

## PeerSync, Peer-To-Peer Folder Synchronization Utility, Version 8.0.2

To upgrade, double-click on the installation file (ps80.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 to 8.0) 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 8.0 and you already have an existing copy of PeerSync 7.4 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>

Performance	
ID	DESCRIPTION
983	Improved the logic that caused scans to take longer to complete when using the "Check for ACL changes during scans" option.
1250	Improved the default real-time detection performance.
1251	Improved overall performance and reliability.
1263	Improved performance and Status Display updates when processing retries.
1276	Resolved an issue where real-time events were sporadically missed when using lower <b>Application Priority</b> settings.
1280	Improved performance during scans especially for Jobs with TCP, Enhanced Scanning, and/or remote source folders.
Synchronization	
ID	DESCRIPTION
1275	<b>NEW!</b> Improved real-time detection behaviour for excluded folders when using the <b>/QR</b> (Real-Time Global Exclusions) argument. Use this argument to exclude real-time events earlier in the process and throw the events away. This argument will not log/report the exclusions. Improves performance when a high amount of events need to be excluded.
994	<b>NEW!</b> Added a new command line argument <b>/Q83</b> to resolve an issue that caused oscillation of <b>ACL</b> events during bi-directional synchronization.
1145	Resolved an issue where large folder additions in real-time would cause PeerSync to throw exceptions and cause random failures. Overall, improved real-time scan logic for folder adds.
1225	

1233	Fixed an issue where real-time detection of sub folders that were in short path format would cause PeerSync to create short paths on the target. In a collaboration configuration this could result in two sets of data on the target or the transfer of data to/from long or short paths based on the side sending the data. Now PeerSync will try to expand paths that contain a tilde (~). Use the <b>/Q80</b> (Disable Expand Short Paths in Real-Time) command line argument to disable this new behaviour.
1237	<p>Resolved an issue that caused possible false <b>connection failures</b> when the target folder had limited access. For example, when target folders only had read access a false connection failure would occur when real-time detection of corresponding source files were updated in a sub folder of that path.</p> <p><b>Example:</b></p> <p>Source is C:\Data</p> <p>Target is S:\Data</p> <p>When "S:\Data\ReadOnly" is a read only folder and you add a file to "C:\Data\ReadOnly\Sub1" in real-time a false target folder connection failure will occur and PeerSync would get stuck in a state of fail-reconnect-fail-reconnect cycle for each retry and connection failure check.</p>
1238	Fixed an issue where <b>connection failures</b> did not get reestablished and the Job would no longer process any changes.
1239 1240	<p>Fixed/improved the folder rename and delete behaviour that occurred during scans. This would have caused the list of directories to no longer be valid resulting in the following:</p> <ol style="list-style-type: none"> <li>1. "Cannot Find/Access Folder:..." messages would be logged for each folder no longer valid including sub-folders and a delay of at least one second per sub folder during this scenario.</li> <li>2. If real-time was turned off or PeerSync was using the /ENSCAN (do not scan after folder adds and renames) argument the target would be left out of sync until the next scan.</li> <li>3. Possible "RT-Could not rename folder" messages and "failed events" would occur if the source and target did not match before the scan and the bi-directional synchronization option was selected.</li> </ol> <p>The solution includes adding a Job level Pre/Post Process argument <b>RESCANRENAMEDDELETEDFOLDERS</b> to exit and restart the scan when encountering an invalid folder.</p>
920	Resolved an issue that caused a skeleton/empty folder structure to be created in the source <b>PSDeletions</b> folder during a scan containing disjoint target sub-folders with content. This occurred when using the Bi-directional Synchronization option with "Always create a super-set during bi-directional synchronization" and when using a deletion path with the %TARGETROOT% variable.

901	<p>Resolved an issue that caused excessive <b>Internal Retries</b> (IR) when a large number of files were added. As a result the Internal Retries may cause the add process to take longer, some files to be retried more often than specified, as well as the folder count to be inaccurate in the Profiler. Added a new argument <b>/Q84(C)(D)</b> for internal retry options:</p> <p>/Q84C = Check retry list before adding internal retry</p> <p>/Q84D = Disable internal retries</p> <p><b>Note:</b> Benefits of using these options: 1. Better statistics 2. Improve performance if events are being processed too slowly when they are being retried.</p>
1154	<p>Resolved an issue that would cause PeerSync to fail to process events or quit after running for more than 50 days. The following copy thread failure would be logged in the PSError log: ERangeError - Range check error (EnhCopyThread X1fb:1 0 0). TCP and ByteReplicator transfers would also fail if the PSListener would be running for more than 50 days. The following error would be logged: Connection Closed by Remote (check username and password) (Added To Retry List):...</p>
1262	<p>Fixed an issue where an <b>Internal Deletion Cleanup Job</b> would not be able to recover from a connection failure if it occurred at initial start. The issue appeared to occur when using the %TARGETROOT% variable for the Deletions folder in conjunction with the "Delete unmatched target files older than x days" setting.</p>
1264	<p>Resolved an issue where <b>Reprocessing Failed Files</b> occasionally caused scans to occur instead of just processing the failed file(s).</p>
1286	<p>Resolved an issue that occurred during bi-directional scans. In some cases PeerSync would fail to properly add files to the <b>Retry</b> and/or <b>Failed Files</b> list. This occurred when PeerSync was unable to add/update files on the source because the target files were open and in-use.</p>
<b>Enhanced Scanning</b>	
<b>ID</b>	<b>DESCRIPTION</b>
1256	<p>Fixed an issue where false <b>connection failures</b> occurred when using <b>Enhanced Scanning</b> and/or when lots of Real-Time (RT) Scans were running for folder adds. The issue occurred sporadically, most commonly during long scans with lots of expanded Jobs for large data sets.</p>
1257	<p>Resolved an issue where PeerSync would sporadically stop working when using <b>Enhanced Scanning</b> and/or when lots of Real-Time (RT) Scans were running for folder adds. The issue would occur during long scans with lots of expanded Jobs for large data sets. The fix improves performance for Profiles with large amounts of dynamic Jobs due to Enhanced Scanning and/or Real-Time (RT) Scans.</p>

<b>1277</b>	Resolved an issue where two Jobs using <b>Enhanced Scanning</b> with the same source would sporadically causes PeerSync to freeze during aggressive/overlapping scanning cycles. For example, if you schedule scans to run every five minutes, but the scans take ten minutes to run.
<b>1283</b>	Fixed an issue where empty PSDeletions folders appeared and disappeared at various folder levels in the target. This occurred when using the <b>Enhanced Scanning</b> setting along with the %TARGETPARENT% variable for the Deletions folder path. Subsequent scans would delete the empty/bogus PSDeletion folder(s).

### ByteReplicator

ID	DESCRIPTION
<b>1228</b>	Resolved an issue where PeerSync would sporadically freeze when using the ByteReplicator and/or TCP.
<b>1281</b>	Fixed an issue where using a '\$' symbol in a file path/name, the symbol was being removed/stripped.

### FTP

ID	DESCRIPTION
<b>1221</b>	Resolved an issue where file adds/updates would fail for some FTP Targets on Linux machines when using the "Use intermediate file during copy" option. The following error would be logged:  Cannot rename target PSTMP file (Added To Retry List) : FTP://Server/Path/File.doc.PSTMP to FTP://Server/Path/File.doc....

### TCP

ID	DESCRIPTION
<b>1228</b>	Resolved an issue where PeerSync would sporadically freeze when using the ByteReplicator and/or TCP.
<b>1270</b>	Fixed an issue where failures occurred when transferring large files using low "File Read/Write Buffer Size" settings to a TCP Target. This could occur when using the "Throttle bandwidth - Use x percent of available bandwidth" option which lowered the "File Read/Write Buffer Size" setting. Seemed to also be related to the "Block Size Selection". If this setting was very high while the "File Read/Write Buffer Size" setting was low the failure would occur more often.
<b>1280</b>	Improved performance during scans especially for Jobs with TCP, Enhanced Scanning, and/or remote source folders.

### Profiler/Display

ID	DESCRIPTION
<b>1229</b>	Fixed an issue where the <b>Access Password</b> dialog was sometimes displayed multiple times when connecting from the Profiler and would sometimes prevent the restart of the Profile.

<b>1254</b>	Resolved an issue where the <b>Blackout Settings</b> slider was not marked properly for the period selected and was displaying incorrectly.
<b>1265</b>	Fixed an issue where the <b>Stop</b> and <b>Start</b> toolbar buttons were being display when no Profile was loaded.
<b>1266</b>	Resolved an issue which caused the <b>Help</b> toolbar button not to work.
<b>1267</b>	Resolved an issue where the "X of Y" folder counter in the Status Display was occasionally inaccurate.
<b>1160</b>	Fixed an issue where folders that contained the ‘&’ symbols later on in their paths would not be resolved properly.
<b>1230</b>	Resolved a display issue which showed EOFM as available in the EOFM Global Options instead of VSS. This occurred when VSS was enabled in the registration code and EOFM was not installed.
<b>1231</b>	Resolved an issue that would occasionally report a "Source and Target paths cannot be the same" message at the start of the Profiler when <b>Trigger Files</b> were enabled.

### File Compression

ID	DESCRIPTION
<b>712</b>	Resolved an issue where <b>File Compression</b> was not working when using the same folder as both the source and the target. This feature would be used when users wish to compress files in-place without moving them to another folder/location. For this to work properly the "Move Files..." option would need to be enabled. This caused the source files to be deleted without storing the files in a Zipped folder.
<b>1252</b>	Fixed an issue where using <b>File Compression</b> with the "Open Files - Exclude open files (allow read access to source file during transfer)" setting left blank files on the target and did not log any failures.

### Exclusions

ID	DESCRIPTION
<b>1159</b>	Fixed an issue where excluding files less than or greater than x bytes would not be accurate after a certain value.

### Trigger Files

ID	DESCRIPTION
<b>1216</b>	Resolved an issue where the <b>/PTE</b> (Sync Trigger Files at the end of Scan) command line argument would break the normal <b>Trigger File</b> behaviour. Under normal circumstances, deleting a trigger file would cause a trigger. When using the <b>/PTE</b> option in conjunction with trigger files, this behaviour was broken and would throw the following error: "Trigger file monitoring is enabled for Job Name: <i>JobName</i> (Source trigger file does not exist!)"
<b>1217</b>	Fixed an issue that caused some <b>Trigger Files</b> to be created with the Hidden (H) and/or System (S) attributes enabled. The fix will no longer use these attributes when creating Trigger Files.
<b>1231</b>	Resolved an issue that would occasionally report a "Source and Target paths cannot

	be the same" message at the start of the Profiler when <b>Trigger Files</b> were enabled.
<b>1232</b>	Fixed an issue where <b>Trigger Files</b> were not excluded by default if they resided inside the source/target folders. The /PTE option will now only update the trigger files at the end of successful scans and will always exclude the trigger files during the scan (if applicable).

## Reporting

ID	DESCRIPTION
<b>849</b>	Better reporting when PeerSync fails to rename a folder. For example, in cases where the target folder is being browsed or has a file opened.
<b>1255</b>	"Elapsed Time" reported as part of the "Finished Processing Job Scan" line entry at the end of a scan would be incorrect if scan was longer than over 24 hours. The count would be reset to 0 every 24 hours (i.e. 49:12:34 would display 1:12:34).
<b>1259</b>	Fixed an issue where the Sender address in a PeerSync Email message would not contain the domain (i.e. <u>sender@domain.com</u> would be received as <u>sender@</u> ).
<b>1269</b>	Improved all logging to show appropriate Windows error messages and show the correct root folder for Enhanced Scan Jobs.
<b>1273</b>	Resolved an issue where PeerSync reported excluded files with a "sub-folder of item" as the note. Will now accurately log "Exclude File Item" or "Exclude Folders Item" as the note.
<b>1274</b>	Fixed reporting issues where PeerSync logged invalid information for excluded files/folders: <ol style="list-style-type: none"> <li>1. Real-time deleted files/folders displayed an old date and 0 size</li> <li>2. Folder adds displayed blank dates/times during real-time</li> <li>3. Files were excluded with "sub-folder of item" as the note</li> </ol>
<b>1278</b>	Resolved a reporting issue that occurred when using the Enhanced Scanning option and excluding sub-folders. The exclusions were sometimes reported multiple times during scans.
<b>1284</b>	Fixed an issue where the "Checked" counter in Email reports was off by the number of deletions that occurred during a scan.
<b>1287</b>	Resolved an issue where Admin and/or Email reports would sporadically fail when doing aggressive reporting and/or when a large amount of messages needed to be reported.

## PeerLock

ID	DESCRIPTION
<b>1268</b>	<b>NEW!</b> Added support for the following Profile specific variables to be converted before being used to create Jobs in PeerLock:

	%JobName%
	%FilterName%
	%ProfileName%
	%JobName%

## Miscellaneous

ID	DESCRIPTION
<b>1002</b>	Resolved an issue where the Profiler would report INVALID SELECTION when specifying a valid <b>Variable Data Import</b> path such as <<#ImportFile.txt[Sec1]App#>> where the file and content would be valid.
<b>1235</b>	Fixed an issue where the /AA (Add Job to Profile) argument was not working properly when creating Jobs via a command line. Improved the overall ease and default functionality of creating new Jobs via the command line.
<b>1272</b>	Resolved an issue where <b>ACL</b> changes are triggering real-time events when no Jobs have the "Transfer NT security descriptions (ACLs)" option enabled.  Notes:  For previous version a workaround is to disable ACL real-time detection by using 1. /LLD via the Global ACL Options To revert back to the previous real-time detection in this scenario you can use the 2. /LLA argument
<b>1248</b>	Fixed an issue where PeerSync would report the following failure in the PSError log file:  EAccessViolation - Access violation at address 0040647C in module 'PeerSync.exe'. Read of address 00000061 (FunctionsA LookupStatusMsg - Building Source Offset List   MsgNum = 1   MsgVal = 101)
<b>1249</b>	Fixed an issue that caused real-time events and retries to no longer work and PeerSync would use a lot of CPU. As a result PeerSync would report the following failure in the PSError log file:  EInvalidPointer - Invalid pointer operation (TRTWatchThread.RetryTimerTimerThd1)