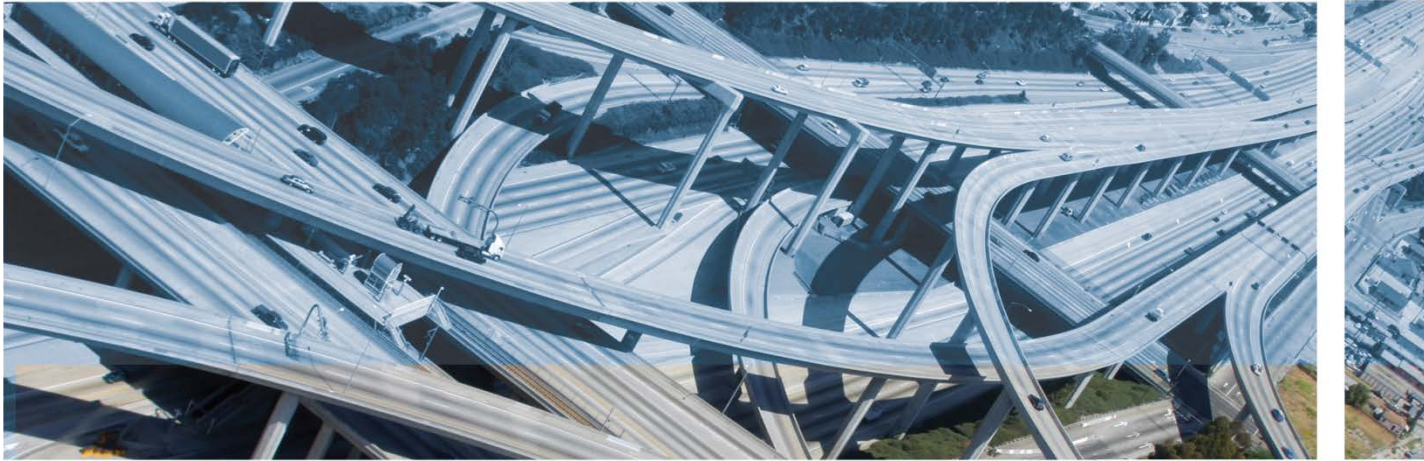# TotalMail
16.10 Release Notes

Legal Information

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TotalMail 16.10 Release Notes

16.10 SP 18

Message queue logging (TML-410)

In previous versions, no historical log was available for the messages load on the system.

Now, there is a diagnostic log of historical load of messages.

Note: As a diagnostic tool, data must be viewed in SQL. No user interface is available.

Tracking child message failures (TML-62)

In previous versions, when a form triggered an additional message, fill views were processed. If the fill views fail, the message was not created. The parent message did not identify which form failed to fill. This made it very difficult to diagnose issues, especially when the triggered form is determined dynamically.

Now, error messages on the parent form identify the child form that failed to fill.

Resolved issues

- **TML-261**
  Resolution of a race condition that could cause the "Unexpected Error: A Task's exception(s) were not observed" or the "PTS – 100306 Inconsistency detected" errors.

- **TML-336/TML-337**
  Omnitracs Hours of Service is allowing duplicate records to be inserted in log_driverLogs. When Omnitracs Hours of Service inserts new driver logs into the table, it inserts the date and time for the log_date column. This is triggering existing bugs in Dispatch applications. Changes in aid of other applications.

- **TML-352**
  SQL authentication for the ORBCOMM service is non-functional.

- **TML-365**
  Due to a plethora of issues, the generic Poller may have to deal with Interface memory leaks beyond its control. To work around this, it will reboot, clearing unused memory after a significant leak is detected.

- **TML-398**
  The username and company fields within Omnitracs Geoservices Settings are reversed within the UI.

- **TML-412**
  On install, the default URI is the text "false" for both the URI and region, and the password is blank. This causes the poller to attempt to connect to an invalid URI and raises an error. The configuration does not allow for a blank password, causing a validation error on exit.

- **TML-419/TML-427**
  When we get a disconnect error on handing over data to the D2Link Host, we error, and lose the packet. It shows in processing on our side, but never shows up in D2Link.

16.10 SP17

PeopleNet Trailer Tethering integration (TML-309)

PeopleNet's Tethered Trailer Tracking solution records events that can enable you to reduce the cost of lost trailers, eliminate manual yard checks, and view trailer detention.

TMW's new PeopleNet Trailer Tethering interface receives each trailer's Hook and Unhook events from PeopleNet. The TotalMail Packetized PeopleNet Interface collects these trailer-tethering events and transforms them into TotalMail messages. The processing for these messages can be customized. For example, a new TotalMail form could notify the driver and dispatcher when an incorrect trailer is tethered to a tractor.

Omintracs HOS provides addition availability increments (TML-397)

Omnitracs HOS now supports multiple new hours of service availability increments. These fields can be referenced by custom views to show availability in different windows within TMW Operations.

Resolved issues

- TML-382
  If the ORBCOMM Service encountered some types unreadable data, it would process any data.

- TML-392
  You can set up driver detention for a stop appointment. The system should use the later of the actualized arrival or earliest appointment time. The system was using the actualized arrival time or the latest appointment time.

- TML-395
  A missing file prevented OHOS from starting.

- TML-21
  Instead of bringing in Detailed Logs throughout the day, OHOS brought them in sporadically.

- TML-273
  A misspelled SQL syntax in OHOS caused an issue for some time zones under Detailed Driver Logs.

- TML-314
  The time needed to process resubmitted messages increased by more than a minute.

  Performance Issue - put in resolved issues

- TML-358
  Omnitracs Fleetwide message was not working.

- TML-372
  OHOS Loads could not correctly process legs that did not have an assigned trailer. It occasionally missed trailers.

- TML-380
   When Omnitracs Trailer Tracks failed, it did not restart automatically.

16.10 SP 16

Omnitracs HOS Integration now supports multiple accounts (TML-303)

TMW's Omnitracs Hours of Service integration synchronizes Hours of Service (HOS) assets between Omnitracs and TMW Systems.

Omnitracs Hours of Service integration can now integrate with multiple instances of Omnitracs.

Omnitracs HOS Integration now supports autogenerated passwords (TML-376)

In previous versions of TotalMail integration with Omnitracs Hours of Service, you could set up the system to sync driver passwords in one of two ways:

- Using the driver's TotalMail password

- Using the driver's dispatch system ID

Neither of these provides a way to define a password without extra Dispatcher interaction that is secure. There also is no way for drivers to change their password once their account is created.

Now, you can set up the system to have a default, auto-generated password based on the driver's name and Social Security Number, as recorded in the driver profile. This password is defined as:

- The first three characters of the driver's last name,

- The first three characters of the driver's first name

- The last two digits of the driver's Social Security Number.

Additionally, you can set up the system to allow the driver to change the password without interference from the integration.

Resolved issues

- TML-19
   Hours expected to gain at Midnight was calculated incorrectly. We now import this data from Omnitracs.

- TML-41
   OHOS loads are sent to Omnitracs multiple times

- TML-41
   An Omnitracs Elogs Load could be sent multiple times

- TML-42
   Driver 1 would not receive Omnitracs Elogs load info when using team drivers

- TML-43
Occasionally Load information would not be sent to the Omnitracs ELogs via OHOS

- TML-275
OHOS integration does not Restart if it crashed due to a network or Omnitracs outage.

- TML-331
Emergency Alerts are occasionally Triggering incorrectly off of TotalMail Check calls(GPS).

- TML-371
When you have a fleet with mixed providences Available Hours for each driver could be incorrect.

16.10 SP 15

Migrating from the PeopleNet InTouch poller to the Packetized poller now automated (TML-227)

The process for migrating from using PeopleNet's InTouch poller to using the Packetized PeopleNet Integration has been automated.

Previously, after migrating from one poller to another, you had to adjust forms manually.

Now, a new PeopleNet migration tool eliminates the need to adjust forms manually.

D2Link image processing (TML-269)

You can now transfer images, such as pictures and signatures, from D2Link and save the image files to a specified location. Locations include:

- Network

- FTP server

- Database

This processing enables TotalMail forms projects to build imaging integration projects.

Resolved issues

- TML-12
SQL Permissions Conflict

- TML-239
Restore TL2K integration.

- TML-262
Record latitude and longitude from Packetized PeopleNet Workflow messages

- TML-277
Improve the Message Balancing Algorithm to prevent slowdowns when there is a large, unified, backlog, as seen with PeopleNet HOS.

- TML-289

  When TotalMail's folder structure was damaged, and then repaired, Message Balancing would still reference the damage.

- TML-302

  Inside of the transfer check call routine, check calls, asset and leg association are often incorrect when there is no appropriate asset, creating false data on the secondary linked resource of the Check call. This caused various problems including some with ETA agent.

- TML-307

  In the Form editor, occasionally deleting a field will prevent the user from adding other fields.

- TML-315

  Backbone Parent reference pipeline non-functional. Causes issues with Omnitracs GeoServices and other integrations.

- TML-320

  Resolved issues with update move option "Same Stop Times". Resolves Subscript out of Range error.

- TML-268/TML-319

  Resolved issues with Omnitracs message splitting where messages could lose formatting or entire lines when messages were very large.

16.10 SP 14

Enhanced AA&D functionality for Omnitracs (PTS 94952)

TotalMail's integration with Omnitracs now gives you automatic arrival and departure (AA&D) functionality. When an arrival or departure takes place at a company in your TMW database, Omnitracs GeoServices logs the company as a geofence landmark.

TotalMail then sends the appropriate message for the stop:

- Arrival
- Departure
- Update arrival
- Update departure

Live performance monitoring (PTS 101024)

Previously, sending messages through TotalMail made it difficult to:

- Detect when a message's delivery was delayed
- Determine the root cause of a delay

Now, TotalMail allows you to track a message's progress through the system. This improved machine-to-machine message monitoring provides the following information for each message:

- Date/time dispatches were requested

- Date/time TotalMail delivered the message

- Average delay in TotalMail

String manipulation views used by TotalMail (PTS 105071)

TotalMail forms make extensive use of custom stored procedures for string formatting. This can reduce performance and increase maintenance time.

Now, enhancements to the string manipulation views remove the need for some custom stored procedures. The result is improved performance and maintenance.

Resolved issues

- 105373
  Rewrite Detention polling logic for performance.

- 101538
  Clean up Blocking and minor UI issues with Message Balancing

- 105017
  Inside the TotalMail Viewer, some messages get weighted as more important than they are and cause other newer, more important messages to not display

- 100384
  Viewer Tray Icon Notifications objects could error, crashing the entire Viewer. We now handle errors and request Icons appropriately

- 105351
  Update Move failing to set Trailers in "Soft" split Trips appropriately

- 105559
  Performance issue with Mobilecomm unit caching

- 105599
  PeopleNet forms scripting does not work.

16.10 SP 13

Resolved issues

- PTS 105354
  PeopleNet poller core misinterprets Pakets that have PeopleNet Link items as invalid, nomatter how much valid data exists. The PeopleNet spefic Form View "PN:Message Send" is also non-Functional.

16.10 SP 12

Resolved issues

- PTS 96784
  Delivery Agent maintenance

- PTS 100382
  TM Form Editor could mismatch fields during a Field copy.

- PTS 102176
  Triggered messages are sent down strange message flow. This flow is destroying BaseMsgSN handling and causing performance issues. Creating new flow for messages.

- PTS 102460
  Text messages or forms sent to PeopleNet as text messages that are over than 2000 characters fail. Message Splitting introduced.

- PTS 103197
  Issues with viewer folders, especially on Windows 10 enabled domains.

- PTS 104619
  Omnitracs now utilizes the speed value returned by check calls

- PTS 104696
  TotalMail will no longer insert records in the event table with a null ord_hdrnumber. This causes update_move_light to error after insertion.

16.10 SP 11

Resolved issues

- PTS 100306
  In PeopleNet, packet tracking caching values would generate an error on the Poller.

- PTS 100391
  In Omnitracs Messaging, a form can handle notes from TMW Operations larger than 8,000 characters.

- PTS 101002
  When migrating from InTouch poller to the new PNET Packetized poller: The new PNet poller understands all the PACOS messages in play that originated from the InTouch poller.

- PTS 101026
  TotalMail will do check if the SQL server version is less than 2008. If it is, the installer will provide an error.

- PTS 102212
  Restored TotalMail Async Messaging Sourcing

- PTS 102262
  In update move, you can use the character { ' } on the following fields:
  Event, Trailer, City, Ref Num, Stp Weight, Step Count, Step Status, Vol. Unit,Reas Late.

- PTS 102943
  In Omnitracs Messaging, a large text message now gets parsed to generate multiple smaller text messages.

- PTS 103991
  In PeopleNet, if a packet tracking Task fails, it will no longer Crash the Application, but log the error

- PTS 104029
  In Omnitracs Messaging, a text message less than 10 characters can be sent

- PTS 79309
  In D2Link, you should be able to send a reply message and text message without getting an error in Viewer.

- PTS 82658
  SQL Scripts D2Link_TMWSuiteSQL and D2Link_TotalMailSQL were added to the TotalMail Forms utilities directory for D2Link.

- PTS 91258
  Corrected the XRSH WindowsService service to provide a more informative message when an invalid password for the user account is inputted.

- PTS 96820
  In Forms, when selecting Update Move flag and using the option 'List selected only' the displayed options are incorrect.

- PTS 96835
  When deselecting Disable Auto-deadhead in Transaction Agent under the Begin Trip properties the ability to select Warn if Missing is available.

- PTS 97768
  In XRS HOS Control Panel, the Defaults button corrects the URLs to have the WS prefix.

- PTS 98018
  In XRS HOS Control Panel, if XRS's TTSLocal and TTS50 are not set, you will be prompted with an error. If Yes, is selected you can import the correct TTS50 & Local.

- PTS 98603
  In Viewer, when selecting mass resubmit it will only re-submit the original message not errored resubmits.

- PTS 99031
  In Omnitracs Workflow, the unit adjusts for the Newfoundland Time Zone.

- PTS 99720
  Corrected performance issues in Viewer when the admin is logged in.

16.10 SP 10

Omnitracs integration

OHOS support for purging records (PTS 98061)

TMW's Omnitracs Hours of Service integration synchronizes Hours of Service (HOS) assets between Omnitracs and TMW Systems. Over time, a substantial number of records are stored in your TMW database.

A new feature allows you to set up your system to purge these Omnitracs asset records from your database. You can specify one of the following:

* Maximum number of days' data to keep

* Maximum number of records to keep

When the number of days/records exceeds the maximum amount, the asset records are purged from the database table.

PeopleNet integration

Enhanced PeopleNet signature capture data storage (PTS 97976)

The PeopleNet messaging system allows drivers and dispatchers to communicate. The TotalMail PeopleNet Interface for Generic Poller stores the electronic signatures and images in these messages in your TMW database.

Previously, media data was stored in the database as binary large object (BLOB) files. However, this could negatively affect database performance.

TotalMail now uses a File Stream column, which will perform these tasks:

* Update

* Query

* Search

* Back up

This helps prevent certain database performance issues.

Resolved issues

* PTS 100502
  Fix OHOS default US or Canadian HOS Rules

* PTS 101107
  Fix TM Configuration regarding duplicate driver names

* PTS 101234
  Fix XRS Outage notifications

- PTS 101544
  Fix regarding naming convention within Omnitracs Poller

- PTS 101890
  Fix Checkcall Transfer Routine to handle larger number of records at once

- PTS 65808
  Change [Invoice]When setting to mimic default TMWSuite setting of CMP

- PTS 71206
  Provide PeopleNet 34 hour reset records

- PTS 81015
  Change Message Destination form view now properly supports drivers.

- PTS 85654
  Fix adding proper information to Help -> About menu

- PTS 95768
  Improve error handling for PeopleNet Geocoding

- PTS 97971
  Fix loading forms menu within Omnitracs Web Poller

- PTS 98342
  Fix CNTRL+T when TotalMail folder structure is corrupt

- PTS 99858
  Fix Form Editor issue when copying fields

16.10 SP 9

PeopleNet integration/D2Link

Signature capturing supported for PeopleNet and D2Link (PTS 96938)

TotalMail now provides standard functionality to capture signatures from PeopleNet tablets and D2Link certified devices.

Omnitracs integration

Omnitracs Extended Sleepy message status supported (PTS 97531)

TotalMail now supports the Omnitracs Extended Sleepy message priority. When a message has this priority, Omnitracs will continue sending it, up to ten times in a 72-hour period.

TotalMail System Administration

Dynamic message balancing available (PTS 98345)

With standard message balancing, delivery agents use batched queues to process messages through transaction agents. That method has been replaced with dynamic message balancing. The Delivery Agent allows you to use multiple Transaction Agents to balance message processing dynamically. The Transaction Agents no longer assign their own queues. Instead, the Delivery Agent organizes messages for the Transaction Agents to process. Based on this organization, the agents process messages in a safe order, one at a time.

You can specify whether each Transaction Agent is inbound only, outbound only, or both

Resolved issues

- PTS 88009
  Adds the ability to purge check calls from trailers using standard tmail_purge_checkcalls routine

- PTS 100319
  Refresh Error

- PTS 100320
  Folder Duplication after upgrade

- PTS 100340
  Refresh error from delivery agents show transaction status window

- PTS 100423
  Outage Notifications

- PTS 100881
  Configuration File had hardcoded values

- PTS 100956
  Adding ability to handle stops with long company names being inserted by TotalMail

- PTS 101212
TMViewer refresh would trigger check agents functionality

- PTS 101291
Repair of Stored Procedure used to troubleshoot

- PTS 101421
TMViewer refresh interval greater that 65 seconds would cause error

16.10 SP 8

Resolved issues

- PTS 82463
SQL Performance Enhancements regarding hidden form fields

- PTS 97139
Omnitracs Workflow failed messages delivered to the correct inbox

- PTS 97317
Core TotalMail enhancements regarding file structure

- PTS 97448
Peoplent Packetized Poller failed message handling

- PTS 97532
Form Editor set forms as current active form bug

- PTS 97697
Core TotalMail enhancements regarding duplicate file structure

- PTS 97998
PeopleNet RouteSync bug fix

- PTS 98136
Fleet Messaging restored

- PTS 98407
Omnitracs RouteSync Empty Movement handling

- PTS 98737
Omnitracs Dynamic Route Sync Large Ordernumber bug fix

- PTS 99201
Incorrect or missing DB Connection setting error handling

- PTS 99715
Omnitracs workflow asset assignment handling

- PTS 99723
Load Assignment SP regarding ord_miscqty bug fix

- PTS 99844
  Email Agent form image bug fix

16.10 SP 7

RouteSync

Dynamic RouteSync (PTS 90589)

TotalMail now supports dynamically generating routes for RouteSync whenever a load is sent to the driver.

SkyBitz integration

Enhanced AA&D messaging for the TMW SkyBitz XFC SmartLink service (PTS 92494)

The TMW SkyBitz XFC SmartLink service captures position information from SkyBitz InSight customer accounts. This information is transferred to various tables in the TMW database.

Previously, if the location type sent by the service did not match a pre-defined list, the system ignored any subsequent arrivals and departures.

Now, the system identifies the arrival/departure stop based on both the company ID and location type.

In addition, a new system setting has been added for the TMW SkyBitz XFC SmartLink service. When enabled, the service automatically adjusts the time received from the SkyBitz InSight application to the local time for the arrival/departure stop being actualized.

ORBCOMM integration

Enhanced AA&D messaging for ORBCOMM (PTS 92492)

The ORBCOMM Trailer Management Service captures trip information from ORBCOMM's StarTrak ReeferTrak application. Now, when a trip is assigned to a carrier, you can set up the service to automatically update and actualize the arrival and departure dates/times on the trip.

Resolved issues

- PTS 71314
  Need a field type that can handle BIGINT validation in PeopleNet

- PTS 71972
  Checkcall Purge Routine tmail_purge_checkcalls Failing

- PTS 92477
  Resolved performance issues with Stored Procedure tmail_get_lgh_number_sp4

- PTS 94454

  Issues with Creation of Certain Positions

- PTS 94518

  Better Error handling for Skybitz Windows Service.

- PTS 95000

  Omnitracs Critical Event Reporting was improperly named

- PTS 95042

  Speed and Heading were being dropped in the Omnitracs direct CheckCall interface

- PTS 95175

  Message handling for units that do not exist in TotalMail

- PTS 96361

  Position Server requires earlier .NET versions of TotalMailCOMCore, TotalMailDataCore, and TotalMailCoreWin

- PTS 96367

  Pay details created by TotalMail causing settlements to crash

- PTS 97507

  Unable to send Multiple RouteSyncs at a Time

- PTS 97509

  Syncing Form Failure using Outbound Poller Splitting

- PTS 98514

  Delivery Agent error causing replicated message processing

16.10 SP 6

Resolved issues

- 95982

  Allow the creation of a transaction agent that only sources messages

- 97787

  Resolve File locking and configuration issues related to Advanced Conflict Checking in update move.

- 97819

  Check that we do get a result set from a Generic Stored Proc, before we interpret it, fixing many views including "Extra Data".

16.10 SP 5

PeopleNet integration

AutoHauler workflow (PTS 85567)

TotalMail now interfaces with PeopleNet's AutoHauler tailored workflow.

Sending zipped binary data to PeopleNet (PTS 83498)

The acronym *blob* stands for *binary large object*. Each blob is a large file that, because of its extreme size, must be handled in a special way. TotalMail now supports using blob files with PeopleNet mobile comm units.

TotalMail System Administration

Updating arrival/departure times for subsequent stops (PTS 79408)

You can now set up the system to update the arrival and departure times of the stops on a trip. When a stop is actualized through TotalMail, the system updates the expected earliest/latest arrival and departure times on later stops. The calculation is based on:

- Travel times

- Hours of operation recorded for the stop company

- Dwell times recorded for a stop company

Resolved issues

- PTS 81354
  Include BlueTree forms

- PTS 82302
  Added check to verify form definitions match when synchronizing form definitions.

- PTS 86729
  Changed Packetized Pnet Poller to record progress during the progression of a packet. This allows, in the case of failure, or forcibly killed, to resume where we left off.

- PTS 88640
  Add https bindings to the XRS Integration

- PTS 89286
  Adds performance enhancements suggested by Mindy.

- PTS 89373
  Validate that the Unknown company is invalid in any stop group inside LoadAssignment

- PTS 90200
  Reintroduce missing Critical Event Reporting enhancements from PTS 65951

- PTS 91940

  A fix in the processing of geocode response messages, to pass lat/long values to TL2K

- PTS 92058

  Modifications to prevent the ORBCOMM service UI from being opened multiple times at the same time.

- PTS 92150

  Address NULL value being set for [LOG] in tmail_enh_log_hours_reply3.sql

- PTS 92304

  Fixed the TotalMail Viewer alert system to display alerts consistently.

- PTS 92404

  Add missing dbmod,PTS68051T.sql, to TL2KSubset folder

- PTS 93176

  Additional update move trailer validation

- PTS 93467

  XRS now consumes tmailXfc's "MsgPress", allowing it to function as a send only poller.

- PTS 93899

  Adjust verify connection of PSXact (Suite Connection) to handle additional issues. Also fix improper use of record-sets in a few locations

- PTS 93947

  Replaced the addition of flags with an Or operation.

- PTS 94581

  Put in the missing GO before the GRANT EXECUTE statement

- PTS 94581

  Updated the error checking to account for null values when determining terminals and groups for vehicles and drivers.

- PTS 94606

  Added with (nolock) to sql select statements; many other performance improvements

- PTS 94725

  Fix position request for Omnitracs outbound only pollers

- PTS 94795

  Performance fixes in FormDefinition

- PTS 94805

  Keep the TeleTrac poller from crashing in a cycle where no messages are received

- PTS 94852

  Bad caching in update Move was keeping subsequent stops from completing orders

- PTS 94923

  Updated OHOS to retrieve Drivers Depots from mpp_driverlogTerminal instead of mpp_terminal.

- PTS 94943

  Updated the code to use the default proxy credentials when connecting to Omnitracs' HOS API. Moreover, it checks for triggers against log_driverlogs on startup.

- PTS 94985

  Updated TM Errors to log missing errors from PeopleNET Poller.

- PTS 95045

  Fixed an issue with TrailerConflictChecking to use Moves for checking instead of Orders.

- PTS 95078

  Adds explicit setting for advanced trailer conflict checking.

- PTS 95154

  Fix initialization of forms when importing a new Form Definition

- PTS 95238

  Updated Delivery and Transaction agents' codes to account for null or unknown values.

- PTS 95260

  Added conditional truck checking instead of updating all trucks which was causing performance issues.

- PTS 95339

  Updated the OHOS UI About window to not use Visual Studio's standard about forms.

- PTS 95401

  Fixed an issue where the Transaction Agent would not understand lateBinding.

- PTS 95507

  Closed an infinite loop that can emerge in email agent on connection errors

- PTS 95651

  Added an execute statement which calls the stored proc update_loghours. This proc updates the driver last log date in the manpowerprofile table for scheduling in the planning worksheet.

- PTS 95706

  Process MCOM Views if "Data By Form Field" is present on that Form

- PTS 95927

  Fixed recordset field's ordinal positions, as they were translated incorrectly

- PTS 95944

  Changed the workaround for DotNet ComException Bug in the Packetized PeopleNet poller. This brings back all existing error/message status handling that had be lost. This addresses the Core issue of being unable to record FormDefinition syncs.

- PTS 95947

  Fixed an issue where OHOS was processing retired drivers from TMWSuite.

- PTS 95952

  Adjusted Generic Poller's About Form to show complete version information.

- PTS 95997
Fixed an issue where the OHOS service would send out loads to Omnitracs that were already sent. I added a caching system which records every load that was sent out to Omnitracs to prevent spamming the Omnitracs Load service

- PTS 96097
Fixed flowcontrol issue in Async Sourcing

- PTS 96199
Add a "NOPOS" Transaction agent command line parameter to stop a particular Transaction agent from processing positions.

- PTS 96307
Updated the OHOS service to fix SQL issues

- PTS 96309
Make insert stop parameters datatypes and data lengths match those of the table

- PTS 96331
In update move when updating depart status, only verify stop number parameter if we have one

- PTS 96366
Fixed an issue where the service would update drivers' mpp_otherid when processing detailed driver logs.

- PTS 96404
Removes changes from PTS 92203.

- PTS 96595
Message balancing adjustments

- PTS 96833
Disabled non-functioning features in the load balancing system

- PTS 96941
Fixed an issue where the Delivery Agent's properties window crashes if a driver is added to the exclusive list.

- PTS 97223
When processing MCOMM views, do not error when there is no ZippedBlob info

- PTS 92534
Modified form syncing in the packeted PNet poller, to fix question numbers and verify fields on sync