

PeerSync, Peer-To-Peer Folder Synchronization Utility, Version 7.4

To upgrade, double-click on the installation file (ps74.exe) in the Explorer window, or choose "Run" from the Start Menu and then select the application.

If you are upgrading the current version of PeerSync (7.4.2 to 7.4.3) simply install the application over your existing PeerSync and the previous version will be backed up in a sub-folder called 'BACKUP' (if the option to keep a backup is selected during the installation).

If you are evaluating a new version of PeerSync 7.4 and you already have an existing copy of PeerSync 7.3 or older, please select a new directory during the installation.

Note: For more information on the latest features and how to implement specific scenarios please go to: <http://www.peersoftware.com/support/peersync.aspx>

Synchronization	
ID	DESCRIPTION
NA	Resolved an issue where the "Exclude open files (deny all access to source file during transfer)" option would not work properly when a file would be transferred using the ByteReplicator. The file could be opened for full access during the byte-level replication process and would not be protected.
NA	Fixed an issue where Adds and Updates would fail for read-only files when using the "Exclude Open Files (deny all access to source file during transfer)" option. PeerSync would throw a "Cannot open source file (Added To Retry List): FILENAME (Access is denied)" error.
NA	Resolved an issue where the Time Last Run (.tlr) value was not being updated if Real-Time was not enabled. This would cause files not be deleted, and potentially re-added, during an enhanced bi-directional scan.
NA	Fixed an issue where Scans were not being initialized and would fail if the source and/or target location were not available at start.
NA	Resolved an issue where Profiles with more than 10 Jobs would occasionally falsely report connection failures for Jobs that were not disconnected.
NA	Fixed a problem where PeerSync would occasionally freeze or hang the application or service if a connection would become disconnected during lots of activity.
NA	Resolved an issue when using the "Store missed events and process on reconnect" option. When this option was selected rename events that occurred during a connection failure were not processed correctly. There was an issue with the way the events were loaded from the event file.
Enhanced Scanning	
ID	DESCRIPTION

NA	Fixed an Enhanced Scanning issue that caused false connection failures during Bi-directional synchronization with temp files. With Enhanced Scanning set to a Tree Depth of 4 or 5 levels and scanning a source folder with lots of sub folders (a depth of 4 or greater) against an empty target folder PeerSync would occasionally get a connection failure or access denied error for some of the target folders.
NA	Resolved an Enhanced Scanning issue where the Folder and Checked count would be doubled during Bi-Directional scans. This issue would occur only during Bi-directional scans with the Enhanced Scanning option enabled. This might cause the scan to take longer for bi-directional scans.
NA	Added logic to block the use of the Enhanced Scanning option when used in conjunction with the "Enhanced Bi-Directional" option.

Performance

ID	DESCRIPTION
NA	Improved overall performance by eliminating unnecessary requests and checks to minimize network hits.
NA	Improved performance during bi-directional scans when using the Enhanced Scanning feature.

Enhanced Event Processing

ID	DESCRIPTION
NA	Fixed an issue where the Enhanced Event Processing caused file Adds to be reported as Updates or file Updates to be reported as Adds. Commonly this issue would occur when the source and target directories were out of sync. For example, if a file existed on the source but not on the target, when the file was updated on the source PeerSync would add it to the target and report it as an Update. Logging has also been improved to better report Adds and Updates that occur under such circumstances by adding a note of the original detection event (i.e. Add Detected or Update Detected).
NA	Resolved an issue where Real-Time events that occurred during a connection failure were not added to the Missed Event file when using the "Store missed events and process on reconnect" option along with the "Enhanced Event Processing" option.
NA	Fixed an issue where "Alternate Jobs" were being tried when using the "Enhanced Event Processing" option. "Alternate Jobs" should only be tried when the base Job fails.

PeerLock Interaction

ID	DESCRIPTION
NA	Improved event handling between PeerSync and PeerLock. If files are opened and modified quickly, depending on the timing, PeerSync may try to process the files before PeerLock can get a chance to detect and lock the corresponding target files, sometimes resulting in PeerSync "Cannot Open Source File" messages and/or PeerLock "Cannot Lock File" messages.

Added a wait period in which PeerSync will now wait for PeerLock before attempting replication. This wait period only applies when doing bi-directional synchronization and if the checking for PSLock files option is on for a Job. These values can be adjusted using the following command line arguments:

`/LVR:n` - Check For PeerLock Retries: n = amount of retries (default is 10 times)

`/LVW:n` - Check For PeerLock Wait: n = amount of time in milliseconds (default is 1000 ms)

The checking for and setting of PSLock files is enabled by bi-directional synchronization being turned on. To force on or off the checking for and/or setting of PSLock files by PeerSync use the following arguments (default is Off for all of the following):

`/LVDC` - Disable Check for PSLock Files

`/LVDS` - Disable Set PSLock Files

`/LVDCS` - Disable Check for and Set PSLock Files

`/LVFC` - Force Check for PSLock Files

`/LVFS` - Force Set PSLock Files

`/LVFCS` - Force Check for and Set PSLock Files

TCP WAN Connector

ID	DESCRIPTION
NA	<p>By default PeerSync will no longer allow the use of a network mapped drive in a TCP path. You are now required to specify a local drive letter on the remote TCP host. When attempting to specify a mapped drive for the TCP path PeerSync will throw one of the following messages:</p> <p>Cannot goto non-local drive on TCP host for source folder: TCP:\\127.0.0.1\S\Path</p>

	Cannot goto non-local drive on TCP host for target folder: TCP:\\127.0.0.1\S\Path
NA	Resolved an issue where TCP pulls of folders (with content) would only create the empty folders without content during the initial scan. The data would be pulled over on subsequent scans. This issue would occur whenever PeerSync is doing a pull from a remote TCP folder to a local directory.
NA	Resolved an issue where Bi-Directional scans with a disjoint TCP Target would not add folder content to the Source.
NA	<p>Added the ability to synchronize directly to a letter drive on the host. Previously, PeerSync would throw a combination of the following error messages when trying to synchronize to a letter drive:</p> <p>Cannot Build Remote Directory: c: - Connection Failure (check encryption settings)</p> <ol style="list-style-type: none"> 1. ... 2. TCP Connection Failure: TCP:\\armdev1\c\ (Connection Failure (check encryption settings)) (Connection Retry is Enabled) ... 3. PSLlistener responded with - Update Failure [BuildFile 2] Error: \\?\C:\WINDOWS\system32\PSROOT\C\FILENAME.BRTMP: (Added To Retry List): ... 4. Cannot set file date/time and/or attributes: ...
NA	<p>Resolved an issue where scans to TCP targets would intermittently fail in the middle. PeerSync would receive a combination of the following errors:</p> <p>Cannot Build Remote Directory: ... Connection Timed Out (Receive)...</p> <p>Cannot Build Remote Directory: ... Connection Timed Out (Send)...</p> <p>Cannot Build Remote Directory: ... Connection Closed by Remote (check username and password)...</p> <p>TCP Connection Failure: ... (Connection Timed Out (Receive)) (Connection Retry is Enabled)...</p> <p>TCP Connection Failure: ... (Connection Timed Out (Send)) (Connection Retry is Enabled)...</p> <p>PSListener responded with - Update Failure [BuildFile 2] Error: \\?\c:\path\to\folder\file.doc.BRTMP: (Added To Retry List): C:\path\to\folder\file.doc ...</p>
NA	Resolved an event oscillation issue that occurred during a bi-directional TCP scan where there was a disjoint target folder. The scan would bring the target folder to the

	source which would trigger a real-time scan of the folder back to the target.
NA	Fixed a problem where files were being missed after a connection failure was reestablished to a TCP Target.
NA	Resolved an issue where during connection failures PeerSync would not wait the correct time out.
NA	Resolved an issue where a scan would fail after a large file transfer when using a TCP Source path.
NA	Fixed an issue where PeerSync would fail to transfer files larger then 4GB when using a TCP Source or Target path. During this failure PeerSync would report the following error if the TCP Source transfer failed: PSListener failed to send data (Added To Retry List)... If the failure occurred for a TCP Target PeerSync would leave the target file in a partial and incomplete state. No failure would be logged.
NA	Resolved an issue where the Status Display would incorrectly show folder Adds for the root source folder when it already exists. This issue occurred only for TCP Pulls (Source TCP).
NA	Fixed an issue where PeerSync would leave a .BRTMP file on the TCP Target and report that the file was processed successfully. The issue would occur if the original Target file was opened or could not be accessed in order to rename the .BRTMP file to. If the "Use intermediate file during copy" option was enabled PeerSync would report a failure stating that the PSTMP file could not be renamed.

FTP

ID	DESCRIPTION
NA	Resolved an issue where PeerSync would fail to update FTP Target files in real-time under certain scenarios.

Retries

ID	DESCRIPTION
NA	Resolved an issue where Connection Failures were not always being retried.
NA	Fixed an issue where retries would not work after the first retry when using the "Enhanced Event Processing" option.

Attributes

ID	DESCRIPTION
NA	Added a new command line argument (/LG1) to allow real-time detection and analysis of folder attributes and ACLs. With this option enabled PeerSync will check the folder

	<p>for ACL and attribute changes in real-time whenever it detects that the folder has been updated. This check/validation will occur for all types of updates made to the folder. These includes changes that update the folder's Accessed and Modified time stamps, such as a change in the content of the folder (i.e. adding or deleting a file/folder).</p> <p>Use this argument if you wish to detect and replicate ACLs in real-time for empty folders or folders that contain files for which inheritance has been disabled. Without the /LG1 argument PeerSync would need to perform a scan in order to replicate the permissions for such folders or the permissions would be applied once a file with inheritance on was added to the folder.</p>
NA	<p>Resolved an issue where using the "Force target file attribute settings" option in conjunction with "Include attribute change as synchronization criteria" caused the target attributes to get overwritten the next time a scan was performed.</p>
NA	<p>Fixed an issue where PeerSync would exclude files due to file attributes even if all the attributes were included. PeerSync would log the reason for the exclusion as "Attribute Not Included".</p>

EOFM

ID	DESCRIPTION
NA	<p>Fixed an issue where EOFM with the "Include all open files" option enabled fails with a "Cannot write target file" error for open and partially locked PST files. This issue would occur when using one of the non-default copy commands: /GFC, /GFE, or /GFCE</p>

Blackout

ID	DESCRIPTION
NA	<p>Enhanced the Tray Icon animation and messaging during Blackout periods. The Tray Icon will now display a hint message (when you mouse over) to indicate that all the Jobs are in a Blackout period (if applicable).</p>
NA	<p>Fixed an issue where PeerSync would use high amounts of CPU during the Blackout period. This issue would occur when PeerSync would be in the middle of a scan when it entered the Blackout period and had the "Suspend active scans" option enabled. The CPU usage would return to normal once the Blackout period ended.</p>
NA	<p>Optimized Blackout functions when using TCP paths by eliminating unnecessary checks/calls to the PSLListener during Blackout periods.</p>
NA	<p>Fixed an issue where a Non-persistent Profile (Profile containing Job(s) that do not have Real-Time, Interval, or Scheduling enabled) would not check the Blackout settings at start up. Now, if a Job is in a Blackout period from the start the Job will not run at all. PeerSync will log the following error: "Job Process Skipped - Started during a Blackout"</p>

NA	Resolved an issue that caused TCP to fail when leaving the Blackout period if using the "Suspend active scans" option. Depending on where the scan was suspended calls to the PSListener would not complete, time out, and fail after the Blackout.
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Miscellaneous Options

ID	DESCRIPTION
NA	Improved the initialization of Profile loads at start of PeerSync by optimizing the creation of Job Menus in the PeerSync Status Display and Tray Icon.
NA	Fixed an issue where PSBak1 files were left behind in the source folder when using the "Move Files - Delete source file after successful copy to target" option in conjunction with Revisioning. This issue would occur for all source connection modes (local, UNC, FTP, and TCP).
NA	Fixed an issue where if a TCP source matched the target the "Move Files - Delete Source File after successful copy to target" option would fail.
NA	Fixed an issue where if the source path matched the target path the reporting and display would be for the target file instead of the source file. This occurred when using the "Move Files - Delete Source File after successful copy to target" option.
NA	Fixed an issue that occurred during a connection failure where PeerSync logged "Cannot Rename Target PSTMP file..." errors without logging a connection failure error. This would cause PeerSync to not Retry the file or perform a scan on reconnect as well as leave files in a temporary state with a PSTMP extension. This would occur when using the "Use intermediate file during copy" option.

Profiler/Interface

ID	DESCRIPTION
NA	Added a new "Help" toolbar button to provide another quick and easy way to access to the Help Manual.
NA	The Profiler will now display a warning dialog when specifying only a drive letter for the Source or Target path. This restriction has been added to prevent accidental loss of critical files residing directly bellow the drive.
NA	Added logic for the Profiler to check the version of the PSListener when loading an old Profile that uses the ByteReplicator or has a TCP Job. The Profiler will notify you if the PSListener is not compatible and needs to be updated.
NA	Resolved an issue where the Summary Dialog at the end of a non-persistent scan/run was not being shown. This issue only occurred if Real-Time was not enabled.
NA	Fixed an issue where a form was shown as a small dialog in the upper left corner of the screen when clicking on the PeerSync Status Display from the Taskbar.
NA	Resolved an issue where the "PeerSync Status Display" > "Job Status" tab > "Current Status" columns for alternate Jobs would show "Connecting..."
NA	Resolved an issue where the Profiler would occasionally display the following error: "Access violation as address 004625D0 in modules

	'PSProfiler.exe'. Read of address 00000004."
Reporting	
ID	DESCRIPTION
NA	Improved the display and reporting for "Move Files..." operations.
NA	Improved the reporting of Exceptions from the Target to be easily distinguished from Source folder Exceptions.
NA	Resolved an issue where the Retry counter (i.e. Retry (n)) was off by one when using the "Exclude open files (allow read access to source file during transfer)" option. For example, when a file was retried for the first time PeerSync would report "Retry (2)".
NA	Resolved an issue where Email reporting did not properly set the Sent From date and time.
NA	Resolved an issue where file Updates were reported as adds when processed through the ByteReplicator or if Real-Time was not enabled.
NA	Fixed an issue where files excluded during a Bi-Directional pull were not being logged or reported.
NA	Resolved an issue where failed connections at load of a Job were not being tracked and displayed correctly.
NA	Fixed an issue where connection failures for bi-directional synchronization Jobs with a TCP Target were being incorrectly reported as Source connection failures.
NA	Fixed a problem where the "Last Run on Date/Time" was reported twice. In some cases it would be reported after the "Finished Processing Job Scan" entry in the log file.
NA	Resolved an issue where during connection failures PeerSync would log the incorrect TCP Source and Target paths. This would usually occur when using the "Enhanced Event Processing" option. For example when a connection failure would occur for a TCP Target, PeerSync would log a connection failure entry for both the Source and Target paths.
NA	Fixed an issue where Jobs with TCP or FTP selections may not have logged file exclusions properly.
NA	Resolved an issue where Admin or Email Reporting would not work during scans if the "Include attribute change as synchronization criteria" option was enabled. Events that were not being reported included: <ul style="list-style-type: none"> - Attribute update - Folder Adds - Blackout period messages - Application Errors

	<ul style="list-style-type: none"> - Bi-directional Folder Renames - Bi-directional Folder Deletes
NA	Resolved an issue that occurred during connection failures where PeerSync would log a "Cannot set file date/time and/or attributes" error. Subsequently an entry would be added stating that the file was added successfully.
NA	Fixed an issue where files that failed to be Added due to connection failures were being reported as Updated when Retried.
NA	Resolved an issue where PeerSync would not log the initial creation of TCP source or target folders. The message count would increment and the message display would receive the entry but no log entry would be made.
NA	Resolved an issue where the "Create initial source/target folder..." message would be logged before "PeerSync started ..." entry.
NA	Fixed an issue where TCP Target updates due to attribute changes did not contain the TCP host prefix.
NA	Resolved an issue that occurred during folder Adds. PeerSync would report an Update of the folder ACLs as a 'File Update'. It would then log an entry for the folder Add. Now folder Adds that need an ACL Update will be reported in-line with the Add of the folder. This matches the way file Adds are reported when ACL updates need to be made after the transfer.
NA	Resolved a reporting issue where internal files such as *.~PSTMP were being reported in the exclusion list during scans. By default internal exclusions should be suppressed and not reported unless using debug arguments.
NA	Fixed an issue where progress during TCP pulls with multiple Copy threads was not accurately updated. Occasionally the progress for one file was displayed with the information for another file.