file conversion (just a file copy).
- Converting from a TDS-RAW to a TDS-RAW does a File Copy now instead of convert.
- TDS raw files now get a .RW5 file extension and coordinate files get a .CR5 file extension. There was an override in the code to force them to .raw and .asc previously.

- Chain files transferred with SMI V7 now follow the merge/replace options.

Version 7.0 O

- 7.0 N did not work on Win98. This version fixed that bug.

Version 7.0 N

- Fixed permission problem. If the data directory is in a remote shared dir, and the user logged in does not have permission in the ROOT of the share, transfers would fail due to a problem where transfer tried to create a temporary file in the root of the share. This is the behavior of tmpfile() when the current directory is a shared directory. Example: the share name is "SURVEY" but the user only has access to "SURVEY\DATA." This would fail since tmpfile() would try to create a temporary file in "SURVEY," for which the user does not have permission.

Version 7.0M

- Added LandXML 1.0 support for coordinate data. Visit www.LandXML.org to learn more about this industry standard data format.
- Fixed DXF format only showing up on the Convert dialog box when an ASCII format was selected.
- Fixed random characters appearing as descriptions when doing expand descriptions on blank descriptions.

Version 7.0 K

- Fixed FBK – it no longer writes the AZ records, followed by BS records, every time it writes BS records. Now it only writes AZ followed by BS when it is generating a point.
- Fixed memory leak in DATA_FILE::ParseNote().

Version 7.0 J

- Fixed bug that would not allow you to do a FROMDC on pre-V7 data collectors with any of the following raw formats selected: SMI Raw v5, TDS RAW, SDR33.
- Main window now correctly restores its state to maximized if it was maximized when it was last closed.
- Fixed a hard coded buffer limit in transferred files. The symptom of this before was that if you downloaded a large number of jobs with a large number of chains, only so many were opened in Transfer, even though all of them were downloaded. Now the buffer is dynamically allocated and ALL job files should open, regardless of how many job files are downloaded at once.
- When converting from the new SMI raw with the comment extension header, it no longer considers this a comment and will not include it in the destination file.
- Added xferdll.dll export SMI_SetINIFilePaths() that allows third party developers to change the location of the main ini file and notes ini file.
- Fixed third party hidden interface bug: paths with spaces caused naming problems on the data collector.
- Fixed third party hidden interface bug: when sending coordinate data to TDS collectors, the job name would show up on the collector as ". CR5."
- When transferring data with version 6 collectors, the progress windows now show CARD V6-V7 (as opposed to CARD V6). This change mainly was to allow third party developers using the hidden interface to be able to specify a V6 collector when the user has a V7 collector so they can still use the XFER command on V7 collectors and still maintain visual consistency.

Version 7.0 I

- Geoid file transfers now work at 115,200 kbps.

Version 7.0 H

- Version 7 protocol "Joblist Request" now resends joblist requests and displays the number of retries on the progress window. It used to only send it once and would time out.

- Version 7 protocol now pauses 200 milliseconds after every command sent to the 48.
- Selecting Data Dir button on the V7 TODC window now displays the message “Select current directory” on the Browse for folder dialog box.

Version 7.0 G

- Included SDR 33 raw format support (write only).
- Version 7 protocol “Server Start” now displays the number of retries on the progress window.
- Version 7 protocol “Version Request” now resends the version request and displays the number of retries on the progress window. It used to only send it once and would not time-out.
- Sending renamed backup files (.48d) TODC works. Before this change, sending a renamed backup file TODC would create a job with the same name as the renamed file, and none of the points would recall. This is because internally to the .48d file, the job name of objects still had the old name and this difference caused it to fail in the 48. The job name that is sent to the 48 is the name of the job inside of the .48d and not the file name of the .48d.

Version 7.0 F

- Bug when sending jobs TODC fixed.

Version 7.0 E

- Fixed bug that happened on Windows® 98 systems, which would show large files truncated when opened in Transfer. This bug was introduced in 7.0A for the blank page print fix. Both problems are fixed.
- Increased timeout for V7 protocol Job List ETX character to 30 seconds, and now it displays a dialog box that shows how many job list bytes have been received, and allows the user to cancel the operation. This should fix the problem with getting a timeout error message if the collector has a large number of jobs.
- Remembers what file types were selected on the FROM DC window for the SMI V7 collector.

Version 7.0 D

- Raw FROM DC fixed. Previously, if you transferred more than one raw file before closing the program, all raw files after the first raw file would appear blank, except the header.
- Default data directory changed to \InstallDir\Data.
- Install deletes file type associations for .48d, .asc, .ch, .cut, .ntb, and .raw file types so that next time Transfer is run, it will re-map these file extensions to itself. This guarantees that a reinstall and a single execution of Transfer will make these file types map to SMI Transfer.
- Fixed problem with not being able to locate Help file and .pdf file when data directory is not the same as the install directory. Transfer now always looks in the same dir as the .exe file.

Version 7.0 C

- Sending Geoid files now displays the file path on the progress dialog box.
- Fixed bug for sending chains to older collectors. The .CH was not appended.

Version 7.0 B

- Includes new Help file and PDF file.
- Help file is now called “Transfer.hlp” and “Transfer.cnt”
- Removed Help Topics menu item.

Version 7.0 A

- Select job list dialog box (for chains) in V7 chains TO DC selects the first job by default.

- Printing blank pages after printing pages with data was fixed.
- V7 Chain TODC had bug fixed for odd-aligned bak/obs. This was producing the error, "Unable to read input file! File may need to be closed."

Version 7.0 up to Alpha G

- Renamed from Transfer 98 to Transfer 7.
- Under Help menu, added "Find Port," "Setup Wizard," and "View SMI Website."
- Menus do not change based on which document is opened. All menus stay the same.
- Added Print Preview toolbar button.
- Removed "New Window" from the Window menu. This is supposed to allow for multiple views of the same document and did not work properly in Transfer 98.
- Can now open ".48d" (SMI V6-V7 binary) and ".ntb" (SMI note table) files. The ".48d" editor only displays information about the jobs that are in the binary file. The ".ntb" editor is one line per note and allows you to edit and save.
- Added SMI V7 to the list of data collectors in the TODC and FROMDC dialog box.
- Rearranged the list of collectors in the TODC and FROMDC dialog boxes so that V7 is first, V6 next, then v5.
- Only need to choose SMI V7, no matter what type of V7 DC card is used.
- On the Setup dialog box, changed "Port for 48" to "Port".
- On the Setup dialog box, removed "Character Pacing."
- On the FROMDC window, added a "Create a backup copy" toggle on download – this will create a non-editable copy of files downloaded in the same directory.
- Changed main icon of program.
- Removed third party Serial DLLs (Cdrvdl32.dll and Cdrvhf32.dll) and replaced with our own better serial driver code. Now transfers in general are faster. Old DLLs were slow and did not clean up memory.
- Implemented true range of points. Now you don't have to download the entire job to get just a few points. This was mostly a change on the data collector.
- When using the "SMI V7" collector, you can transfer multiple jobs at once.
- When using the "SMI V7" collector and performing a FROMDC operation, you may now view and select from a list of jobs on the data collector.
- When sending a chain TODC, you are allowed to select what job the chain is to go into.
- New naming scheme for chain and cutsheets. Now use the format "JOB_CHAIN.CH." When sending a chain using this naming format, you are not prompted for what job to insert it into. Chains downloaded using the "SMI V7" collector are now saved using this scheme.
- Added "SMI V6 Binary Coord" and "SMI V7 Binary Coord" and "SMI V6 Binary Raw" and "SMI V7 Binary Raw" to list of file types. These may be used to convert a binary file (.48d) into Coordinates or Raw. There is no difference in the V6 and V7 here – V7 was added to eliminate confusion.
- All references to Control Files have been renamed to Chain Files.

- Fixed customized format header file problem – it would no longer appear in the output file.
- Fixed problem when northing and easting separators were not switching places when “East before North” was selected in a custom format.
- Changed dialog box window name from “Edit Notes.dat” to “Customize Expanded Descriptions.”
- Made rename edit windows on TODC and FROMDC property pages disabled when the corresponding format is disabled.
- Main window position is now persisted between sessions.