

PRECISION v16.0 Release Notes

September 2015

These release notes include information about the latest PRECISION Web UI and PRECISION TMS/QAD Freight Management fixes and changes.

These changes may affect the way that you implement and use PRECISION. Review this document before proceeding with any changes to your installation.

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Overview

PRECISION/QAD TMS Version: 16.0

PRECISION TMS/ QAD Freight Management Version: S39

Release Date: September 2015

The following tables detail the PRECISION/QAD TMS 16.0 release:

Table 1
PRECISION Components

Component	Sub-Components	Current Release	Previous Release
PRECISION	Base Global Trade Management (GTM)	16.0	2012 R01
Web UI	Base Package Exception Management (PEM) Trade Compliance (TC)	5.0	4.9
	Transportation Management System (TMS)	S39	S38
	Win UI	Base	R04
Tools	Highway	4.0	3.3.3
	ePage	2.4.6.0	2.4.4
	PRECISIONView	5.7.0	5.7.0
eCustoms	Germany - ATLAS	R09	R09
	United Kingdom - NES	R03	R03
	United States - AES	R08	R08
Connectors	Oracle JD Edwards	J16	J15
	Oracle E-Business Suite	O10	O10
	Oracle Transportation Management	1.0	1.0

Table 2
QAD TMS Components

Component	Sub-Components	Current Release	Previous Release
QAD TMS	Base Global Trade Management (GTM)	16.0	2012 R01
Web UI	Base Package Exception Management (PEM) Trade Compliance (TC)	5.0	4.9
	Freight Management	S39	S38
	Win UI	Base	R04
Tools	Highway	4.0	3.3.3
	ePage	2.4.6.0	2.4.4
	PRECISIONView	5.7.0	5.7.0
eCustoms	Germany - ATLAS	R09	R09
	United Kingdom - NES	R03	R03
	United States - AES	R09	R08

Related Documentation

Updates to the user and administration documentation will be available later in 2015.

Documentation for previous versions is available at: <http://www.qad.com/documentlibrary>

Web UI 5.0

The current Web UI version is 5.0. It contains a number of enhancements.

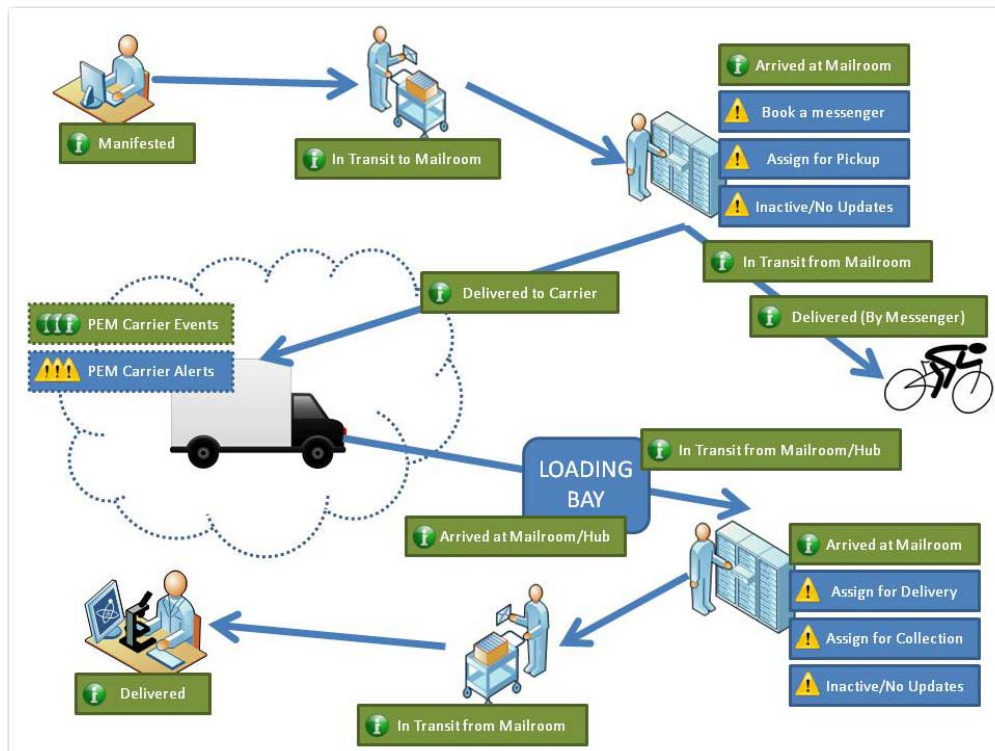
Note For detailed information on these new features, see *PRECISION Web UI 5.0 - Net Change Guide*, which is included with the PRECISION v16.0 release.

Package Exception Management

First Mile/Last Mile Tracking

You can now track shipments from the sender's desk to the recipient's desk.

Fig. 1
First Mile/Last Mile Tracking



This functionality includes new PEM tasks, a new workflow option, and changes to the PEM engine to cater for new events and alerts.

Note Sample shipping plans, shipment types, rules, and desktop shipping templates are available in the data folder: C:\Precision\WebUI\data\precision-xml\5.0\precision-xml\First Mile - Last Mile (OPTIONAL)

PEM Engine

- New alerts:
 - Ready for Pickup from the User's desk
 - Messenger To Be Booked by Mailroom/Messenger Center
 - Ready for Collection by the Recipient from the mailroom
 - Ready for Delivery to the Recipient's desk

After the appropriate action is completed by the user, these alerts no longer appear.

- The following new events can now be captured by PEM:
 - First Mile Manifested
 - First Mile In Transit To Mailroom
 - First Mile Arrival At Mailroom
 - First Mile In Transit From Mailroom
 - First Mile Delivered
 - Last Mile Manifested
 - Last Mile In Transit To Mailroom
 - Last Mile Arrival At Mailroom
 - Last Mile In Transit From Mailroom
 - Last Mile Delivered
- You can associate new shipping plans with PEM transactions:
 - PEM - Mailroom - External Carrier (Outbound)
 - PEM - Mailroom - Ext. Carrier (Outbound) - Ready For Pickup alert
 - PEM - Mailroom - Pouch Child (Outbound)
 - PEM - Mailroom - Pouch Child (Outbound) - Ready For Pickup alert
 - PEM - Mailroom - Pouch Master (Outbound)
 - PEM - Mailroom - Book Messenger (Outbound)
 - PEM - Mailroom - Book Messenger (Outbound) - Ready For Pickup alert
 - PEM - Mailroom - Book Messenger (Outbound) - Outside Pickup
 - PEM - Mailroom - General Plan (Inbound) - Ready For Delivery alert
 - PEM - Mailroom - General Plan (Inbound) - Ready For Collection alert
 - PEM - Mailroom - All Milestones - For reference only

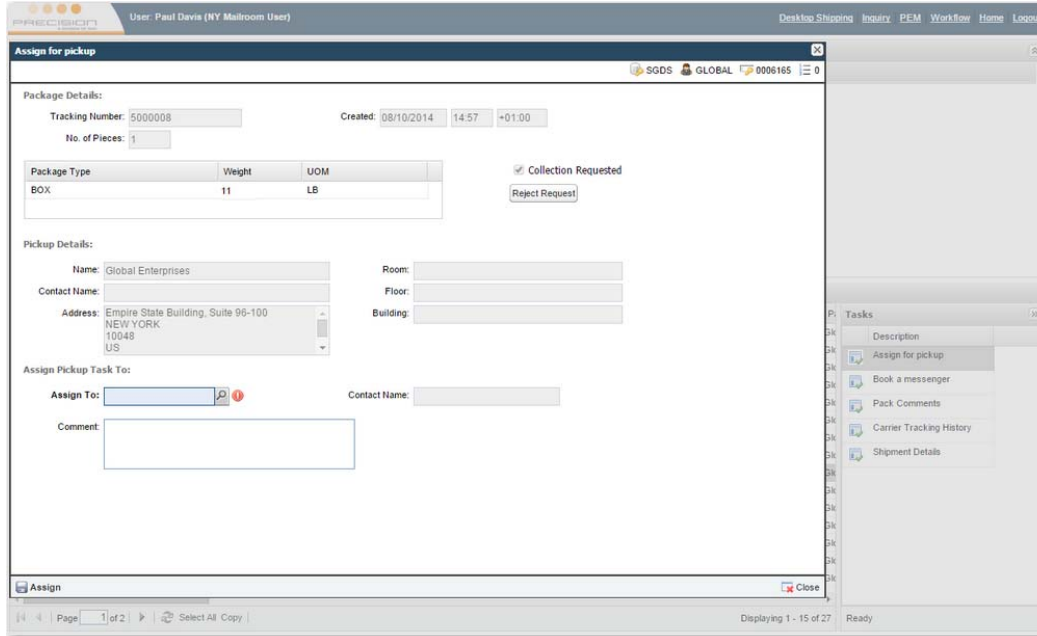
To view master shipping plans, use option MPH.

- Light shipments allow you to track inbound shipments from the mailroom to the recipient's desk. If available, these light shipments contain default information from the associated outbound shipment.
- The PEM engine was modified to ensure that, in cases where carrier and mailroom updates occur out of synch, status updates for a given tracking number are applied to the correct transaction in PRECISION.
- When first mile/last mile setup is enabled, the consolidation (pouching) process is:
 - When a shipment is added to a consolidation, its shipping plan is now closed.
 - When a consolidation is created, a shipping plan is now immediately added to the consolidation.
 - After the shipping plan is added, the plan is immediately evaluated.

PEM Portal

- The new Assign for Pickup task allows a mailroom user to assign a package to a member of the mailroom for collection from, or final delivery to, a user's desk.

Fig. 2
Assign for Pickup Task

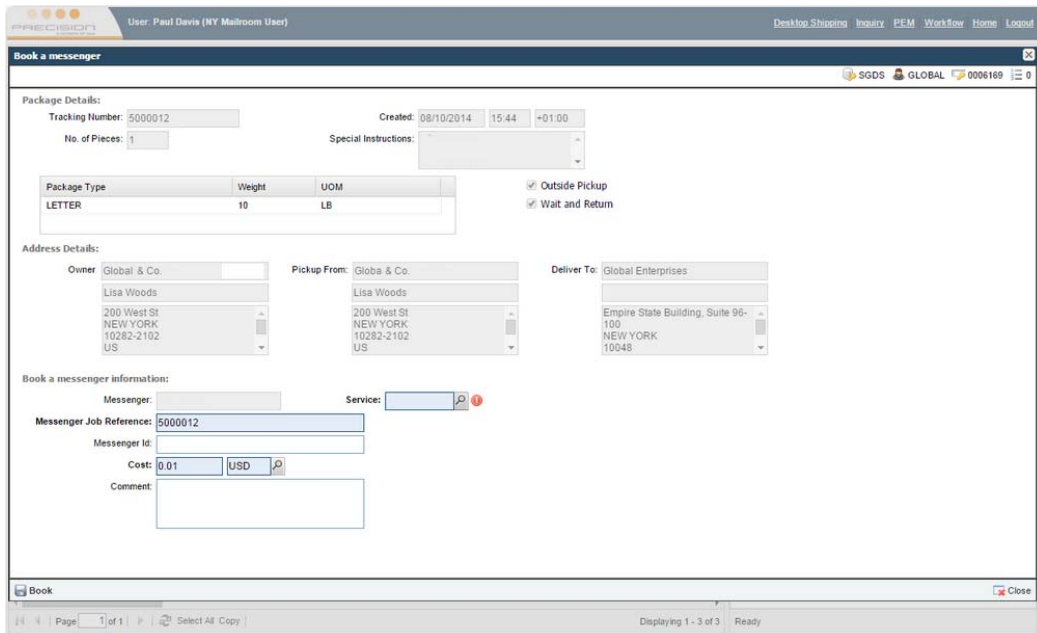


The Assign for pickup task lets you select multiple packages prior to running the task. The task then iterates through the packages, moving to the next package each time you click Assign.

You can also cancel a request to pick up a package and close the Assign alert, so that it no longer appears on the PEM screen.

- The new Book a Messenger task lets a mailroom user book a pickup with a messenger service.

Fig. 3
Book a Messenger Task



- The new Evaluate Plan task lets you evaluate the shipping plan associated with the selected package.
- Fixes:
 - The Master Shipping Alerts tab now lists all alerts that apply to a shipping plan.

- The text '\\\' no longer appears by default in the MPH search fields.
- Any column displayed in the packages grid can now be color coded based on value.

Workflow - Status Scan Option

- The new Status Scan option and associated PEM Status Update task allow you to manually update a shipment's shipping plan with event information. You can use the **FIRST LAST MILE UPDATE EVENTS** system value to configure the events that appear in the PEM Status Update task.

Fig. 4

PEM Status Scan Option and PEM Status Update Task

The fields in the PEM Status Update task depend on the selected event. This task is typically used by mailroom users, and allows you to:

- Add PEM comments as part of an event update.
- E-mail a package recipient about a pending delivery, or prompt the recipient to collect the package. Standard e-mail text can be pulled from application templates that can be defined by administrators.
- Update the packing location of shipments that arrive at the mailroom; the package continues to be visible in PEM under the updated packing location.
- Sign for a package using the Signed by User field when a shipment status is set to Last Mile Delivered. This field is used to update the shipment's shipping plan with a signature of delivery.
- Manually update events that may typically be updated via the PEMCarrierStatusUpdate Web service. It can also be used to update carrier events, when required.
- Batch event updates for certain events through multiple barcode scans; for example, receiving multiple shipments into the mailroom.
- Scan FedEx barcodes so that PEM logic can use the enclosed tracking number in transaction queries.
- A last mile delivery label has been added as a base document. This label can be used for inbound delivery of a package to a recipient's desk. Support for client-side ZPL printing has been included. This allows a user to print the mailroom label on a networked or non-networked ZPL printer.

- The default event location displayed on the PEM Status Update task can be set to the user's session packing location or the place associated with the user's session packing location.

Web Services

- Web Service for Carrier Tracking Status Feeds

This is a new Web service that allows you to push tracking status updates to PEM; for example, you can push tracking statuses from a handheld device to track the movement of packages within a department or building.

- Web Service for Package Status Request

This is a new Web service that allows you to request the current status of one or more packages; for example, you can request the status of all packages that are Ready for Collection, or check the status of a particular package.

- Web Service for Master Data Request

This is a new Web service that allows an external application to request data from a specific PRECISION table. The response includes a list of records. You can use this service to request the master data of different tables and then populate an external application, such as a mobile device, with this data. The external application specifies a message type in the input message, which identifies the criteria applicable to the message. The response returns the name of the field, which can be different than the PRECISION database field name, and the value.

Desktop Shipping

- You can now invoke the PEM evaluation method immediately after the confirmation step. This allows the PEM engine to add the appropriate shipping plan to the shipment and then raise alerts regarding collection or booking, when applicable.
- You can use the user flag fields on the first step of Desktop Shipping, Origin/Destination, to specify messenger and collection shipment details.

Fig. 5
User Flags in the Origin/Destination Step

- You can now configure Desktop Shipping to determine an appropriate shipment type, based on certain shipment fields. You can then use the shipment type to determine the rule and associated shipping plan to apply to the shipment.

Inquiry

The Inquiry page now provides full end-to-end tracking visibility for a shipment. The page presents tracking details for the outbound (desk to mailroom), carrier, and inbound (mailroom to desk) stages. If the shipment was consolidated, then the tracking information for the consolidation is also shown.

Fig. 6
Inquiry

The screenshot shows the 'Inquiry' page for a shipment. It displays tracking information for both inbound and outbound stages. The inbound stage shows a package received at the mailroom, and the outbound stage shows the package available for pickup.

Pack Number	Priority	Pack Type	Tracking Number	Length	Width	Height	Dim UOM	Gross Weight	Weight UOM
1000002232		LETTER	5000012	0.0	0.0	0.0	IN	10.0	LB

Update Event Date	Location	Description	Revised ETA Date	Carrier Scan Description	Notification Date
09-Oct-2014 13:23:11 -04:00	NEW YORK	Last Mile Arrival At Mailroom		Received By Mailroom (Inbound)	09-Oct-2014 14:23:11 -04:00

Comment	Updated By	Update Date	Reason Code
comment	PDAVIS	Thu Oct 09 13:23:26 BST 2014	

Pack Number	Priority	Pack Type	Tracking Number	Length	Width	Height	Dim UOM	Gross Weight	Weight UOM
1000002232		LETTER	5000012	0.0	0.0	0.0	IN	10.0	LB

Update Event Date	Location	Description	Revised ETA Date	Carrier Scan Description	Notification Date
08-Oct-2014 15:44:25 -01:00	NEW YORK	Available (Outbound)			

PEM Configuration

The PEM Configuration page, option PEMCFG, contains a number of improvements:

- On the Enable Packing Locations tab, you can now limit the carriers available for selection to a subset of the list of carriers configured for a location.
- System values used to configure this page are now part of the system value metadata that is used when the Web UI Y3 option is run.
- An issue with the grid titles is now resolved. If a search is performed and no results are returned, then the grid titles correctly reflect this result.
- A number of translation fixes have been made.

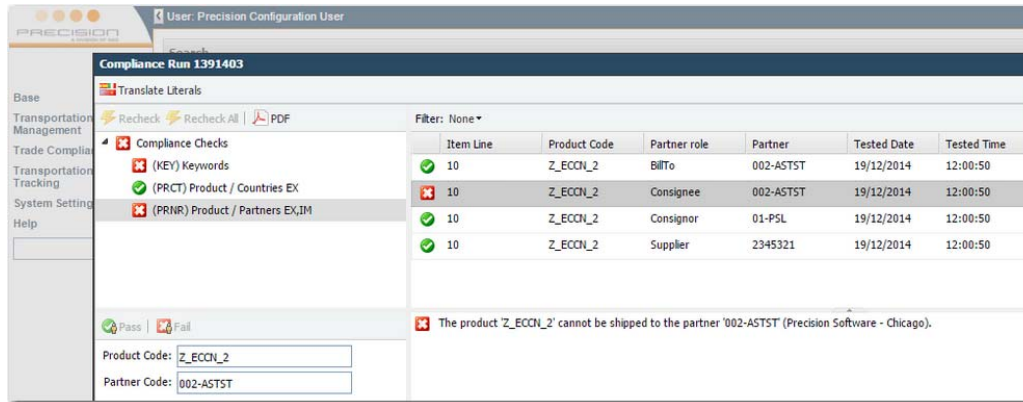
PEM Portal

You can now configure the PEM page so that the transactions shown in the Packages grids are automatically refreshed at regular intervals.

PEM Integration

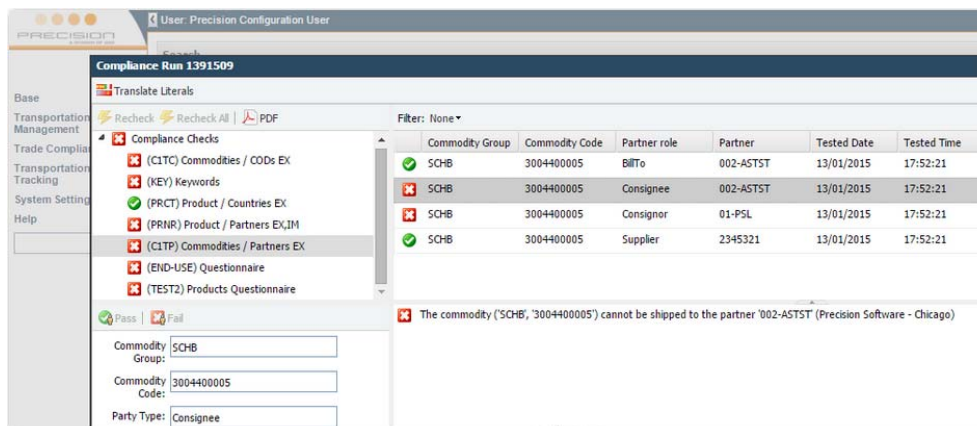
With the new Purolator integration, PEM and Highway can now be configured to pull in status updates for packages shipping with Purolator and to update the shipping plans on the PRECISION transactions.

Fig. 9
Product to Partner Check



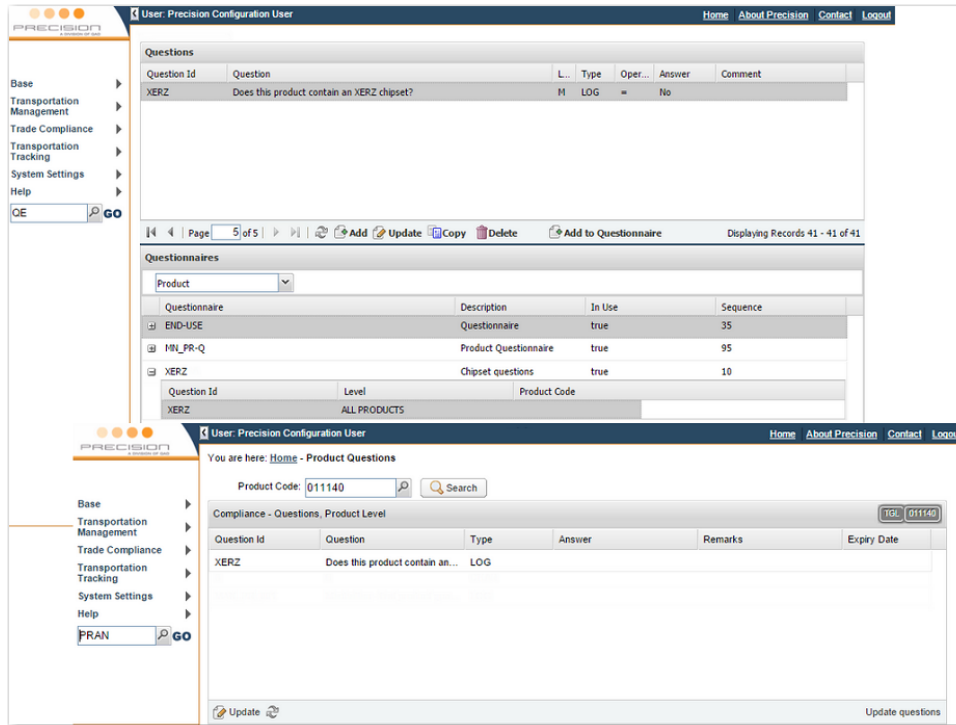
- The new Commodities to Country of Destination (C1TC) check screens the same attributes as the Product to Country of Destination check.
- The new Commodities to Partners (C1TP) check tests whether any of the commodities on the transaction are paired with a specified partner on the transaction. If they are, then the check fails.

Fig. 10
Commodities to Partners Check



- The new ECCN to Countries (EXCT) check tests whether any of the ECCNs on the transaction are paired with a specified country. If they are, then the check fails. This check tests the same countries as the Product to Country of Destination check.
- The new Permitted Products to Countries check examines any products on the transaction that have the inclusion flag set to true. If these products are not on the permitted list for the country of destination, then the check fails. This check tests the same countries as the Product to Country of Destination check.
- You can now screen shipment texts against denied party lists. The shipment text must have the name on the first line and the address on subsequent lines. Specify the shipment texts for screening using the DPL-TEXTS check type in option CK.
- You can now configure a URL that links the data source displayed on the Compliance Results page with an external Web page. The link displays in the Source column of the check results.
- Option QE now allows you to define product, partner, and commodity-level questions. Answering the questions at the master record level is now possible. The compliance engine has been updated to check that the relevant master-level questions have been answered correctly.

Fig. 11
Question Levels



- In the workflow search templates, you can now retrieve the Compliance Status search field value from a saved template.
- Previously, clicking the Clear button cleared the text in the Compliance Status field, but not the related icon. This issue is now resolved.

Transportation Management

Desktop Shipping

- Origin/Destination step: When you click Next and there is a validation error, the Desktop Shipping page reloads. Previously, some data entered did not display after the page reload. This issue is now resolved.
- Origin/Destination step: Previously, when you updated the partner code in the Deliver To field, the associated address fields did not populate with information. This issue is now resolved.
- Rate Shop step: Your administrator can configure the Rate Shop step to display a warning message when you select a service that is not the cheapest service available.
- Rate Shop step: Previously, some Rate Shop results included an ETA time of 24:00. This issue is resolved, and these results now include an ETA time of 23.59.
- Confirmation step: Desktop Shipping collates the shipping documents into one PDF file. Your administrator can now configure PRECISION to insert blank pages on the even page numbers of this PDF document. You can then print the generated PDF to a printer that is configured to duplex print automatically; you do not need to disable duplex printing. This feature prevents a carrier label from appearing on one side of a printed page and a commercial invoice appearing on the other side of the page.

Base

Workflow Maintenance

- You can now maintain workflows in the Web UI. The new WF option allows your administrator to review and update workflows, workflow tasks, and any prerequisite and postrequisite task configuration.

Fig. 12
Workflow Tasks Configuration

The screenshot displays the 'Workflow Tasks Configuration' web interface. It is organized into three main sections:

- Workflow:** A table listing workflows. The visible row is 'WEB-ALL' with Type 'S' and Description 'Workflow (ALL Web UI Tasks)'. Search filters for Workflow Code, Type, and Description are provided.
- Tasks for Workflow WEB-ALL:** A table listing tasks for the selected workflow. The visible rows are:

Sequence	Description	Key ID	Option	Task Progra...	Categories	Required Status	Success Status	Succ.
100	Docs - Document Text IDs	WFTDTI50	WFTDTI	50	Docs,All			
110	Packing - Basic Packing	WFTBPS0	WFTBP	50	Packing,Ot...			
120	Packing - Standard Packing	WFTSPK50	WFTSPK	50	Packing,Ot...		10	
130	Packing - Scan>Pack>Ship	SNPKWF50	SNPKWF	50	Packing,Ot...			
- Pre & Post Requisite for Workflow Tasks 100 [WFTDTI50]:** A table listing prerequisites for task 100. The visible row is:

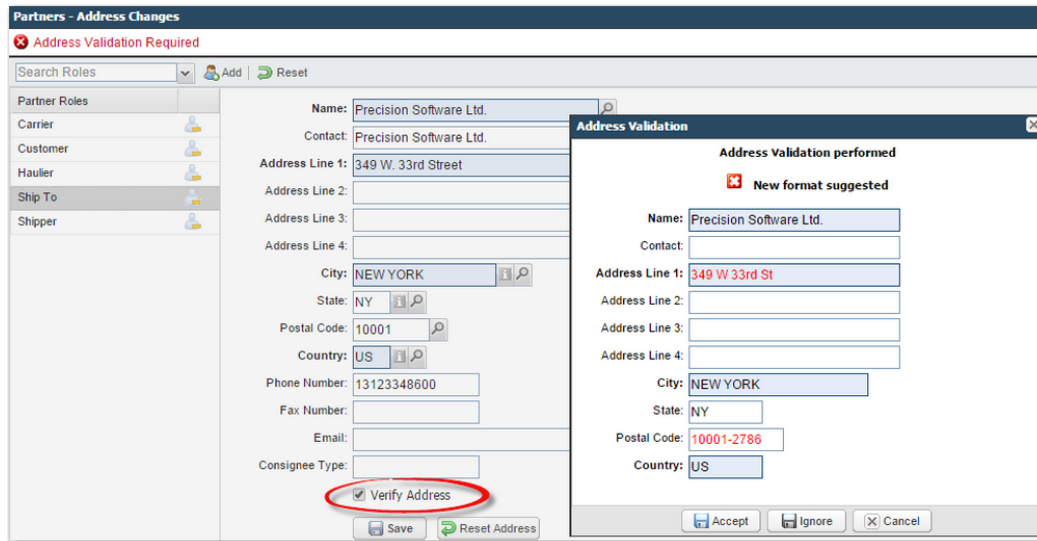
Sequence	Requisite ID	Description	In U
10	WFTMAN50	SPS - Manifest & Rate	true

- A multi-create selection list is available for adding prerequisite and postrequisite tasks to a workflow task.
- The Update Transactions button refreshes the workflow transaction data. This step is necessary when tasks are added to, or removed from, an active workflow.

Address Validation

- You can now request address validation from the Address and Manifest workflow tasks, which provides a similar user experience to that already available in Desktop Shipping.

Fig. 13
Address Validation in the Address Task



- Your administrator can now configure the system to perform address validation only when certain conditions are true.
- Plug-in support for Loqate (www.loqate.com) provides validation feedback on address information. This support is compatible with both Cloud and locally installed Loqate deployment models.
- An issue with the FedEx address verification plug-in is now resolved.
- An issue with the address verification functionality in Desktop Shipping, where the address validation pop-up is shown to a user with no apparent change to the address, is now resolved.

Workflow

- The list of search fields in the Workflow Search area now includes Country of Destination, Country of Despatch, Country of Origin, Place of Delivery, Final Destination, Place of Loading, Origin, and Description.
- The Default and Config buttons now display as icons.
- The Pouching consolidation option now uses the Transaction Type (Z9) details to determine the From transaction type. The To transaction type is no longer restricted to K; it is determined based on your workflow view.
- The Pouching consolidation option has been modified to only list shipments in the Pick Shipments grid that are not yet consolidated.
- INFO and WARN “errors” from Process Shipment requests no longer result in the task showing a failure status.
- Workflow displays the last used search criteria. In cases where the client that you log in with differs from the last used search criteria, the last used criteria is now taken as the session client. This fixes an issue where the client shown on the Workflow page is not the actual session client.
- An issue, where the owner group did not change according to the task configuration when the task (un)successfully completed, is now resolved.

Rule Maintenance

- The Rules and Rulebooks configuration screen added in Web UI 4.10, RULES, has a number of enhancements:

- Additional rule sub-options in the Rules tab:
 - Partners – Trading Internal
 - Partners – Transport Customs Financial
 - Route
 - Product Descriptions
 - Product Prices
 - Rule documents; the Documents button remains in place.
- The Texts sub-option now shows a text description similar to that available in the Windows UI.
- The Active field in the Rules Determinations - Create screen is now selected by default.
- Issues with the maximum length validation of fields on the Rules and Rulesbooks tabs are now resolved.
- An issue with the < Rules button is now resolved.
- An issue with the Start Date field in the Documents and Rules Determinations screen has been resolved.
- Usability issues in the Document multi-create window have been resolved. Now, after you click a plus button, the button is hidden.
- Updated the system values metadata used by option Y3 to include rule values.

General Maintenance

- Enhanced the field search capabilities available on the General Maintenance list pages.
- Resolved issues in the TMS Master Data options. Options now use Ext JS components. The updated options are: PRBM, PPY, AGG, AGO, AGV, AGC, AGT, AGL, AGF, AG1, AL, TA, TATK, ZX, ZXCX, BO, TZ, CJ, CG, GC, TH, THTD, TDTE, TDEX, WC, WL, FC, TC, LE, NM, PB, RT, RTRL, RTRC, RTRS, SE, SESR, ZC, RG, RGRX, PR, PR, PRHZ, BG, and BGDT.
- You can now add a field to the Admin area on the Home page. This feature is useful when the Web UI pages are embedded in the .Net UI, or some other application, and the left side menu area is not available.

Weighing Scale Integration

- Added USB support to the Web UI so that a USB weighing scales can be connected to a client machine using the Web UI in a similar way to that already available for serial port weighing scale devices. USB client files and documentation can be found in: C:\PRECISION\WebUI\webclient\Get Weight and Print Applets
- Tested using DYMO® Postal scale M10 scale.

System Value Maintenance

- The Include Keys? field allows your administrator to control the tags listed in the Tag Search drop-down menu down. By default, system value keys are included in this menu. Tags that group a number of system values appear in bold; system value keys do not appear in bold.

When the page is initially loaded, the tag drop-down menu is automatically expanded and has cursor focus.

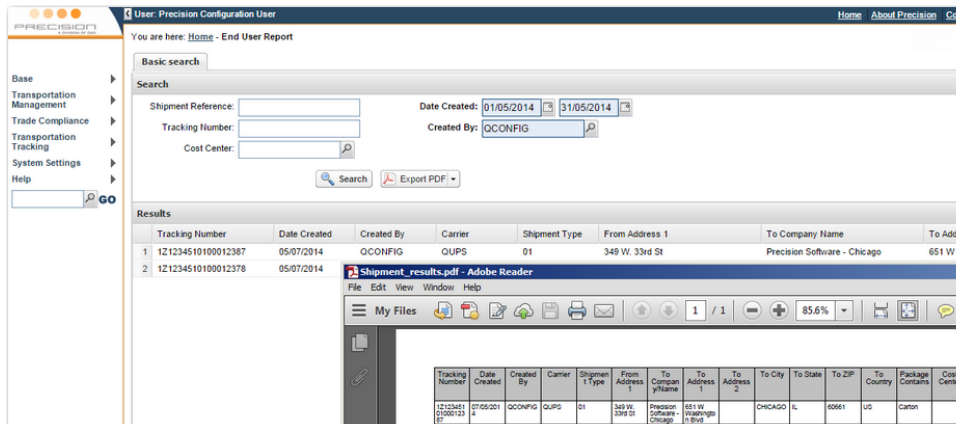
- When you select a tag in the drop-down menu, the grid refreshes automatically; you do not need to click Search.

- The new Cached By column indicates which component will require a cache reset when a change is made to a value.
- Previously, a JavaScript error occurred when the Include Advanced field was not selected for a Rules Engine tag search. This issue is now resolved.

Other Minor Enhancements and Fixes

- A basic end-user Desktop Shipping report option has been added.

Fig. 14
Desktop Shipping End User Report



- The Standard Packing workflow task now allows you to use the Update pack details button to maintain the following pack information:
 - Pack Type
 - Dimensions
 - Additional Reference
 - Total Volume
 - Total Gross Weight
 - Total Net Weight
 - Total Net Net Weight
 - Tare Weight
 - Marks and Numbers 1 - 5

This task now has improved support for shortcut keys:

- F2 to Save
- ESC to close the pop-up window
- F4 to look up a new pack type
- Your administrator can now configure the Login page to display the User ID field in lower or in upper case. Previously, the user data always displayed in upper case, regardless of the Caps Lock keyboard setting.
- The Documents workflow task now shows all documents in the grid, without the need to move through multiple pages. You can now collate all documents that would previously have listed on different pages into a single PDF document. Column sorting is also possible.
- In the Documents workflow task, the multi-create feature now correctly sets the default printer.
- In the Documents workflow task, the Select All grid feature now works as expected.

- In the Manifest workflow task, buttons no longer appear cropped.
- The style used to detail key information on the General Maintenance list panel pages is now more subtle.
- The Show Shipments and Show Errors buttons on the End of Day Manifest page now have icons.
- The Workflow, PEM, Routing Guide, Questionnaire, and End of Day Manifest pages now include blue separator lines.

Web UI 4.10 Patches

Web UI 5.0 includes fixes added in Web UI 4.10 patches.

Scan, Pack and Ship

- An issue, where the error “Unable to find pack with pack number: 0” displayed when trying to add lines into a newly created pack, is resolved.
- A new \$CONTEXT_PACK_BOX_SCANS\$ scanner context has been added.

Workflow

- In the Workflow Search - More Dialog window, searches using the Customs Ref field now work as expected.
- An issue with the loading of the Consolidate Shipments task has been fixed.
- In the Consolidate Shipments task, when shipments picked for consolidation do not have the same consignee partner code, a warning appears. Previously, this check was case-sensitive, and resulted in warnings appearing when partner codes differed in case only. This issue is resolved.
- Previously, in the Consolidate Shipments task, search results based on the Consignee field that extended to multiple pages did not display correctly. This issue is resolved.
- For consolidations, the shipment client is now stored in XMINHD0.INHWSID and XMINDT0.INDWSID.
- The QAD Pull - Black Box Service task now shows errors returned from Black Box calls.
- Fixed an issue with the Route, References and Container task where delivery terms were unexpectedly being assigned a blank value.
- The system value ADDRESS TASK - RATING ROLES now controls which addresses can be changed in the Manifest task window after a shipment is rated.
- An exception is no longer thrown when running the Documents task in read-only mode.
- Previously, when a maintenance window was invoked as a workflow task, an issue with the ability to save could arise. This issue is resolved.
- An issue, where the Shipment Type lookup did not bring up the expected selection list, has been resolved.
- Fixed a PDF print preview issue in the Print task, where only the first document was previewed.
- An issue with deleting a shipment, caused by a workflow task status validation error, is now resolved.

Desktop Shipping

- An ambiguous error when the shipment weight was less than 0.01 Lb has been corrected.
- An issue with the Non-Regulated Product Confirmation pop-up window on the Products step is resolved.

- A character encoding issue, which can occur when navigating back to the Product step from the next step, is resolved.
- The creation of multiple unnecessary partner records for each partner role assigned to the partner no longer occurs.
- An issue, the creation of partner records for each partner role assigned to the partner, is resolved.
- Endicia and OnTrac are now included in the list of carrier logos available.
- In the Origin/Destination step, the Third Party or Collect Account Number maximum field size is now set to 20 characters.
- An error that occurred when using the Mailing List option in the Origin Destination step is now resolved.
- An issue with viewing the compliance step is now resolved.
- An issue with the DTS Plugin window only showing correctly on its first call is now resolved.
- The Promised Date and the Despatch Date can now have the same value.
- An issue with the Place lookup not populating the Port of Exit value is resolved.

End of Day Manifest (SPSEOD)

- The batches bottom toolbar is no longer cropped.
- The LAST DATE FROM system value is now created. Also, client DLTD is used instead of DELT for shipments removed from a batch.
- Your administrator can now give you permission to delete shipments from an EOD batch.
- You can now view the batch errors associated with a given batch.
- There have been updates to the error messages that are displayed when no PDF document is returned as part of creating a new batch.
- Previously, an error occurred when running individual tasks in the Web UI that do not return a PDF attachment; this issue is resolved.

Compliance

- The DPL cache now supports a larger number of entries.
- The History drop-down for ad-hoc results no longer displays.
- Previously, an exception could occur when loading partner matches that were manually failed at an earlier time; this issue is resolved.
- An uppercase/lowercase issue with the Soundex logic is resolved. This fix also provides a slight performance improvement in the matching process.
- XML API support now exists for both the DeniedPartyList and DPL (legacy) check types.
- An issue with %n showing in the matching address detail on the Compliance Result page has been resolved.

Maintenance

- In the Documents Parameters sub-option of Documents, the Parameter value field is now larger.
- In Documents, option DO, the grid list now shows documents with the In use value set to Yes.
- An issue in selection lists, where data containing semicolons caused the prompting logic to fail, has been resolved.
- An issue with setting up a default text for a Text ID record is resolved.

- In Users, option US, there was an issue with incorrect changes to user groups after the User Clients field in User Update was updated. This issue is resolved.

Inquiry (NQ)

- Fixed an issue with the display of the Recall button.

Skins

- You can now add custom carrier logos to the Desktop Shipping Rate Shop step.

Performance

- Issues with ESAPI redirect validator that caused the Web UI to consume a large amount of CPU time have been resolved.
- Fixed issues with the ESAPI redirect validator that can cause the Web UI to hang.

PEM

- The definition of Light Shipment default information for a blank account is now permitted.
- Improvements have been made to the DHL DD PEM integration.

Monitor

- Previously, the FileChanged tests did not fail if the file was not modified in the expected time. This issue is resolved.

Log Output

- Log output no longer shows underscore characters in XML output.

Miscellaneous

- Manually added charges are no longer deleted when you void a shipment.
- Previously, when importing addresses, importing a partner file failed when only one Company Name was specified. This issue is resolved.

Highway

The Highway version released with PRECISION v16.0 is 4.0.0. The Highway database schema has changed in this release. A SQL script is available that will update, in situ, an existing schema.

Database Changes

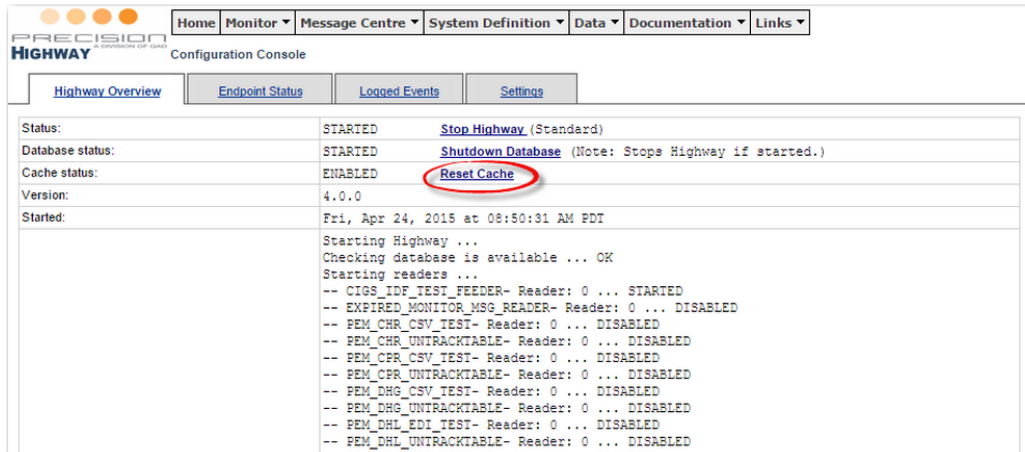
- Multiple Highway instances, each deployed in their own WildFly container, can now use a single database.

A DOMAINID field has been added to each of the Highway database tables. This field is also part of the primary index. Each Highway instance can be configured with a unique domain identifier. This value is used to isolate the data to a particular Highway instance.

- Data exported and imported from the Highway Console is domain independent.
- The Highway Login page details the domain in the Domain field. This information is read only.

- The HW_EVENTLOG table now includes a new THREADID field. This field holds the thread identifier of the thread logging the event. This new field is now part of the primary key, thus helping to ensure record uniqueness and preventing “HW_EVENTLOG record already exists” errors.
- Certain data in the Highway database is cached. It is now possible to clear this data and to reset the cache.

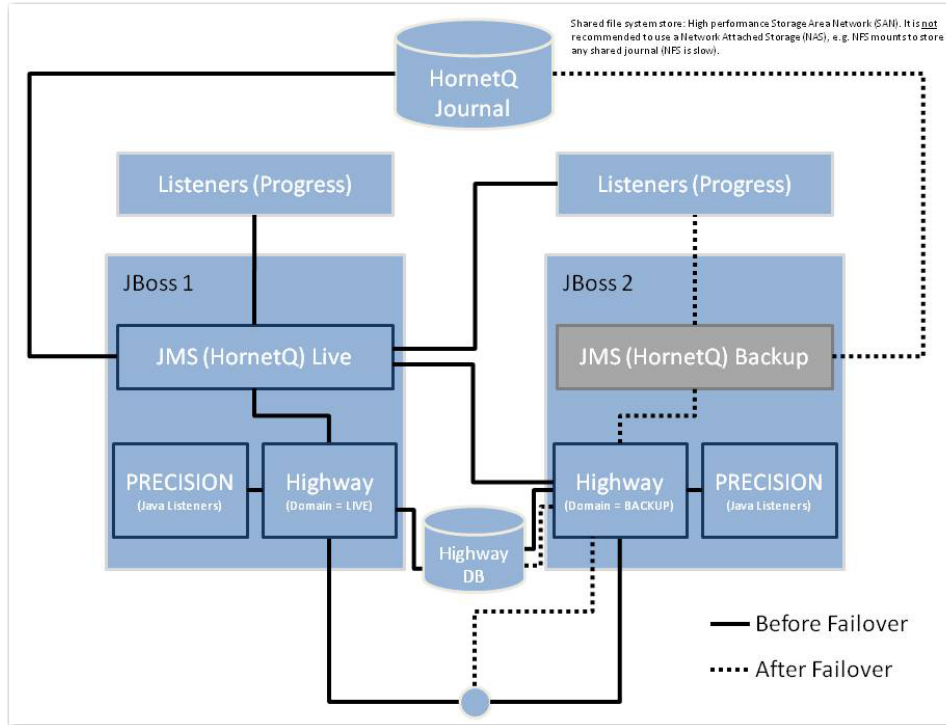
Fig. 15
Reset Cache in Highway



JMS

- The components in Highway that behave as a JMS client (reading, writing, and counting messages) have been modified to allow them to work with a WildFly 8 JMS cluster. With a JMS cluster, only one WildFly node runs HornetQ at a time. Highway can be configured to discover the “live” WildFly node serving out connections to the queues. This is done through a number of new server properties.
- Added Highway support for a Live/Backup JMS high availability configuration. WildFly 8 should be started using `precision-standalone-full-ha.xml` rather than using `precision-standalone-full.xml`. A number of manual steps are required to configure clustering after the Web UI install is complete.

Fig. 16
JMS Clustering



- HornetQ, the underlying JMS component, provides its own mechanism to count messages on a particular queue. The PERSISTENCE_TYPE setting can now accept a new value of HORNETQ. The PERSISTENCE_LOCATION setting is not applicable when the persistence type is set to HORNETQ.

Web Services

The PRECISION Web service definition (WSDL) has been updated to reflect the new functionality available in the Trade Compliance and Transportation Tracking modules. The following URL gives access to the latest WSDL: <http://localhost:8080/highway/ws/precision?wsdl>

- The BatchShipment and BatchShipmentResponse services have been removed from the PRECISION WSDL.
- The PEMPackagesCurrentStatusResponse Web service has changed. The phone Extension field has been extended to a maximum length of 15. The EmployeeAdditionalReferenceId and FaxDetails fields have been added to the partner type.
- Added GetComplianceRequest, which returns ShowComplianceRequest, and GetComplianceResult, which returns ShowComplianceResult.
- ProcessComplianceRequest and ShowComplianceResult now take account of the new checks added to the Web UI compliance engine.

Table 3
PRECISION v16.0 SOAP API Services

consolidateShipments	rateShopShipment
createShipment	reprintShipment
processEOD	shipShipment
processShipment	updateShipment
processShipmentLines	validateShipAddress
queryShipment	voidShipment

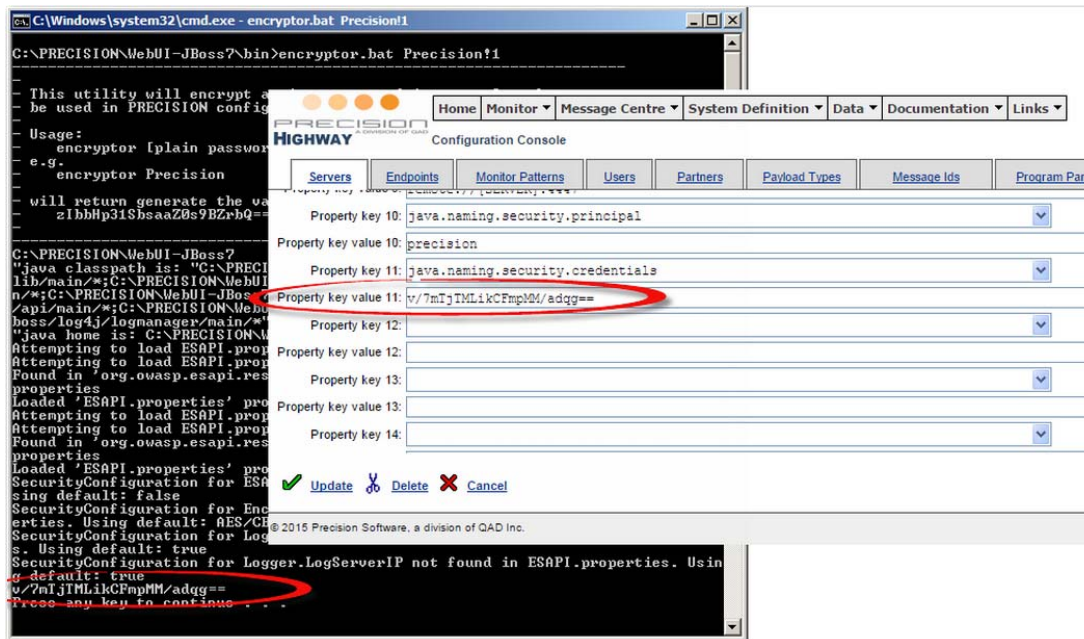
Endpoints

- The FTPS endpoint now supports both implicit and explicit FTPS. Previously, only explicit FTPS was supported. To specify the type of FTPS, set the server property `ftps.type` to `IMPLICIT` or `EXPLICIT`.
- You can now disable the server certificate validation step performed by the FTPS endpoint by clearing the server property `server.cert`.

Security Updates

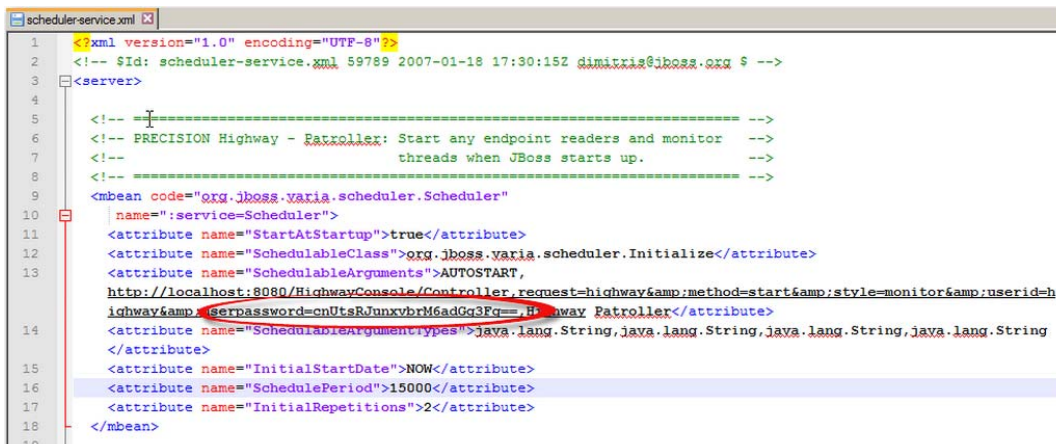
- Endpoint and Server property values held in the Highway database can now be encrypted using the `encryptor.bat` utility.

Fig. 17
Highway with Encrypted Property Values



- Added support to encrypt the Highway password used by the PRECISION Scheduler and defined in the `\conf\scheduler-service.xml` file.

Fig. 18
Scheduler-Service.XML



Listeners

The Progress 4GL Windows registry entries have changed to reflect the new version of WildFly and HornetQ.

Technical

WildFly

- PRECISION Web UI and Highway can be deployed in WildFly 8. A separate document called *Upgrading to Web UI 5.0 from Web UI 4.10* includes additional information and an upgrade path to follow.

The key changes between JBoss 4.2.3 and WildFly 8.2 are listed in Table 4.

Table 4
Key Differences Between JBoss 4.2.3 and WildFly 8.2

Directory Structure	In the WildFly 8 directory structure, Precision EAR files are deployed from: C:\PRECISION\WebUI\wildfly\standalone\deployments PRECISION application dependencies (jar files) are located at: C:\PRECISION\WebUI\wildfly\modules\apps\precision
Classloader	WildFly 8 expects each application to have its own classpath. Jar files are grouped together in modules and the EAR files detail the modules they need. There are two modules defined for PRECISION EAR file: lib and libpsl These can be found in: C:\PRECISION\WebUI\wildfly\modules\apps\precision\lib\main C:\PRECISION\WebUI\wildfly\modules\apps\precision\libpsl\main A module.xml file is used to define the module.
Configuration	The key configuration file is precision-standalone-full.xml. This can be found in: C:\PRECISION\WebUI\wildfly\standalone\configuration This XML details in one place the ports, log4j, properties, and JMS queues. If JMS clustering is required, then precision-standalone-full-ha.xml should be used.
JMS	The JMS component has changed; HornetQ is now used. JMS messages are no longer persisted to a database. Highway JMS setup needs to change to support HornetQ. Data upgrade scripts are available to update existing Highway data to work with WildFly 8 and HornetQ.
Scheduler	There is no WildFly scheduler provided with WildFly 8. A new PRECISION scheduler component has been developed which performs a similar function. This new scheduler will use the same scheduler-service.xml file to determine the requests to kick off when WildFly starts up. The scheduler will look for the XML file in: C:\PRECISION\WebUI\conf
Windows Service	Running WildFly as a Windows service continues to use the Java wrapper component. Given the directory and classloader changes, this conf file differs from the JBoss 4 one.

- JAAS setup has changed under WildFly 8. Any existing JAAS configuration in place will require review to get it to work with Web UI 5.0.
- Log files generated by WildFly 8 will, by default, be created in C:\PRECISION\WebUI\wildfly\standalone\log. The Log Info page (LI) has been updated to look here by default.

- The Spring XSD files are now embedded in the PRECISION EAR file. This ensures WildFly can deploy the Web UI when it has no access to the Internet.

Security

The application has again been tested for possible OWASP Top 10 flaws. This was done by performing both Veracode static and dynamic scans on the PRECISION Web UI solution. Potential vulnerability flaws were reviewed and either corrected or mitigated. Veracode test reports are available upon request.

- Added ability to prevent potential cross-site request forgery vulnerabilities.
- Added ability to prevent Cross-Frame Scripting/Clickjacking vulnerabilities.
- Fixed Authenticated Reflected Cross-site Scripting issues.
- Limited accepted file type for Batch Compliance processing upload to CSV. CSV is the suggested file type by default. Logic checks that the file is not binary before processing.
- Autocomplete can now be disabled on the Login page.

Browser Support/User Interface

- All screens now render correctly, even with IE compatibility mode enabled.
- Web UI and Highway support Internet Explorer (9, 10, and 11), Google Chrome (v42.0), and Mozilla Firefox (v37.0).
- The top links system values now accept a <context> token, which is replaced at run time with the actual context type.

Note Typically the context is “/precision”. If the URL specified begins with “/precision/”, the Web UI tries to replace this with the actual context used.

- Support and content for four additional languages has been added. The new languages are Chinese (Traditional), Japanese, Russian, and Spanish.

Note The language data pack has been uploaded to the released PRECISION v16.0 Master database. Only languages marked as Web languages (XMDLNG0.DLPSL01) will now be listed on the Login and Home pages.

Install

- Application server installed is now WildFly 8.
- Java JRE 1.7.0_75 (32 bit) is now the version of Java used by the Progress 4GL listeners to connect to the JMS queues.

Note Installer now leaves the command used to install the Java component used by the Progress listener in a file called `java-install-command.txt`.

- Default passwords suggested by the installer are encrypted by default.
- Highway database now includes configuration to remove expired messages.
- The JMS queues OUT6 and OUT7 are now defined in WildFly and Highway by default.
- There is no longer an option to indicate a JMS clustering requirement. This requires completion of some manual steps after the Web UI install finishes.

Web UI 4.10

Web UI Enhancements

The current Web UI version is 4.10.0. It contains a number of enhancements.

Rules and Rulebooks Maintenance

There is a new RULES option in the Web UI. Use this option to create and maintain PRECISION rules and rulebooks. The new page provides a Rules tab that displays associated rulebooks. There is also a Rulebooks tab that details rule determination information. Both tabs display the countries, partners, products, and shipment types associated with a selected rulebook.

Fig. 19
Rules Option - Rules Tab

You are here: [Home](#) - Rules And Rulebooks

Rules | Rulebooks

Rule: [] Description: [] Search: [] Configure Engine

Rule	Start Date	Description	End Date	Workflow	Workflo...	User Id	Last Modified
QCTRY-AE	01/01/2001	United Arab Emirates - User maintained					
QCTRY-AF	01/01/2001	Afghanistan - User maintained	28/03/2010			PUE	22-03-2010 07:00:00
QCTRY-AG	01/01/2001	Antigua and Barbuda - User maintained	02/03/2010		L	QCON...	09-03-2010 08:00:00
QCTRY-AI	01/01/2001	Anguilla - User maintained					
QCTRY-AL	01/01/2001	Albania - User maintained					
QCTRY-AM	01/01/2001	Armenia - User maintained					
QCTRY-AN	01/01/2001	Netherlands Antilles - User maintained					
QCTRY-AO	01/01/2001	Angola - User maintained					

Start
Descri
End
Wor

New Copy Delete Documents Sub options Go ...

Rulebooks for Rule

Rulebook: [] Description: [] Search: []

Rulebook	Start Date	Description	Use
----------	------------	-------------	-----

Countries for Rulebook

Countries | Partners | Products | Default Types

Rulebooks	Country	Description	Shipment Type	Comment	User Id	Last Modified	Country C
-----------	---------	-------------	---------------	---------	---------	---------------	-----------

New Delete

Fig. 20
Rules Option - Rulebooks Tab

You are here: [Home](#) - Rules And Rulebooks

Rules **Rulebooks**

Rulebook Description Search Configure Engine

Rulebook	Start Date	Description	User Id	Last Modified
PSL-USA	01/01/2001	United States - User maintained	CMY	08-03-2010 08:00:00
QCTRY-AD	01/01/2001	Andorra - User maintained	QCON...	
QCTRY-AE	01/01/2001	United Arab Emirates - User maintained	QCON...	
QCTRY-AF	01/01/2001	Afghanistan - User maintained	QCON...	
QCTRY-AG	01/01/2001	Antigua and Barbuda - User maintained	QCON...	
QCTRY-AI	01/01/2001	Anguilla - User maintained	QCON...	
QCTRY-AL	01/01/2001	Albania - User maintained	QCON...	
QCTRY-AM	01/01/2001	Armenia - User maintained	QCON...	

New Copy Delete

Rules Determinations for Rulebook

Excepci...	Rule Set	Sequence	Rule	Rulebook	Charge Table	Discount	Tran Client	Consignor	Destination	Place Dest	Origin	Place Of Loading	Payment Terms	Currency
------------	----------	----------	------	----------	--------------	----------	-------------	-----------	-------------	------------	--------	------------------	---------------	----------

New Update Copy Delete

Countries for Rulebook

Countries Partners Products Default Types

Rulebooks	Country	Description	Shipment Type	Comment	User Id	Last Modified
-----------	---------	-------------	---------------	---------	---------	---------------

New Delete

The Rules and Rulebooks page has a number of buttons that enable you to jump to the System Value Setup page [Y3]. The search criteria automatically populate with system values that relate to the rules engine or the shipment types rulebook logic. For example, when you click the Configure Engine button, the page in Figure 21 is loaded.

Fig. 21
System Value Setup

You are here: [Home](#) - [Admin](#) - System Value Setup

Tag Search Database Search

Rules Engine Search

Category Values

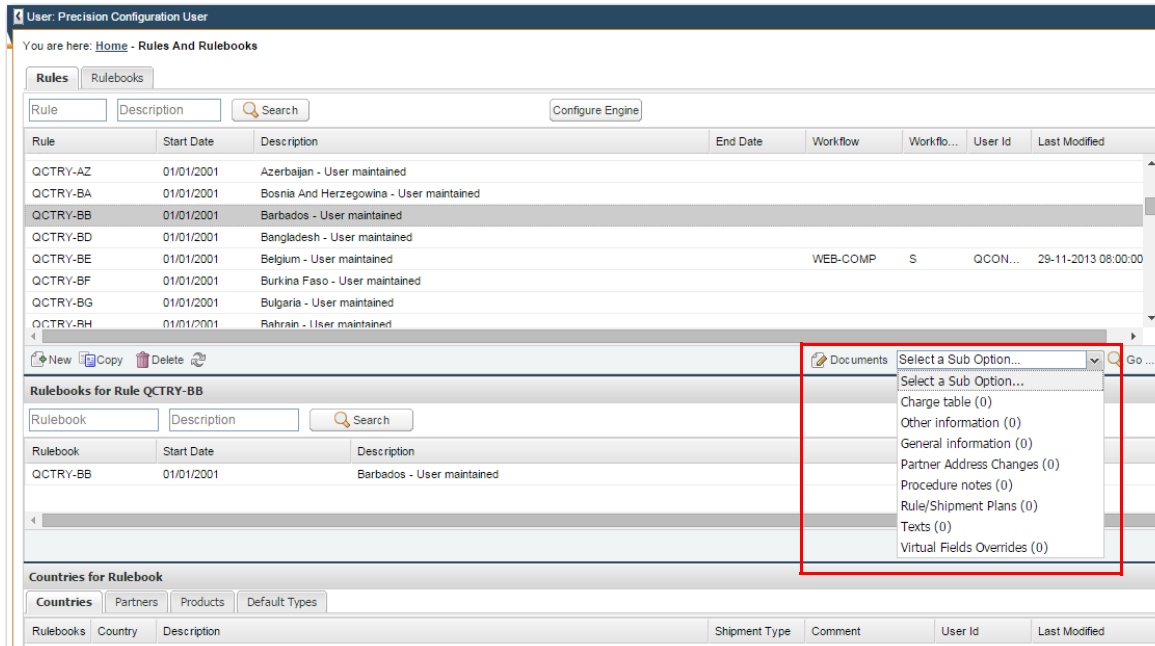
Copy Delete Include Advanced?

Category	Key	Value	User	Client	In Use	Template	Environment
RULES	RESET PRINT COUNTER	yes			true		*STANDARD
RULES	RESET NOTES AND TEXT IDS	YES			true		*STANDARD
RULES	OVERWRITE-WITH-BLANK-RULE-TEXT	no			true		*STANDARD
RULES	OVERWRITE-NON-BLANK-TEXTS	yes			true		*STANDARD
RULES	OVERWRITE SHDSTR	YES			true		*STANDARD
RULES	LETTER OF CREDIT WORKFLOW	LC			true		*STANDARD
RULES	Letter of Credit Ruleset	LC			true		*STANDARD
RULES	LETTER OF CREDIT ACTIVITY	AM2			true		*STANDARD
RULES	DEFAULT-CONTACT-TO-USER	NO			true		*STANDARD
RULES	DEFAULT USER ACTIVITY				true		*STANDARD
RULES	ASSIGN CONSIGNEE TO CUSTOMER	YES			false		*STANDARD
RULES	APPLY PRODUCT RULES	Yes			true		*STANDARD
RULES	APPLY PARTNER ADDRESS LINKS				true		*STANDARD
RULES	APPLY LIC RULES	Yes			true		*STANDARD
RULES	APPLY FULL FILTERING	yes			true		*STANDARD
RULES	APPLY EXPORT REFUND RULES	Yes			true		*STANDARD
RULES	APPLY CUSTOMER RULES	Yes			true		*STANDARD

Page 1 of 1

The Rules and Rulebooks page enables you to open rule sub-option data using the sub-option drop down list, as displayed in Figure 22.

Fig. 22
Rules and Rulebooks Sub-options

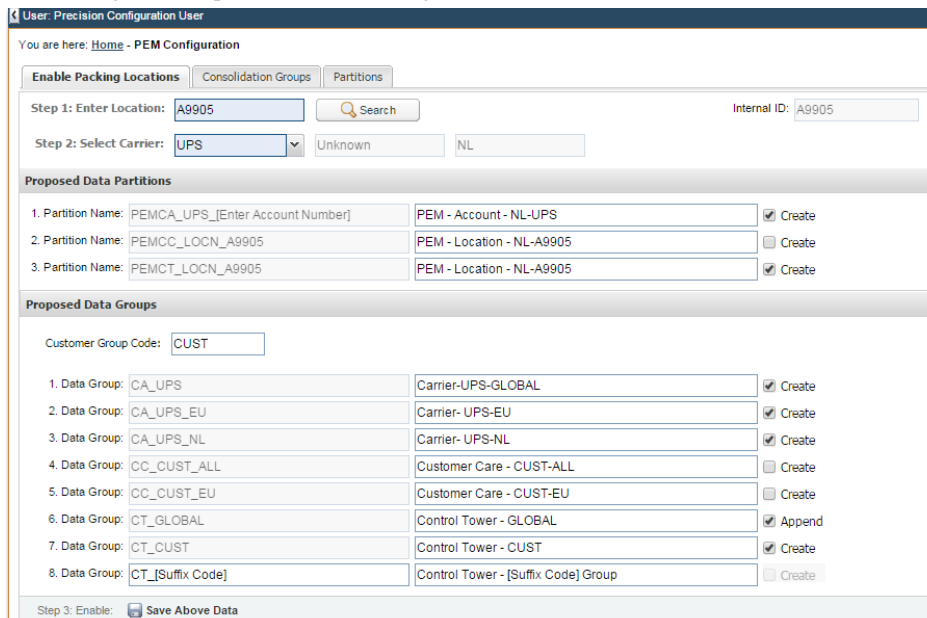


In addition, the RU and RB options now enable you to maintain rule and rulebook records in the same way as the Windows UI.

PEM Maintenance

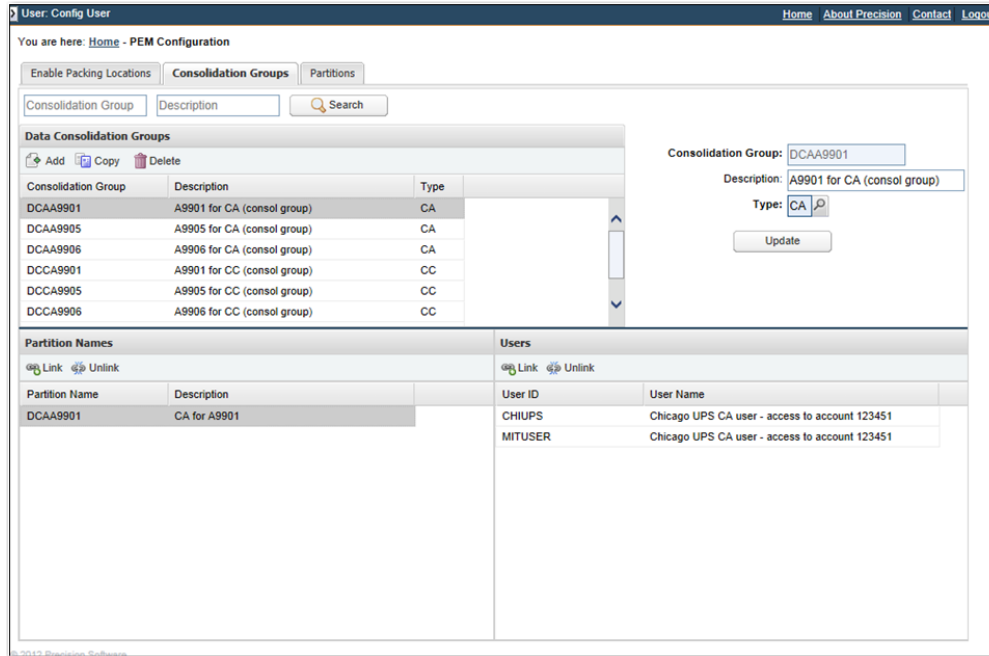
You can now enable packing locations for use with PEM using a new option, PEMCFG. This option enables the administrator to create new partitions and data consolidation groups for a packing location requiring tracking management in PEM.

Fig. 23
PEM Configuration Option - Enable Packing Locations



The new PEMCFG option also enables you to maintain existing data consolidation groups. You can associate or disassociate partitions and users with a data consolidation group.

Fig. 24
 PEM Configuration Option - Consolidation Groups



Using PEMCFG, you can also maintain existing partitions, associating or disassociating data consolidation groups with partitions.

Fig. 25
 PEM Configuration Option - Partitions

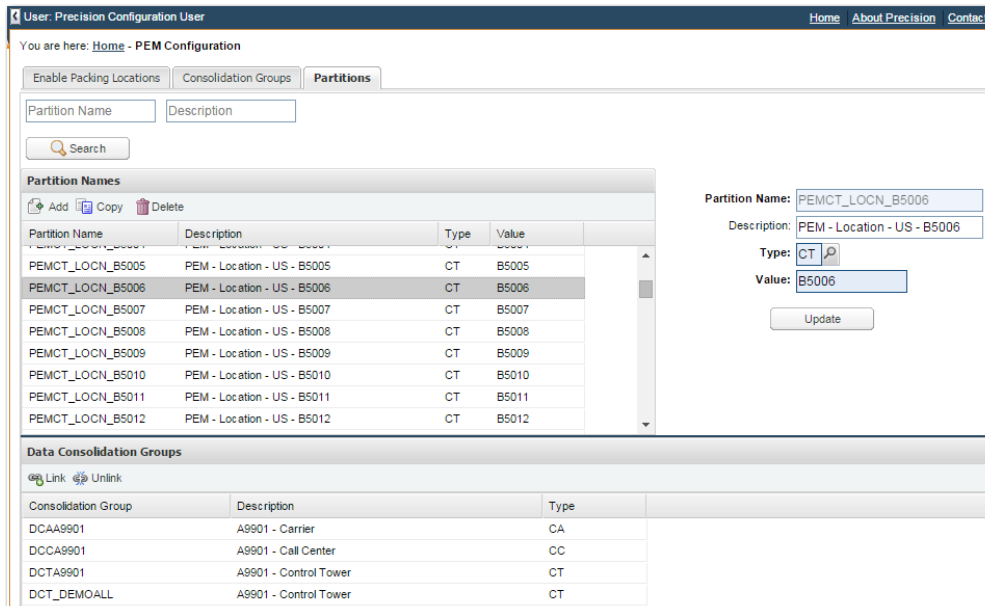
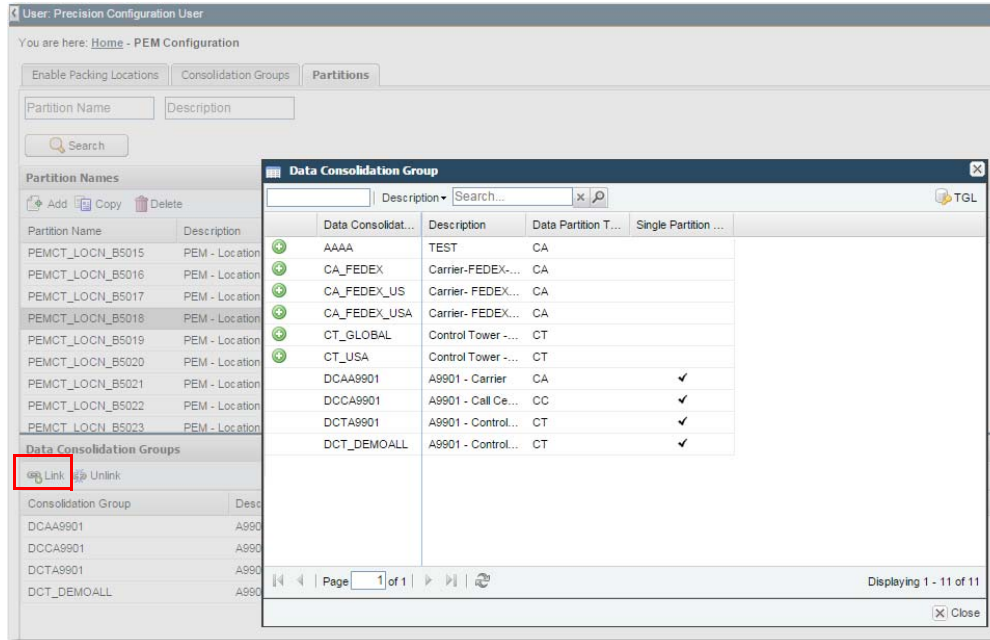


Fig. 26
PEMCFG - Link Data Consolidation Group



Other Enhancements and Fixes

The following issues with the Master Shipping Plan List in option MPH have been fixed:

- Alerts for a given shipping plan are now listed.
- Search fields now default to a blank value.

You can now maintain data consolidation groups in the standard way using option DGC.

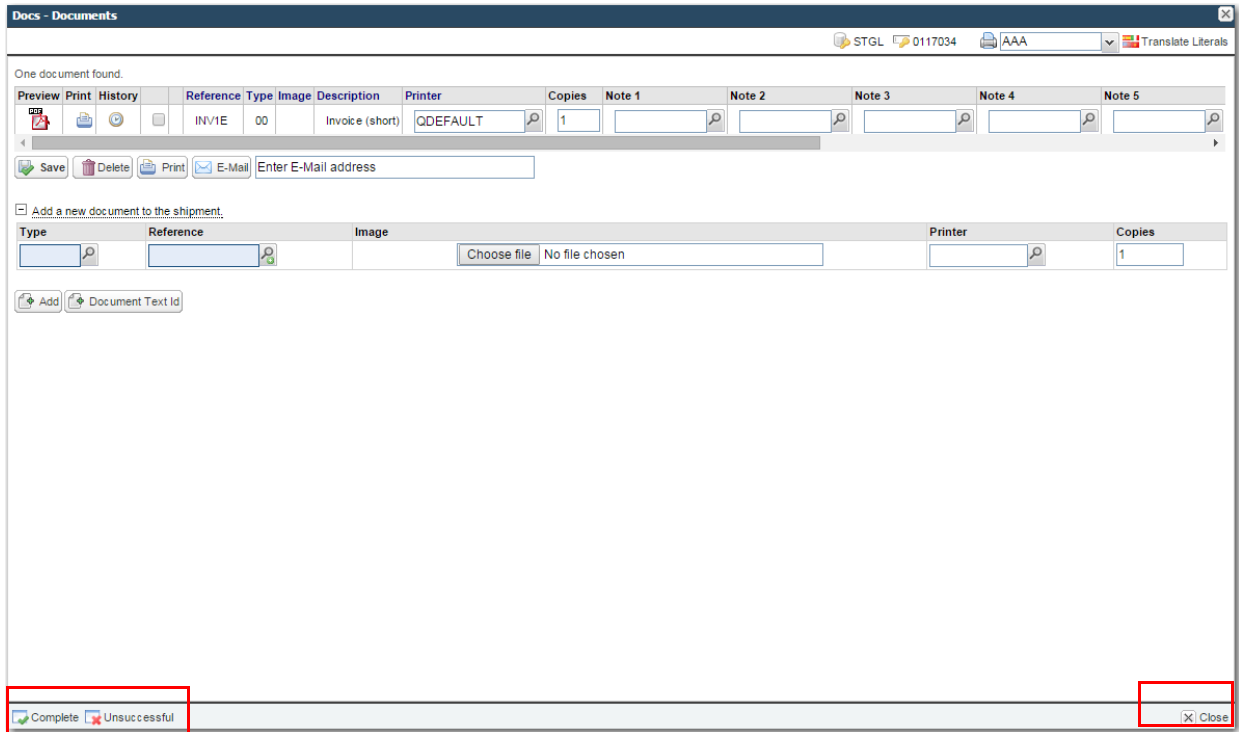
Workflow

A number of refinements have been made to the workflow engine and the Workflow Portal.

The functionality that allows you to confirm the success of a task has been improved, as displayed in Figure 27. When your administrator configures a task so that you can confirm its success, the task pop-up window prompts you to click Complete or Unsuccessful. Tasks that do not require you to confirm success display only the Complete button. You can no longer complete a task by clicking the Close button.

Note This change most likely affects customized projects that introduce customized tasks or modify existing tasks.

Fig. 27
Workflow Tasks - New Buttons

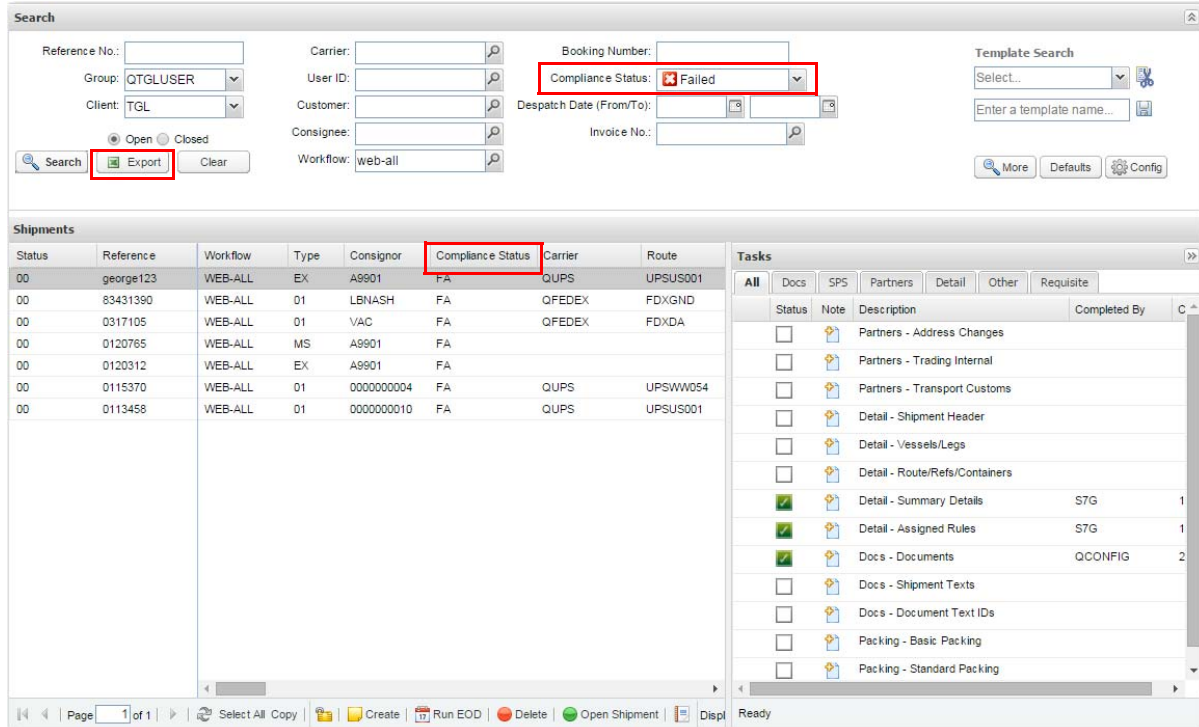


All standard workflow tasks now support standard shortcut keys.

- ESC – Close
- Ctrl-F2 - Complete
- F2 – Key action on the pop-up window; for example, Save

The Search panel displays the shipment compliance status, as displayed in Figure 28. When you click Export, this information also displays in the resulting CSV file.

Fig. 28
Workflow Screen with Compliance Status Information

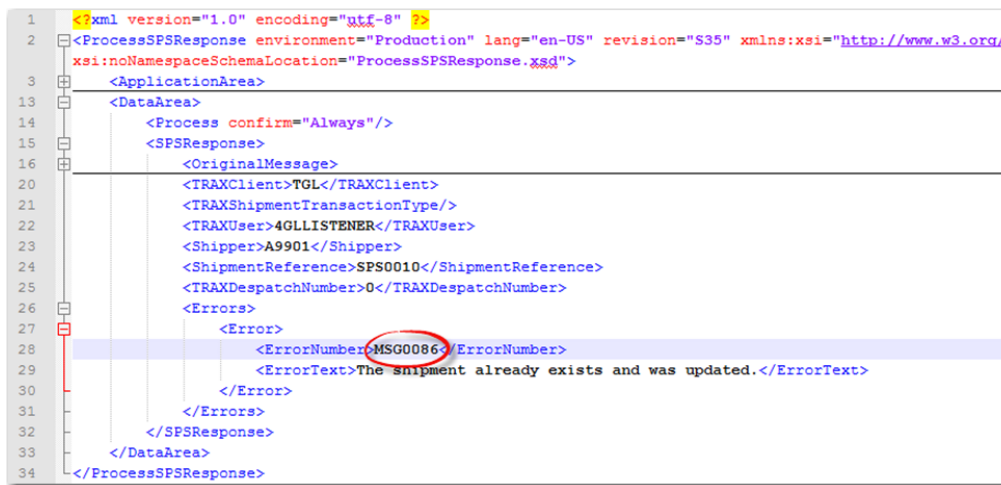


A number of issues with the workflow logic that assigns the shipment status based on the successful or unsuccessful completion of a workflow task have been resolved. An issue where the required shipment status condition is not always enforced when a task is run has also been corrected.

A consistent Close button is now used for pop-up windows.

A technical enhancement has been made to how the Web UI interprets error information returned in ProcessSPSResponse XML responses. If the error number begins with MSG or WARN, the error text is treated as information only. The task is marked as completed successfully and the error text is displayed as an information message to the user.

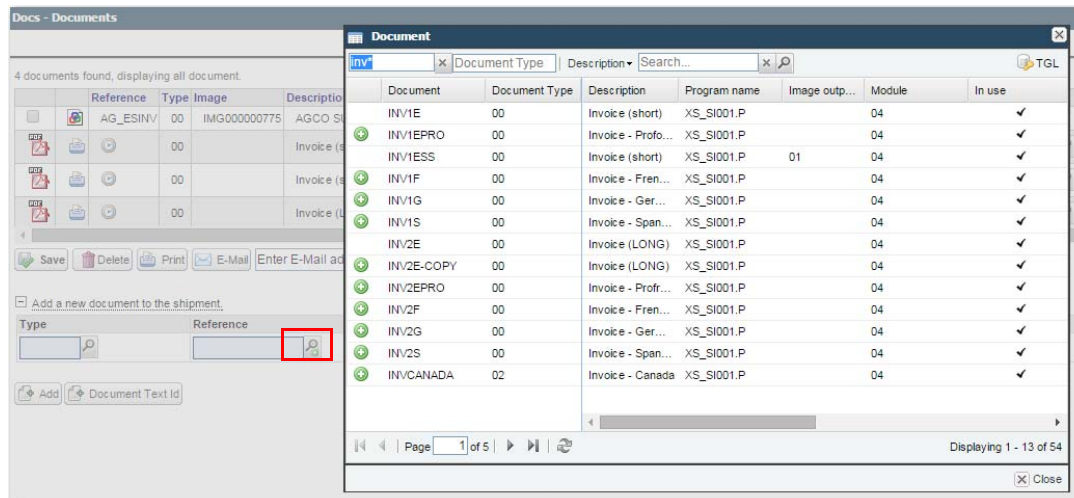
Fig. 29
Error Message XML



Multi-Create Selection Lists

You can now create multiple records using a multi-create feature similar to that available in the Windows UI. This feature is available on the Rules Document page and in the Documents task, as displayed in Figure 30. It is also available on the new PEM Configuration page, where you can associate multiple partitions and users with a data consolidation group.

Fig. 30
Documents Task



Compliance - Questionnaires

You can now create question checks without first having to use the Y3 option to update the QUESTION CHECKS system value. You cannot delete a questionnaire after it is assigned to a transaction.

General User Experience

There have been several improvements to user experience:

- Many forms now perform automatic focus and text selection. For example, the Standard Packing task now focuses and highlights the text automatically in the Quantity to Pack field; you don't need to click in the field. Similarly, selection lists automatically set the focus to the first search field when loaded.
- The Address Changes workflow task employs a number of shortcuts that allow you to select a partner without using a mouse. F4 displays the partner selection list when the Name field is in focus. F2 selects the first record listed in the partner selection list.
- The copy function on maintenance pages now performs a full copy. For example, if a locale is copied, the locale documents are now also copied over to the new locale record.
- The list panels on maintenance pages display more rows than previously. You can also update a list panel record by double-clicking the row. You can now lock columns without distorting the row heights.

Fig. 31
List Panel Records

PRECISION Configuration User

Translate Literals

You are here: Home - Currency

Currency: Search

Currency

Currency	Description	Exchange rate	Customs exchange rate
AA1	b3a1	0	0
AED	UAE Dirham	0.0099	0.0000009
AFN	Afghani	0	0
ALL	Lek	0	0
AMD	Armenian Dram	0	0
ANG	Netherlands Antillean Guilder	0	0
AOA	Kwanza	0	0
ARS	Argentine Peso	0	0
AUD	Australian Dollar	0	0
AWG	Aruban Guilder	0	99
AZN	Azerbaijani Manat	0	0
BAM	Convertible Marks	0	0
BB	Argentine Peso	0	0
BBD	Barbados Dollar	0	0
BDT	Taka	0	0
BGN	Bulgarian Lev	0	0
BHD	Bahraini Dinar	0	0
BIF	Burundi Franc	0	0
BMD	Bermudian Dollar	0	0
BND	Brunei Dollar	0	0
BOB	Boliviano	0	0
BOV	Mvdol	0	0

Page 1 of 8 | Displaying record 1 - 22 of 157

- In previous versions, the last modified date and time were not displayed on maintenance pages. In some cases, the last modified time was not always set when a record was updated. These issues are resolved.
- The following options now use Ext JS maintenance pages: RU, RUR9, RUR3, RUR302, RUR3DL, RURN, RUR6, RUR4, RUR0, RURQ, RUR101, RUR104, DL, RB, RBRR, RBRO, FN, FNFG, DGC, DGP, EN, ENED, WF, WFWT, and WTWP.
- Logos now display instead of text on the Rate Shopping pages for Canada Post, Canpar, DB Schenker, DHL Freight, DHL Global Mail, DHL Express, Hermes, Integra2, Kintetsu, LSi, Nippon Express, OnTrac, Sagawa, Toll, Yamato, and Yamato Global.
- The System Value Setup page now lists all tag type values without paging. The grid resizes to fit the size of the browser window. You can also sort by column, making it easier to group values by client or user, as displayed in Figure 32.
- Issues returning session history information from the log information page are resolved, as displayed in Figure 33.

Fig. 32
System Value Setup - Sort by Column

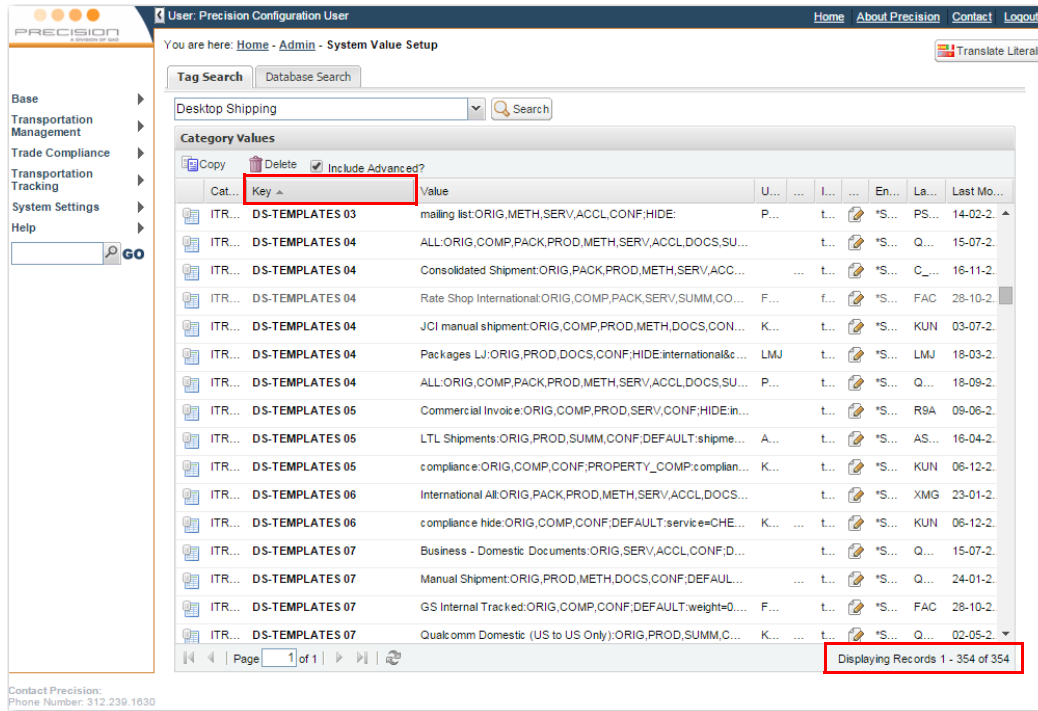
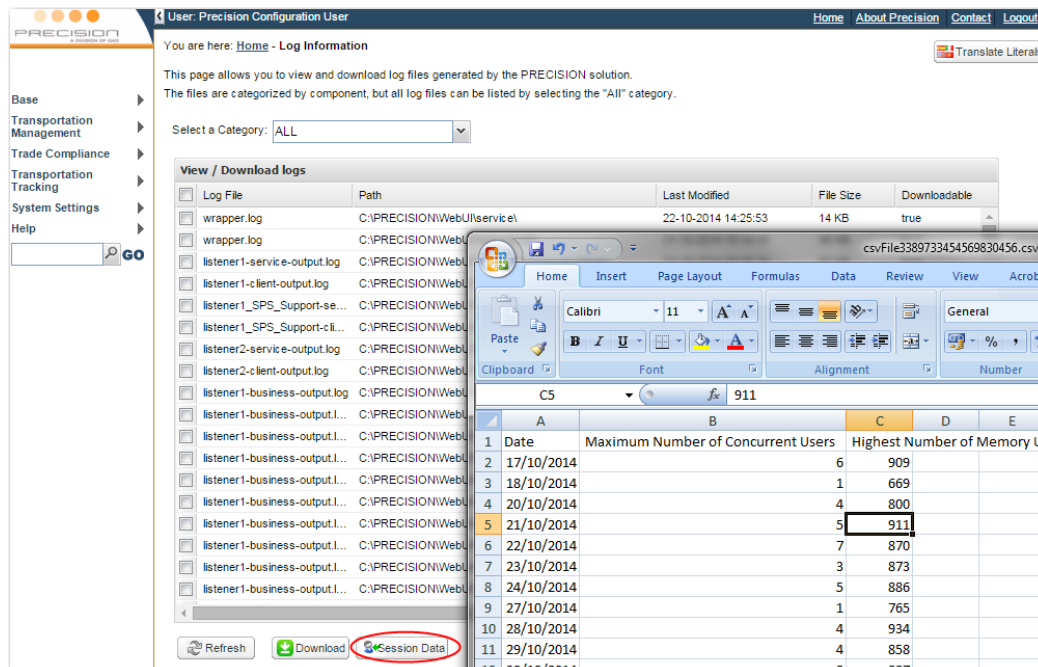


Fig. 33
Log Information Screen

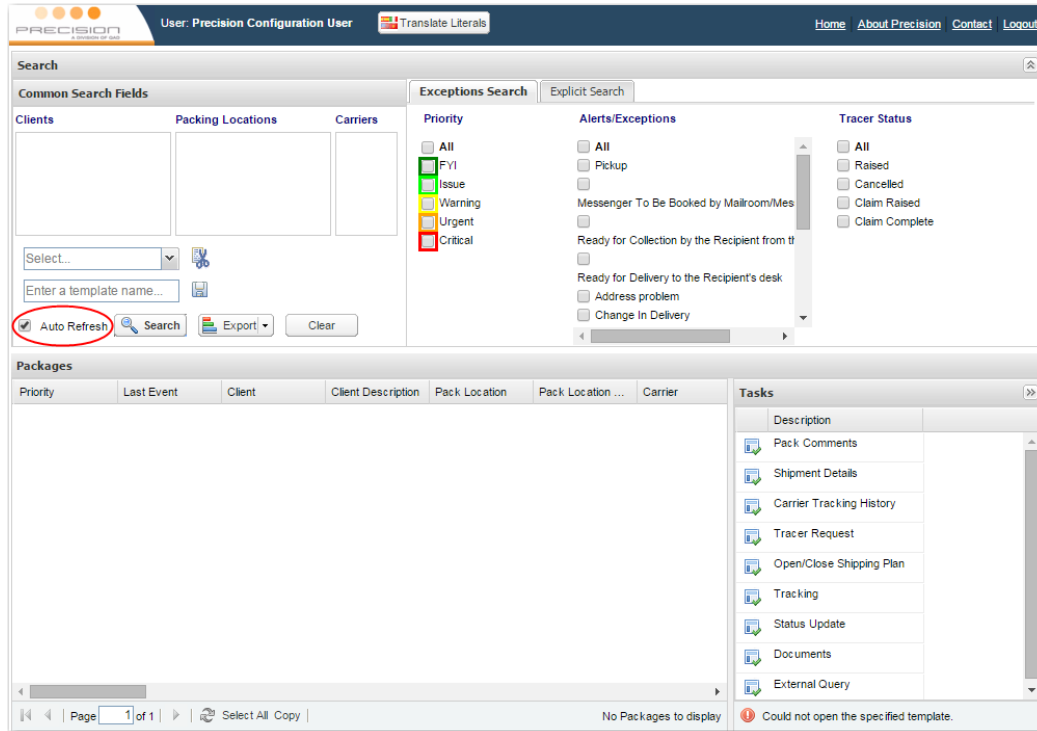


PEM

Web UI 4.10 contains the following enhancements to PEM:

- There is a new integration for DHL Day Definite services.
- You can configure the PEM page to automatically refresh the transaction grid with current data.

Fig. 34
PEM Page - Auto Refresh

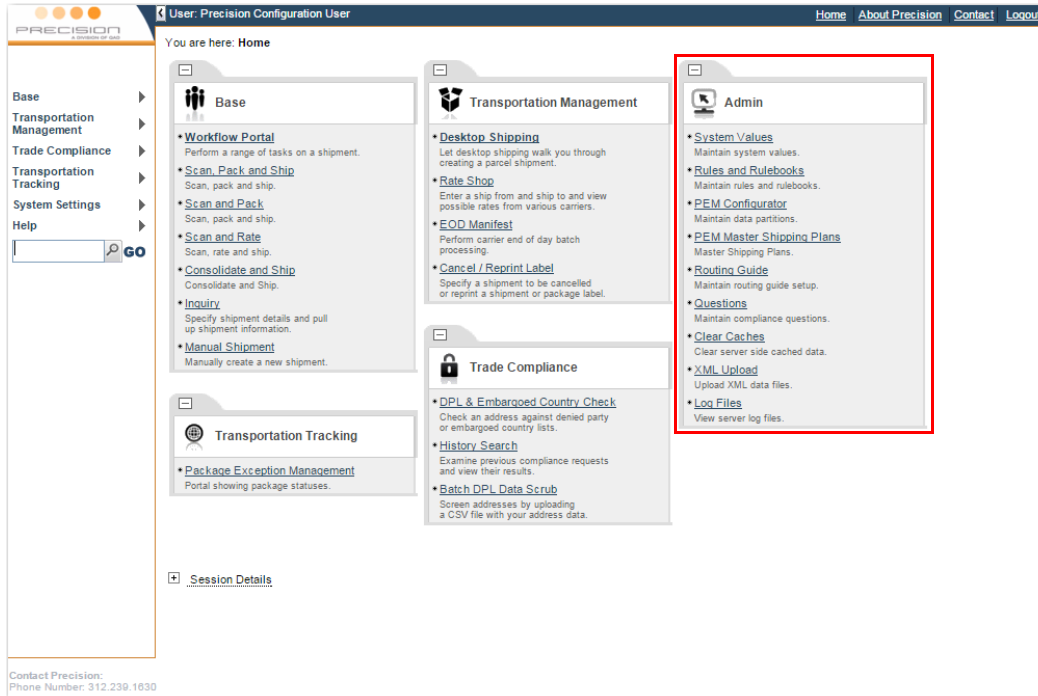


Main

The following enhancements have been made:

- XML data now includes system values for the main page links. There is a new Admin menu reflecting the key administration tasks available in the Web UI, as displayed in Figure 35. The links now leverage the optionrun URL instead of the underlying URL needed to access a specific page.
- When you select an option from the recently visited links area, the option parameters are the same as they were when you last closed the option. This feature was previously known to cause issues, particularly when rerunning the Scan Pack Ship option.
- You can now configure additional links that appear outside the Recently Visited area. A number of invalid links are no longer incorrectly added to the Recently Visited area.

Fig. 35
Admin Menu



Technical

Web UI 4.10 contains the following technical enhancements:

- The log4j logger output is less verbose.
You can now suppress the following [EVENT UNSPECIFIED Anonymous:null@unknown -> ...] by updating the configuration settings in esapi.properties and jboss-log4j.xml.
 - The weighing scales applet is now compatible with Java 5 or higher. This removes the need for Java 7 to be installed on the client machine, as was the case with Web UI 4.9.
 - The Highway and Web UI EAR files have been restructured in accordance with JBoss 7 standards.
- Note** Full support for JBoss 7 will be available with Web UI 5.0.
- There is a new PRECISION Monitor Component. Using this component, you can configure a number of monitor tests to check whether listeners are consuming messages, whether log files are changing, and that no HPROF files are being generated. You can access the test results on a web page and feed the data into a third-party monitoring solution.
 - The system value key for the category GRID-LST, used to remember column order on selection list and list panel grids, has changed.

Example For selection lists, the key used for options is SL_OPTION. For list panels, the key used for options is LP_OPTIONS.

Security

The following security enhancements are included:

- It is now possible to encode password information in the following files:
 - precision.properties
 - highway.properties

- scheduler-service.xml

You can now encode the password in the Highway setting PERSISTENCE_LOCATION. A utility—encryptor.bat—is available to generate an encoded password from a plain text value. You can also encode passwords used in Progress 4GL Listener configuration files.

Note These changes are not released with Web UI 4.10. If you require these changes, request an R03 update to the Windows UI login programs.

- The application has been tested for possible OWASP Top 10 flaws by performing Veracode static and dynamic scans on the PRECISION Web UI solution. Potential vulnerability flaws are either corrected or mitigated. Veracode test reports are available upon request.

Highway

The Highway version is now 3.3.4. The Highway database has not changed with this release.

Endpoints

The following issues have been resolved:

- An issue reading files using the Dachser parser when there was a space in the file name.
- Previously, attached PDF files read from a folder were becoming corrupted when received later as an e-mail attachment.

Note These new services are only fully available with a RAINBOW Web UI build.

Web Services

Web services functionality has been enhanced:

- WSDL and web service logic now include lot allocations information as part of the ProcessSPSResponse response. This data is included in the PackageItem node.
- There are new First Mile/Last Mile PEM web services. There are new PEMCarrierStatusUpdate and PEMPackageCurrentStatus messages.
- A new Highway setting enables you to turn off the automatic creation of faults when there are errors in the response. This is useful when errors are detailing problems but a transaction has still been created.
- Web Service WSDL updates:
 - SPS XSD changes ensure that WSDL is in line with S38 SPS messages.
 - A SOAP fault is no longer returned as the response to an asynchronous message request.
- A WSDL issue where the ProcessShipment XSD is missing a parameter sequence node is resolved.
- A WSDL issue where some XSDs have no MinOccurs set, resulting in a default of 1 instead of 0, is resolved.

Installer Changes

Installer changes include the following:

- Refinement of the JDBC connection pool properties.
 - precision.db1.minevictableidletimemillis is now set to 600000.
 - precision.db1.maxidle is set to 10 when the database is Open Edge.
- The WrapperJBossService.conf file contains new Java garbage collection parameters.

- It is now possible to enable Remote JMX.

The default JBoss Web and JMX Console passwords have changed.

PRECISION TMS/QAD Freight Management S39

Application Enhancements

Black Box—Message Changes

- ShipShipment/CreateShipment
 - You cannot use the BILLTO and IMPORTER parties in the same message because they both map to the same party type in PRECISION.
 - The pack must contain one of the following: Pack Type, Weight, Volume, or Dimensions.
 - If the weight of the item record constitutes the total weight, then the application does not multiply it by the weight of the number of items in the pack.
 - The COD currency value is now stored in a virtual field because it may be different than the shipment currency.
 - The messages now recognize new accessorial types: CarrierAccessPoint, ChainOfSignature, DirectDelivery, and LatePickup.
 - Now allows a timeout if the Partner record creation process locks.
- ProcessSPSResponse
 - The message returns the packing location and service because these may have been updated by the Routing Guide service assignment.
 - The message returns the lot allocations, if available.

End of Day Process

- Corrections were made to the processing for LOCKED and UNLOCKED batches when running EOD for a carrier/location. The application now ensures that the carrier/location is correctly UNLOCKED.
- The application now updates the batch date (GRDATE) field to record the date on which the batch was created.

LTL—Check Digits Added

Added support for check digits for the following:

- ARFW (Canada FedEx Freight Air)
- CGVO (CCT Canada)
- DARO (Canada Day and Ross)
- OVLD (Overland Express)
- TGBT (Canada Guilbault Group)

For a full list of supported LTL check digits, see *Topic 045—Supported TL-LTL Carriers.xls*.

LTL—Generic Label and Manifest

- Ensures that all address lines for the shipper are printed on the label.
- Ensures that all address lines for the recipient are printed on the label.
- Removes any hyphens from the postcode, before adding hyphens for US zip codes.

Rate and Transit Time Maintenance

You can now upload Excel files if only Open Office is available on the application server.

Tiered Structure Excel Upload

- You can now use a reserved To Zone called RESTOFTHEWORLD.
- You can now create a comma-separated list of cities in the zones definition.

Flat Structure Excel Upload

- Corrected an issue that occurred when an existing axis structure was re-used.
- The upload now creates charge detail records in the same sequence as that of the Excel file.

Routing Guide

- The Routing Guide does not apply the Max Preference comparison, unless the routing results contain one of a specific set of services.
- Performance has been improved for the caching of Routing Guide rules.

For more information on the Routing Guide, see *Topic040 - Routing Guide and Rate Shopping.doc*.

General Enhancements

- If the country code passed to PRECISION is FR (France), the appropriate ISO country code for a French Territory is determined based on the postal code.
- Now correctly assigns the BKTSID record to the XMBKTS0 records generated at manifest time.

Carrier-Specific Enhancements

This release supports a number of additional carrier-specific features.

Bpost

Bpost is a new carrier. For more details, see the Functionality Guide for the carrier.

Canada Post

- Met the Canada Post compliance requirements for 2014 and 2015 changes, including labeling and end-of-day file requirements.
- All error messages now include unique error codes.

Canpar

- Validates that the Canadian post code is correct for the selected province.
- The rating now includes Extended Area Surcharge determination.

Ciblex

C-DISPO has been added to the list of supported products and services for this carrier.

DB Schenker (German Origin)

- The label formats were adjusted based on carrier feedback.
- The manifest file now allows SFTP transmission.
- As a result of carrier feedback, field mapping changes were made to the manifest file.
- The international routing determination is now based on the origin branch number.
- Updates were made to the domestic routing determination algorithm.
- You can now use the freight payment methods Collect and Third Party.
- All error messages now include unique error codes.

DHL—Express (SAS Version, US Origin)

- You can now change the FTP directory when uploading an EOD file to the DHL FTP site.
- The Paperless Clearance functionality is now configurable and can be run as part of the EOD process instead of at shipping time.
- The Paperless Clearance functionality was updated to comply with WSDL changes on the DHL back-end.
- The performance of the routing determination query for postal codes for Mexican destinations was improved.
- The routing determination now uses the DHL country code instead of the ISO country code when looking up DHL data. The DHL country code may differ from the ISO country code.

DHL—Day Definite (Non-US)

- Now includes support for Spain origin for domestic shipping.
- For the manifest file, the application now determines if a batch needs to be split into multiple batches due to constraints on the number of shipments accepted by DHL in a single file.

DHL—Packet Services

- Weltpaket services have been added to the list of supported products and services for this carrier. For more details, see the Functionality Guide for the carrier.
- The sequential section of the tracking number can now be longer than five digits if the prefix is shorter than 16 characters.

DHL—Global Mail (US Origin)

- International services have been added to the list of supported products and services for this carrier. For more details, see the Functionality Guide for the carrier.
- Now includes support for dangerous goods labeling and end-of-day file requirements.
- All error messages now include unique error codes.

DHL—Time Definite (Non-US)

Labels

- The application now prevents errors when calculating the currency exchange.
- Now outputs information regarding limited quantities.
- The format of dangerous goods information was updated.

- The application now splits the description of the lithium battery text across two lines if the text is too long.

Manifest File

- Now recalculates the BBX master totals based on the child shipments associated with the master.
- Third Party billing for SG and FR origins is now mapped in a similar way to the Collect freight payment method.

Validation

- You can now use WPX for intra-EU shipments, if approved by the carrier.
- Corrected the validation rules for allowed delivery terms, based on the origin or destination.
- Post codes are no longer required for Lebanon destinations.
- You must now enter a customs value for the WPX service.

Rating

The default dimensional weight factor has changed from 6000 to 5000.

Tracking Numbers

You can now configure the tracking number threshold value per internal ID, instead of globally across the whole carrier.

DHL—XML PI Integration

Services

- BBX (Breakbulk) has been added to the list of supported products and services.
- Now supports the Domestic Express 09:00 (DOK), Domestic Express 10:30 (DOL), and Domestic Express 12:00 (DOT) services.

Labels

- The archive label does not print for any service, except WPX.
- The application now prints the codes of any special services applicable to the shipment on the archive label.
- The output of the billing account, duty account, declared value, and terms of trade to the archive label was corrected.
- The application now allows you to print DHL-generated labels instead of PRECISION-generated labels.

XML Mapping

- The application does not map the ExportDeclaration node, unless the shipment is dutiable. The criteria that determine whether a shipment is considered dutiable were also corrected.
- The mapping sequence for package dimensions for the Europe/Asia schema was corrected.
- The application no longer maps references at package level because this leads to errors on the DHL back-end.
- The characters sent in the message were normalized because the DHL back-end cannot process certain characters.

Rating

The application now allows you to plug in a customized charge table to take precedence over rates returned from the DHL back-end.

Transit Time

- By default, the application calls the DHL back-end to validate the service and to return transit times, unless you configure a system value to override this default.
- Corrected the handling of transit times of less than 10:00. A shorter string is now returned from the DHL back-end.

Error Codes

All error messages now include unique error codes.

DPD

- B2C services were added to the list of supported products and services for this carrier.
- The printed depot code can now differ from the routing depot code on labels.

Manifest File

- You can now specify an FTP destination directory for a location.
- For some origin countries, the characters sent in the EOD file were normalized because some DPD back-end FTP sites do not accept accented characters.
- The PickupTime field has been extended to six characters.
- Now maps the second recipient address line to the EOD file, if present.

DPD UK (Formerly Parceline)

You can now use the DPD Classic service for exports outside of Europe.

Manifest File

- You can now create a “poll” directory, where the file uses the same naming convention as at the carrier’s FTP site. This means that, when the manifest file is created, you can move a separate copy of the file to an alternative directory structure (“poll” directory), and the file name of the copied file will then share the same naming convention as the file on the carrier’s FTP site.
- Ensures that the “68” section is always at the end of the manifest file.
- Now maps the SMS Phone and Email and the Shipper Address fields.

Routing

- The search criteria now correctly determine the appropriate routing code.
- The application now blocks errors created during the determination of routing data if the carrier data does not contain all routing content fields.

Endicia

XML Mapping

- The application changes the value Zip4 to ZIP4 for any field to address issues due to case sensitivity.

- XML Mapping: Based on the type of International form (2976 or 2976a), you can print to either a thermal printer or a laser printer. When the form is short enough, you print it on a thermal label printer. Longer versions of the forms must always be printed on a laser printer.
- Does not map the ampersand (&) value in the shipper name due to an error in the back-end.
- Rate requests now only accept the first five digits of the zip code (nine digits are not allowed)
- The AccountID field has been extended to accept seven characters.
- The conversion for mapping item weights from pounds (lbs) to ounces (ozs) has been corrected.
- You can now specify a different/configurable test URL for requests to the Endicia back-end.
- All error messages now include unique error codes.

FedEx

FSMS

- Certified for compatibility with FSMS V14.0x. For more details, see the Functionality Guide for the carrier.
- Now includes carrier-requested changes for handling the IPD multi-port service.
- When shipping from the US, the currency code must always be USD for AES purposes. The application converts the currency to USD, where applicable.
- Units of measure are now mapped correctly for commodity line information.
- The Electronic Trade Document (ETD) functionality now allows FedEx to generate the commercial invoice instead of using the document passed from the PRECISION application.
- You can now set field 2600 to indicate MPS (Multi-Piece Shipping) for US Domestic Express or Ground shipments.
- You can now use the Priority Overnight service domestically for NL and FR origins.
- The application now retrieves the transit time result from FSMS, even if the shipment fails to rate.

Web Services

- Now handles EOD documents with multiple pages.
- Correctly maps the unit of measure for commodity line information.
- You can now specify separate configuration system values for Test and Production.
- The request and reply root nodes in XML messages for Return services have been corrected.
- You can now print international documents from the FedEx back-end, if required.

Paper Manifest

If the shipper needs to generate a PRECISION document for a FedEx batch, you can now configure a generic paper manifest.

Error Codes

All error messages now include unique error codes.

GLS

For the manifest file, you can associate the GLS account with a specific country other than the shipper country. This change may affect how fields are mapped to the GLS-BOX or the GLS back-end.

Hermes (Germany Origin)

- Some small label changes were made to comply with current carrier requirements.
- The application now outputs the COD amount to the label when the amount value is needed for a COD shipment.

Itella

Itella is a new carrier. For more details, see the Functionality Guide for the carrier.

Kintetsu Worldwide Express

Kintetsu Worldwide Express is a new carrier. For more details, see the Functionality Guide for the carrier.

Loomis (Formerly DHL Canada)

- For the manifest file, the weight conversion is used for all shipments in a batch, if required.
- Removed the reference to the invalid paper manifest document for Loomis as part of the EOD options for this carrier.
- The rating process now uses the new accessorial codes: IR (Remote Area Surcharge) and MW (Manual Waybill Fee).

LSi Logistik

All error messages now include unique error codes.

Nippon Express (Japan)

- For the manifest file, the PLD directory locations must be the same for all packing locations. The system values were made more generic.
- All error messages now include unique error codes.

OnTrac

For the manifest file, only the first five digits of zip code are passed to the OnTrac back-end.

PostNL

- The manifest file now allows field values to be longer than the carrier maximum lengths (and truncates longer field values).
- It is now mandatory to specify an e-mail address when using the COD freight payment method.

PostNL (Mijnpost)

PostNL is a new carrier. For more details, see the Functionality Guide for the carrier.

Purolator (Legacy—US Origin)

- Now correctly outputs the dangerous goods icon to labels for multi-piece shipments. The icon is only output for packages that contain dangerous goods instead of for all packages.
- The rating now calculates an additional handling charge, when applicable.

Note This integration is scheduled for retirement at the end of 2015.

Purolator (New World—CA Origin)

Certified for compatibility with V9 specifications. For more details, see the Functionality Guide for the carrier.

Puopost

Puopost is a new carrier. For more details, see the Functionality Guide for the carrier.

Royal Mail

Paper Manifest

Two additional columns are output to the paper manifest—Package Type and Average Weight.

Labels

- The output now returns the shipper name.
- The output weight is stated to the nearest 0.1 Kg instead of to the nearest 0.5 Kg.
- The text now prints “Parcel” instead of “Package” as the default package type.

Rating

You can now use Business rate structures.

Sagawa

- You can now print a PDF version of the label for testing purposes.
- For the manifest file, the PLD directory locations must be the same for all packing locations. The system values were made more generic.

Seibu

The PLD directory locations in the manifest file must be the same for all packing locations. The system values were made more generic.

SF Express

SF Express is a new carrier. For more details, see the Functionality Guide for the carrier.

TNT—Express Label and Unicom

Labels

- You can now configure shipment references per packing location.
- The application now correctly sequences depot codes, and outputs the number of days for transit depots.
- Standardized the program for the Lithium Battery document to comply with current lithium battery requirements.

- In the Summary Manifest document, if the delivery address is available, the application uses this address instead of the receiver (customer) address.
- Calls to the TNT transit time were corrected due to changes on the TNT back-end.

IDE Processing

- You can now create a secondary shipment using the Seibu carrier service when shipping to Japan (if required by the TNT implementation).
- The application now supports the DNI (Direct Infeed) service.

Manifest File

- Changes were added for the latest lithium battery requirements.
- Hazardous shipments now take priority over dry ice shipments.
- The application now converts special characters not accepted by the ExpressLabel or NFF file.

Validation

- The validation now recognizes that not all countries require the postal code to be mapped to an ExpressLabel.
- The application now returns an error if the countries of the delivery address and the receiver address are different.

Performance

The caching performance was improved for multi-package shipments.

Services

- A Late Pickup flag can now be set in the system values. Contact the Precision TMS Content team to request this setting.
- A Packing List flag can now be set in the system values. Contact the Precision TMS Content team to request this setting.
- Now supports ES domestic services.
- Connote Document: Additional conditions were added to determine when to print Connote documents. The conditions for printing are:
 - If one of the following dangerous goods options is associated with the shipment: LQ, EQ, HZ, or LB.
 - If TNT have identified an additional service option for Connote documents, and this option is configured using the UTNT: PRINT CONNOTE OPTIONS system value.
- Error Handling: The application can now handle large ExpressLabel XML requests and responses generated to process large shipments.

TNT—Express Manager Version

This carrier is no longer supported for the new implementation of accounts.

TNT—iConnections Version

This carrier is no longer supported.

TNT Express—France Domestic (Formerly Jet Services)

- Met TNT France domestic compliance requirements for 2015 changes (labeling and end-of-day file requirements).
- A Domicile service has been added to the list of supported products and services for this carrier. A COD freight payment method was also added. For more details, see the Functionality Guide for the carrier.
- The labels and manifests now print the appropriate information for dangerous goods, lithium batteries, and limited quantities.
- Now allows you to print an alternative return address on a label.
- Corrects the name of the paper manifest document referenced for printing in the EOD process.
- The application now validates that the destination country is FR (France).

Trans-o-flex

Label

- Ensures that the recipient address uses the maximum number of available lines (five).
- Outputs the relative package count on the label (for example, 1/3, 2/3, 3/3).

Manifest File

- You can now map dangerous goods information in the file.
- You can now deactivate the normalization of characters for the EOD file, if requested by the carrier.
- The system no longer outputs blank address lines to the file.

Validation

- German-based accounts can now ship internationally to the Netherlands.
- The receiver name can now be longer than 30 characters.
- The application now gives warnings for zero-value package weights.
- Multiple accounts can now share the same tracking number range.

UPS

Certified for compatibility with 2015 requirements. For more details, see the Functionality Guide for the carrier.

Label

- The COD amount for EU origin is only output for the first package.
- Uses the COD text when Check is selected as the COD payment method.
- Always prints SHP DWT for Canada origins.
- Ensures that the tracking number is present in the PDF-417 bar code, when printed.
- You can now suppress the PDF-417 bar code label for Paperless Invoices, if this is allowed by UPS.

Manifest File

The application now replaces special characters with blanks when outputting data to file.

Services

- Now supports Qatar, Switzerland, and Romania origins.
- Now includes support for South Africa domestic shipping.

Validation

- You cannot use Paperless Invoice for Surepost or Mail Innovations.
- Returns are now allowed for the Free Domicile freight payment method.

Rating

- You cannot use dimensional weights for Surepost.
- You can now use customer-specific rates for Surepost.
- The application now applies the appropriate Delivery Area Surcharge for Surepost.
- The application now determines the correct zone for Canada Economy service, when used.
- For non-US48 destinations using Surepost, the application determines the zone explicitly within the integration program.
- The extended area surcharge determination for Alaska and Hawaii was corrected.

Routing

The routing now uses France routing data for Monaco destination addresses.

Transit Time

- The Transit Time API can now be called for US domestic shipping.
- The transit time can now be returned for rate shop, even if the rating fails.
- The HTTP method for accessing the API was corrected.
- If no currency or value is present, the application now uses default values to bypass UPS validation.

USPS

MAC Certification has been retired; and is no longer supported. Use Endicia integration instead.

Wim Bosman

The dimensions are now output in the manifest file, if available.

Yamato Express

In the manifest file, the PLD directory locations must be the same for all packing locations. The system values have been made more generic.

Yamato Global Express

In the manifest file, the PLD directory locations should be the same for all packing locations. The system values have been made more generic.

Windows UI Changes

Precision v16.0 contains Windows UI enhancements and fixes to Base, TMS, and Trade Compliance.

Functionality	Enhancement
Base	<p>If you do not specify a language code on the Login page, the language code is taken from your user record.</p> <p>When using the XML tool to download or upload files it is now possible to use UNC path names.</p> <p>The handling of messages that do not fit in dialog boxes has been improved.</p> <p>When copying a language, it is possible to copy all associated literals and messages.</p> <p>A new XML option is available at transaction (shipment) level. It can generate XML for some of the master data associated with the transaction; for example, rules, partners, and products. This option is useful when working with Support.</p> <p>The archive tool can now purge PEM transactions without removing shipments.</p> <p>Highway listeners can now reconnect after a database connection is lost.</p> <p>A user listing with last login date is now available as a UCA report.</p>
TMS	<p>When uploading LTL rates from a spreadsheet, the system can support sheets with more than 256 columns.</p>
Trade Compliance	<p>Previously, Dual Use (ECLI) screening failed if a license was added to a shipment item and PRECISION had not failed the item. Now, it is possible to configure the system to allow licenses to be added to item lines that have not failed the Dual Use check.</p> <p>For Dual Use screening, the country from the ultimate consignee is now considered when determining whether a license is required.</p>

Functionality	Fix
Base	<p>Previously, when maintaining information for a product using Hazmat - NAFTA - Transportation - Advanced screen (PRHZ02) behind a product, the lookups were not working correctly. This issue is resolved.</p> <p>Previously, the grid listing documents on the shipment document task did not display document image entries when the image had been removed. This issue is resolved.</p> <p>The custom filter fields in Dataflow no longer truncate values greater than eight characters.</p> <p>A “program not found error” when running standard reports has been resolved.</p> <p>Previously, the warning “xtgetseq.p warning: This procedure call should be done outside a transaction scope. Caller ‘proc-run-comp xtckcomp.p’” sometimes appeared when consolidating transactions in Dataflow. This issue is resolved.</p> <p>In XML Upload, when multiple files are dragged into a grid, they now upload in alphabetical sequence.</p> <p>In the SLI (Shipper’s Letter of Instruction), the correct point (state) of origin now appears.</p> <p>Previously, when maintaining partner address overrides for rules and using the multi-create feature, it was possible to create entries with blank names. This issue has been corrected.</p> <p>In XML Upload, it is now possible to increase the width of the window. This fix allows you to see the complete file path in the File(s) field.</p> <p>In Dataflow, the carrier field (shshpc) caused problems when used as a unique shipment field. This issue is resolved.</p> <p>An issue, where the Listeners locked when document imaging was used, is resolved.</p> <p>Previously, the Available Options tab did not show options when a custom language was used. This issue is resolved.</p> <p>The Password field on the Login screen was extended to sixteen characters.</p>

Functionality	Fix
TMS	<p>Previously, error-checking in Rate Maintenance (RM) incorrectly flagged some values of the To Date field as dates before the From Date field value. This issue is resolved.</p> <p>Single digit transit days are now handled correctly.</p> <p>The City field in Routing Guide Maintenance now accepts spaces.</p> <p>Load Build (xtbuild.exe) can now run on Windows 2008.</p> <p>Previously, in Routing Guide Maintenance, the Delete and Create icons did not show when using a language other than English. This issue is resolved.</p>
Trade Compliance	<p>Commodity data integrity checks now check effective and expiry dates on commodity master records.</p>

Technical Information

Application Server

Progress OpenEdge ABL

The supported version of OpenEdge is 11.4.

Java

The default Java application server is WildFly 8.2.

Operating System

Windows Server 2012 R2 is supported as an application server for all database platforms. The previous restriction of deploying on Windows Server 2008 R2 when using the SQL Server 2012 database has been removed.

Database Platforms

The supported database platforms are:

- Oracle 12c
- OpenEdge 11.4
- Microsoft SQL Server 2012