

# Change History for Data Mirror

## 2020

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### 2020.11.0917

- Upgraded .Net Framework from 3.5 to 4.0

### 2020.10.2815 Sage 50 2021.1

- Added support for new Pay Types table. When you add or edit pay types on the Payroll Settings form Pay Types, they go in this table. *This only affects Payroll related transactions.*
- The install folder has been changed to AppData\Roaming\Multiware\DataMirrorForPT to accommodate Microsoft new security restrictions.
- The .Net Framework has been upgraded to 4.0
- The SQL instance handler has been enhanced to display available SQL instances if the DefaultMirrorData.xml file data source can't be located.

## 2019

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### 2019.12.2714

- LastSavedAt in Vendor table suddenly had a dash added. Dashed removed.

### 2019.10.2915 Sage 50 2020.1

- New fields (7) added to **Employee** table
  - State Dependents, Local Dependents, Fed Use Higher WH, Fed Dependent Amount, Fed Other Income Amount, Fed Deduction Amount and Based On Tax Date (see [Sage 50 2020.1 Update Notes.pdf](#) for details)

### 2019.08.2713

- Set Ignore Duplicate Keys in Line Item sub-tables. In all cases the tables are updated from a sequential read of indexed Sage 50 tables so a duplicate primary key is not possible. To override this SQL Server artifact, we set **IGNORE\_DUP\_KEY** on during a full read of a table then off after the complete read. ([LineItemAttributes](#), [LineItemComponents](#), [LineItemHistory](#), [LineItemPriceLevels](#))

### 2019.07.2115

- The following changes are SIGNIFICANT. Older versions of the Data Mirror will not poll Sage 50 2020 correctly. **!!!DO NOT USE VERSIONS OF DATA MIRROR PRIOR TO 2019.07.2115 WITH SAGE 50 2020!!!**
- This version of the Data Mirror will work correctly with Sage 50 2019 or earlier.
- The following tables have changed fields:
  - Addresses: Address fields are now 50 characters
  - Chart of Accounts: Last Deposit Ticket field is now 20 characters
  - Employees:
    - § **New Fields:**
      - Special Allowances 3-5
      - Extra Special 3-5
    - § Address fields are now 50 characters
    - § SSN field is now 24 characters & **encrypted**
    - § Direct Deposit
      - Account fields are now 48 characters
      - Routing Numbers fields are now 24 characters
  - Jobs: Address fields are now 50 characters
  - Journal Header:
    - § Address fields are now 50 characters
    - § Account fields are now 48 characters
    - § Routing Number fields are now 24 characters
    - § Deposit Ticket ID field is now 20 characters
  - Line Items: Category (Item Type) field is now 20 characters

- Vendors: **New** Notes field 255 characters

### 2019.02.1910

- Purge audit trail will not be done if Audit Trail Read-All option is false.
- Adjusted the Audit Trail Read-All. When true, reads all audit trail records into SQL table. When false, reads only last 3 months of records into SQL table.

## 2018

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### 2018.11.2919

- Maintenance release: specifically focused on improving error message content & format.

### 2018.07.2520

- “No window name” handler improvements #1: Fixes a problem when no audit trail window name is provided by Sage 50. *Rarely* Sage 50 puts an audit record in with no window name with one exception: log off is a frequent audit record with no window name. “Log off” is skipped now instead of triggering the “no window name” handler. This reduces unnecessary refreshing and improves performance. (This will impact everyone)
- “No window name” handler improvements #2: The tables that the “no window name” handler refreshes were reduced to NOT include tables refreshed on the file-timestamp check done on a timer. (This will rarely impact anyone)

### 2018.06.2815

- The **Audit Trail, Event Log & Inventory Cost** tables are updated differently now.
  - The Audit Trail goes back **3 months**.
  - The **Event Log** table, if not cleared first, refreshes back **4 months**. If cleared first, all Event Log records are loaded. Records with either event & completion dates  $\geq$  4 months old are refreshed for Read All tables if Clear Peachtree Data is not done first.
  - The **Inventory Cost** table, if not cleared first, refreshes back **2 months**. If cleared first, all Inventory Cost records are loaded. Records with entry dates  $\geq$  2 months old are refreshed for Read All tables if Clear Peachtree Data is not done first.
  - So you have a choice. You can Clear Peachtree Data first & completely reload Event Log & Inventory Cost tables every time. Or skip the Clear Peachtree Data & only refresh “recent” records.
  - The performance improvement is significant.

### 2018.06.0419

- Primary Key violations have occurred during a full read of Sage 50 data. In all cases the tables are updated from a sequential read of indexed Sage 50 tables so a duplicate primary key is not possible. To override this SQL Server artifact, we set **IGNORE\_DUP\_KEY** on during a full read of a table then off after the complete read.
  - Tables affected: Addresses, Chart of Accounts, Customers, Event Log, Inventory Cost, Line Items, Journals, Vendors and Work Ticket.

## 2017

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### 2017.07.1814

- Updated **Contacts** table to include time stamp field added with Sage 50 2018.
- Add Last Update to all Readers. 2017.04.22

### 2017.04.1820 >>> also see 2017.04.0518

- Updated **Line Items & Vendors** tables to include time stamp field added with Sage 50 2017.2.
- Added Company Name & Folder to DefaultMirrorData.xml.
  - Allows setting/changing company in DefaultMirrorData.xml
  - May be left blank.
- Added Attachment & Budget tables to DataToMirror table watch list.

### 2017.04.0518

- Added a new start up parameter A to iterate new entries in the Audit Trail.

- New: Use A X to process all audit trail entries since last DM run then close the Data Mirror. The [transaction log] table will list the changes since the last DM run.
- Modified: Use S to process all audit trail entries since last DM run then start mirroring.
- Performance improvement for Customer add/changes
  - Addresses are refreshed by Customer ID (replaces full refresh of Address table)
  - Contacts are refreshed by Customer ID (replaces full refresh of Contacts table) (One new stored procedure: GetCostByIDX)
  - Improves performance for BIG Address and/or BIG Contacts tables.
- Performance improvement for Vendor add/changes
  - Addresses are refreshed by Vendor ID (replaces full refresh of Address table)
  - Improves performance for BIG Address tables.
- Database Change: All **char field types** have been changed to **varchar field types**.
  - This corrects the strings padded with spaces to the length of the char field.
  - This also reduces the size of the database by 30+ percent. (All those spaces used for padding required 30+ percent more disk space).
  - **REQUIRED:** You MUST delete the Data Mirror database & allow the Data Mirror to re-assemble a new version with the corrected field type. On my computer, the DM database (2 files DataMirrorForPT.mdf & DataMirrorForPT\_log.ldf) is in this folder: C:\Program Files\Microsoft SQL Server\MSSQL10\_50.SQLEXPRESS\MSSQL\DATA. Delete both files; the DM will rebuild them.
    - **IMPORTANT!** If you put your own **custom SQL objects** in the DataMirrorForPT database then you must **migrate** those to the new database. This can be done by scripting your custom objects (**before** deleting DataMirrorForPT) the running those scripts in the new database.
  - **REQUIRED:** You MUST do a Read All before starting the mirror

2017.03.2114

- ADDRESSES TECHICAL MAINTENANCE ISSUES
  - Occurrence of file “~PVSW~.Loc” in the Mirrored File folder requires a manual delete. Added a message requesting “manual delete” if present when changing Sage 50 companies.
  - Initial loading of the [OptionalData] table was missing the “Start Date” for Journals.
  - When Mirrored Files were used, supporting tables for Projects were not being copied.
  - EventLog inserts were triggering “duplicate key” violations. Changed to a “Warning” instead of an “Error” since it is both transient & does not appear to cause a problem.

2017.02.2114

- ID fields were used for lookup. When ID fields changed, caused an error. Changed to use indices.
  - Inventory Items

## 2016

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2016.12.2816

- Added support for “GL Import”

2016.10.2517

- Added optional **start date** for journal exports to supplement start period. Start period 0 gets ALL journal records from the very 1<sup>st</sup> entry. Use **start date** to limit the historical records.
- Added **C & X** as startup arguments: **C** applies changes (be sure you understand apply changes before using it in startup); **X** exits the application (after a read all or apply changes).

2016.10.1614

- ID fields were used for lookup. When ID fields changed, caused an error. Changed to use indices.
  - Cost Codes, Customers, Employees, Jobs, Phases & Vendors
- Also fixed the logon error reported on Sage 50 logon.

2016.09.2110

- Update Data Mirror to Sage 50 2017

2016.09.0515

- Fixed thread-memory leak. Caused runtime “out-of-memory” runtime at 57K open iterations.

2016.08.30 5PM

- Performance Enhancements:
  - MW Security New instantiation enhancements
  - Enhanced Btrieve error handling

2016.08.02 1PM

- Added Change Orders & Change Orders Details
- Changed the Mirroring to skip file unchecked in the Data-to-Mirror selections.

2016.07.01

- Added better handling of exit from Line Items read when there are zero records.
- Added 2<sup>nd</sup> transaction journal note-only for Journals that error out on EOF with no records (rare).

2016.04.25

- 26 connection string errors corrected. These mostly involved DELETIONS but also include a few SELECT procedures. Symptoms: “A network-related or instance-specific error occurred while establishing a connection to SQL Server. The server was not found or was not accessible. Verify that the instance name is correct and that SQL Server is configured to allow remote connections. (provider: SQL Network Interfaces, error: 26 - Error Locating Server/Instance Specified)”

## 2015

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2015.07.13 1PM

- Journal Header: 2 new fields added for **Sage 50 2016** (CCRelatedTrx & CC\_VANReference) (Sage has not documented the functionality of the new fields. We suspect they are related to new credit card capabilities.)

2015.07.0113

- BOM Revision handler revised.

2015.06.1010

- BOM handler enhanced to include assembly changes PRIOR to actual use in a transaction.

## 2014

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2014.11.1513

- No functionality changes. Added MW security features.

2014.12.1818

- Added Job Estimates table & mirroring
- Added better handling of SQL Object additions (tables, views & sp's)

2014.12.2617

- Updated certificate

## 2013

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1.36.30226 : 2013.02.26

- Added support for Sage 2014 Beta
  - New Customer, Vendor, JrnlHdr, Default Customer, Default Vendor fields
  - New table: PaymentMethods
- Mapped JobIndex for Tickets table

1.36.30511: 2013.05.11

- Corrected default tables: GL Accounts, Price Levels & Ship Method

1.37.30520: 2013.05.20

- Corrected Vendor table: UseStandardTerms & UsePaymentDefaults

1.37.05.2211

- After changing data to mirror, the dataset AND the table are updated so close/re-open DataMirror is not needed to see only the newly selected tables to mirror.
- now comes from the VS project settings rather than a variable w/i the application. Includes month, day & hour of release: 1.37.05.2211 means 5/22 11AM
- Corrected some Payment Methods table errors for newly created SQL databases & Mirrored Data setting

1.37.06.2014

- Reduced 'Apply Changes' to last 30 days (SQL Objects: /aaSp\_GetJrnIHdrByJID\_nDate & /aaSp\_GetPeriod)

1.37.06.2715

- Repaired InventoryCost (RecordCode was returning a NULL for individual Item updates. Just re-configured the InventoryCost table within the Ds.)

20.13.12.1517

- Sage 50 change: "Receipts" form title changed to "Receive Money"

20.13.12.2316

- oCustomers.LastSaveAt returning a dash in the middle of the date stamp. Removed "-"

20.13.12.2321

- Tax Codes: Added freight tax Boolean to tax codes table

## Older Versions

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0.17 Original beta release.

0.18

- 1. Corrected problem with report history being incorrect.
- 2. Expanded Line Item History to include Costs, UnitsReceived, AdjustmentUnits, AssemblyUnits.
- 3. Added table to SQL database.
- 4. In DisplayMirroredData application error lines in log display are now red.
- 5. In DisplayMirroredData application clicking on a line will now show full message.

0.19 : 10 Nov 09

Fixed problem that was causing failure the second time a connection to library was made.

0.20 : 23 Nov 09

Corrected some problems with fields in EventLog.

0.21 : 10 Dec 09

- 1. Added ability to specify Sql instance name on the form for selecting an instance to use.
- 2. Now remembers DataSource and InitialCatalog and uses them as default values next time the application is run.
- 3. Added a second try at copying a file to the mirror directory if the first try fails.
- 4. Application now updates the Sql database tables with any new fields when an updated of the application is run. (0.21 adds 7 new fields for Peachtree 2010 to the CompanyInformation form.)

0.22 : 27 Dec 09

Corrected problem in 2005 with Date datatype error message.

0.23 : 28 Dec 09

Corrected problem where data mirroring was not taking place after copy of file to mirror.

0.24 : 5 Jan 10

- 1. Corrected problem where Vendor.ShipmentAddrType was not getting loaded into Sql database.
- 2. Modify views by changing inner joins to outer joins.
- 3. Add views for Quotes journal.
- 4. Corrected problem with JrnlRow.TaxCode displaying special character. This also corrects the same problem in the journal views with the SalesTaxAuthority field.
- 5. Code added to handle timeouts when clearing tables.
- 6. Code added to handle out of memory problem when reading JrnlRow.

0.25 : 6 Jan 10

- 1. Corrected 'date' problem in JrnlRow.
- 2. Turned off saving of connection string data to XML file.

0.26 : 7 Jan 10

- 1. Corrected 'date' problem in JobData and hopefully everywhere else.

0.27 : 8 Jan 10

- 1. Changed returned value of Company.eTimeIndex so that it now returns a string containing the ascii value of the first character.
- 2. Fixed problem where JrnlHdr would not read if there were no GJ transactions.
- 3. Fixed problem where stored procedure dbo.GetJrnlHdrNRecords was not getting added to existing databases.

0.28 : 11 Jan 10

Special test version

0.29 : 15 Jan 10

- 1. Corrected SelectCompany return value when company is selected before .Connect.
- 2. Fixed problem in stored procedure "dbo.GetJrnlHdrNRecords".
- 3. Fixed problem in view "dbo.Cash Receipt Journal Detail".

0.30 : 25 Jan 10

- 1. Corrected views for Purchase Journal to show just records for that journal.
- 2. Built application to run correctly on 64-bit system.

0.31 : 26 Jan 10

- 1. Correct problem in finding Sql Server default location.
- 2. Added strong name signing of the library.

0.33 : 10 Feb 10

- 1. Added support for Peachtree 2011.
- 2. Corrected problem where clicking Read Peachtree Data button was causing all data to be read rather than just data selected to be mirrored.

0.34 : 7 Mar 10

- 1. Corrected problem with Employee.IsEmployee property.

0.35 : 23 Mar 10

- 1. There were several places where an exception was being thrown when a Btrieve error occurred, which could crash the data display program. These exceptions were all replaced by error messages to the display log.

0.36 : 26 Mar 10

- 1. Modified JrnlHdr.ReturnAuthorization and EventLog.Note so they don't return strings longer than the Sql table can hold.

0.37 : 8 Apr 10

- 1. Beefed up messages when Sql instance could not be found.

0.38 : 28 Apr 10

- 1. When application was in mirroring mode making changes to a customer or vendor, the Activity Log said the records were updated in Sql, but they were not. This problem has been corrected.
- 2. Added a command line switch "read". When this switch is added to the command line the application will read all data when it starts up.

0.39 : 5 May 10

- 1. Minor expansion of error message that can occur reading vendors.

0.40 : 17 May 10

- 1. Modified Display Mirrored Data application to use configuration data in the file DefaultMirrorData.xml. This allows the Sql DataSource, InitialCatalog, Username and Password to be specified before running the application.

0.41 : 24 May 10

- 1. Corrected date problem for Vendors and BOM History that occurred for Sql Server 2005.

0.42 : 25 May 10

- 1. Corrected problem mirroring Vendor Credit Memos.
- 2. Now runs correctly on Windows 7 and 64-bit.

0.43 : 1 Jun 10

- 1. Include DefaultMirrorData.xml in installation kit.

0.44 : 6 Jun 10

- 1. Correct problem reading JrnlRow.CcStoredAcctRef.
- 2. Correct error code returned when file open failed.
- 3. Bypass error 51 message when file has not been initialized yet.
- 4. Don't generate error in Select Company if Company.dat can't be opened.

0.45 : 20 Aug 10

- 1. Corrected problem with error reading large number of customer records.

0.46 : 16 Jan 11

1. Corrected problem of Default Inventory Data not showing correctly.

0.47 : 27 Jun 11

- 1. Added support for PT 2012.
- 2. Modified order of fields in tables Employees, JobData, JrnlHdr, JrnlRow, Lineltems, TicketRegister

1.11 : 30 Jun 11

- 1. Fixed problem with TicketRegister.

1.12 : 18 Jul 11

- 1. Fixed problem that generated an bulkcopy error message while reading JrnlRow.

1.13

- 1. Added detection of Imports of Jobs, Phases and Costs.
- 2. Corrected table "LookupBillingStatus"

1.14

- 1. Fixed problem with attachments.

1.15 : 23 Aug 11

- 1. Fix JrnlHdr.CloseOrder.

1.16 : 19 Sep 11

- 1. Correct problem with updating Audit Trail data so that journal records were not mirrored.

1.17 : 16 Jan 12

- 1. Fix problem with EventLog LineNumber - change from 16-bit to 32-bit.
- 2. Fix problem with Lineltem error caused by not being set before reading data

1.18 : 17 Jan 12

- 1. Correct problem with Sales Order Detail not showing quantity in 2012 + added QuantityOrdered.

1.19 : 1 Feb 12

- 1. Added support for Peachtree 2013.
- 2. Corrected problem with BOM History.
- 3. Corrected problem where data mirroring would sometimes not update data.

1.20 : 21 Feb 12

- 1. Put back sources for DisplayMirroredData, which had been accidentally dropped.
- 2. Added command line switch to DisplayMirroredData to automatically start mirroring on startup.

1.21 : 24 Feb 12

- 1. Fix problem with updating JrnlSNo records during mirroring.
- 2. Add Try/Catch statements to trap some possible exceptions for JrnlSNo and Lineltems.

1.22 : 27 Feb 12

- 1. Corrected problem where changing files to refresh did not stick in some situations.

1.24 : 13 Mar 12

- 1. Corrected problem with Work Ticket Detail where error was generated if components with same item ID.

1.25 : 15 Mar 12

- 1. Corrected problem with Work Ticket Detail when reading single work ticket.

1.26 : 19 Mar 12

- 1. Correct problem with AuditTrail using wrong index during mirroring.

1.27 : 28 Mar 12



1. Removed debugging from 1.26.

1.28 : 25 Apr 12

- 1. Added UserName & Password for SQL Authentication.
- 2. Added user control of some diagnostics.

1.29.1 : 02 May 12

- 1. Changed AuditTrail index to 0 for get\_last
- 2. Changed 2 stored procedures: ClearJrnlHdr & ClearJrnlRow

1.30 : 23 May 12

- 1. Changed 2 stored procedures: ClearJrnlHdr & ClearJrnlRow (Truncate to minimize impact to Transaction Log)
- 2. Fix the Start Period for Journal reads.
- 3. Trimmed Window Name of trailing spaces.
- 4. Added "My Project" folder for DisplayMirroredData source code zip.
- 5. Change 1 view: [Sales Order Journal Header]

1.31 Beta : 26 June 12

- 1. Added Timestamp\_AT to JrnlHdr table (2012.06.04)
- 2. Set SQL recovery model to "Simple" (default is "Simple" & allow "Full" recovery model from Options)
  - No sp, done via code.
- 3. Added update functionality for some Tables. (As opposed to Read All [delete ALL & refresh])
  - Customer table
  - Journal tables
  - Line Item tables (2012.06.19)
- 4. Fix Optional Data: Cosmetics and IncludeJrnlHdrDirectDeposit & IncludeChartHistory Selectors
  - Added 2 new options to SQL table
- 5. After selecting a new Peachtree company, close the Audit Trail & re-open w/ new company file location (2012.06.15)
- 6. Turn off the "[file] modified" transaction log entries -- clutters up the transaction log w/ useless info. (2012.06.20)
- 7. On data mirror re-start, purge audit trail (fix). Keep last records if time stamps exactly match. (2012.06.25)
- 8. Supplement audit trail time stamp check; if duplicate time stamps (multiple audit trail records w/ matching time stamps) check for difference. (2012.06.25)
  - Process if different transaction
  - Skip if transactions match
- 9. If Journal NRecord not found, close Journal objects & try again. Repeats attempt 10 times every 2 seconds. (2012.06.25)
- 10. Add note in transaction log for: Peachtree company change, Peachtree & version# (2012.06.25) Cosmetic changes.

1.32 Beta: 4 July 12

- 1. Added Job Status to the Job Data table (JobData table, new field)
- 2. Added Code, View & Stored Procedure to get audit trail time stamp to supplement the Journal Header time stamp.
- 3. Reworked/retested initialize sql database. Fixed the options table initialization.

1.33 : 14 July 12

- 1. Disable Mirroring during a [Apply Changes Only] 2012.07.06 3:25PM
- 2. Allow disabling [Apply Changes Only] from Options Form 2012.07.06 4:40PM (Added field)
- 3. Re-coded [Apply Changes Only] for more efficient memory use. 2012.07.10
- 4. Allow Journal Selection 2012.07.11 5:35PM (Added DataToMirrorJournals table)
- 5. Added more UIF management of enable/disable [Apply Changes Only] 2012.07.11
- 6. Fixed skipped journal items. 2012.07.14

1.34 : 30-Aug 12

- 1. Rebuild using updated foundation dll

1.34.20912 : 2012.09.12

- Fixed the [Last Mirrored] comparison to the [Last Write] timestamps.
- Skipping transactions because of timetstamp comparison

1.34.20928 : 2012.09.28

- Implemented TRIAL VERSION

1.34.21004 : 2012.10.04

- Updated sql script links in trial edition

1.35.00000 : 2012.10.09

- Added handler for Journal Header DELETES 2012.10.08 (performs Journal refresh)
- Reset the EnableFileMirror default to False in Options table 2012.10.08 (Done in VB)

1.35.21020 : 2012.10.20

- Multiple low level routines modified per VS 2012 Analysis Tool

1.35.21112 : 2012.11.12

-- Updated code signing keys